

NINETEENTH REPORT

(Seven annual, twelve biennial.)

OF THE

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OF THE

UNIVERSITY OF ILLINOIS

[POST-OFFICE, URBANA OR CHAMPAIGN, ILLINOIS.]

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FOR THE TWO YEARS ENDING SEPTEMBER 30, 1898.

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SPRINGFIELD, ILL.  
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1898.



UNIVERSITY OF ILLINOIS,

URBANA, November 1, 1898.

HON. JOHN R. TANNER, *Governor of Illinois*,

SIR:—I have the honor to submit to you herewith, in compliance with the law, the nineteenth report of the Trustees of the University of Illinois, for the two years ending September 30, 1898.

I am, very respectfully, your obedient servant,

WILLIAM L. PILLSBURY,

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RESIDENT GRADUATES.....	13	2	15
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Seniors.....	88	11	99
Juniors.....	92	10	102
Sophomores.....	125	28	153
Freshmen.....	147	34	181
Specials.....	40	51	91
Total.....	542	141	683
WINTER SCHOOL IN AGRICULTURE.....	15	1	16
STUDENTS AND INVESTIGATORS AT BIOLOGICAL STATION.....	15	2	17
SCHOOL OF PHARMACY—			
Seniors.....	54	3	57
Juniors.....	121	3	124
Total.....	175	6	181
PREPARATORY SCHOOL.....	136	43	179
	883	193	1,076
Deduct counted twice.....	1		1
Total in University.....	882	193	1,075

*Summary of Students—1897-98.*

	Men.	Women.	Total.
GRADUATE SCHOOL.....	57	5	62
RESIDENT GRADUATES.....	9	7	16
COLLEGES—			
Seniors.....	83	10	93
Juniors.....	93	30	123
Sophomores.....	117	21	138
Freshmen.....	173	44	217
Specials.....	72	53	125
Total.....	604	170	774
WINTER SCHOOL IN AGRICULTURE.....	23		23
LAW SCHOOL—			
First year.....	33	2	35
Third year.....	4		4
Total.....	37	2	39
SCHOOL OF MEDICINE—			
Seniors.....	121	4	125
Juniors.....	98	6	104
Sophomores.....	88	1	89
Freshmen.....	84	6	90
Total.....	391	17	408
SCHOOL OF PHARMACY—			
Seniors.....	48	2	50
Juniors.....	89		89
Special.....	1		1
Total.....	138	2	140
PREPARATORY SCHOOL.....	145	54	199
	1,338	245	1,583
Deduct counted twice.....	1		1
Total in University.....	1,337	245	1,582



**PROCEEDINGS**  
OF THE  
**BOARD OF TRUSTEES**  
OF THE  
**UNIVERSITY OF ILLINOIS,**  
FOR THE  
**Year Ending August 31, 1897.**

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MEETING OF SEPTEMBER 15, 1896.

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The Board of Trustees of the University of Illinois met in the President's office at the University, in Urbana, Illinois, at 3 o'clock p. m. Tuesday, September 15, 1896.

The members present were Messrs. Armstrong, Bullard, Graham, Inglis, McLean, Morgan, Morrison, and Raymond and Dr. Smith; those absent were Governor Altgeld, Mr. Judy, and Mrs. Flower.

The minutes of the regular meeting of the Board held June 9, and of the special meeting held June 26, 1896, were approved. The Secretary was directed to add to the statement in the minutes of June 26th with regard to the quashing of the indictment found against the members of the Board of Trustees under the flag law, that the indictment was quashed by Judge Wright on the ground that he held the law to be unconstitutional.

President Draper presented the following paper:

DESTRUCTION OF CHEMICAL LABORATORY.

*To the Board of Trustees:*

Early in the morning of Sunday, August 16th, a fire was discovered in the Chemical Laboratory, and before it could be extinguished the entire building and contents, save the outside walls and a portion of the basement, were destroyed. The only explanation of the origin of the fire is that about two hours before its discovery a thunder storm, accompanied by lightning of unusual severity, passed over the University. One flash of lightning was so vivid and so close as to startle all the people who were in the neighborhood. As the fire was discovered about two hours after this occurrence, and as there was no one in or about the building in the meantime, with no fires or lights

in the structure, and no opportunity for spontaneous combustion, so far as is known, it is reasonable to suppose that the fire originated from a flash of lightning. Before it was discovered it had made great headway from the main floor through the second and third floors. The fire departments of Champaign and Urbana were upon the grounds very soon after the discovery and rendered heroic and effective service, but notwithstanding their best efforts, and probably because of the ignitable character of the chemicals stored in the building, destruction soon followed. The roof fell in and carried with it the main part of three floors.

I suppose the loss upon the building itself would aggregate \$40,000 to \$50,000. It would certainly require more than that amount to make another building suitable to take its place. There was much valuable apparatus and the next year's supply of chemicals in the building. Some part of the stock of chemicals was fortunately saved, but the loss of apparatus was nearly complete. I suppose a moderate estimate of the loss of apparatus and supplies would be \$20,000 to \$25,000.

Work was commenced instantly to remove the debris. Members of the Board were requested to meet here on the following Wednesday morning and Messrs. Morgan, Morrison, Bullard, Raymond, and Graham were here. After fully discussing the matter they unanimously agreed upon a plan of action. This was to put a new roof of substantial character over the structure; to patch up the interior for temporary use, at the least possible cost and in the least practicable time, with a view to the abandonment of the building as a chemical laboratory and to the converting of it to some other purpose as soon as the State could make provision therefor. The precise action of the members of the Board who were present will be reported to you by the Secretary and will require your action. The work determined upon has been rapidly prosecuted under the supervision of Associate Professor James M. White, of the department of architecture, and the building is now practically ready for use. I do not think we have lost any students in consequence of the disaster, although much inconvenience and some embarrassments are unavoidable.

A. S. DRAPER,  
*President.*

#### THE CORPS OF INSTRUCTION.

*To the Board of Trustees:*

I make the following recommendations as to the Corps of Instruction:

1. That Professor Daniel Kilham Dodge be granted leave of absence, because of sickness, for the fall term, upon half pay. It has been arranged that Professor Dodge's work shall be carried through the fall term by other members of the Faculty of the College of Literature and Arts, with such additional assistance as may be necessary to many the details of their work, which we shall be able to employ, I think, for the time being, without material loss to the interests of the University.

2. That Assistant Professor George Daniel Hammond be granted leave of absence for the year, without salary and in consequence of sickness, and that George Henry Alden, Ph. D., be appointed Acting Assistant Professor of History for the year, at a salary of \$70 per month for ten months from September 1st.

3. In June last John Edward McGilvrey, A. B., was, by your authority, appointed Assistant Professor of Pedagogy and Visitor of High Schools, at a salary of \$1,200 per annum. Your approval is requested.

4. That the salary of George A. Huff, Jr., Assistant Director of the Gymnasium and Coach of the Athletic Teams, be \$1,200 per annum.

5. In July last Carlton Raymond Rose, Ph. M., was, by your authority, appointed Instructor in Chemistry, at a salary of \$70 per month for ten months from September 1st. Your approval is asked.

6. In August last Mr. Edwin Hall Pierce was, by your authority, appointed Instructor of the Violin and Conductor of the Military Band, at a salary of \$80 per month for ten months from September 1st. Your approval is requested.

7. In August Mr. Joseph Cullen Blair was, by your authority, appointed Assistant Horticulturist, with rank of Instructor in Horticulture, at a salary of \$1,000 per annum, one-half to be paid by the University and one-half by the Agricultural Experiment Station. Your approval is requested.

8. In June last Ernest C. Klipstein was appointed Instructor in Architecture, but declined the appointment. I recommended the appointment of Seth Justin Temple to the position, at a salary of \$80 per month for ten months from September 1st. Following is a statement of his career: Mr. Temple is a graduate in architecture from Columbia University, New York, in 1892; Instructor in Architecture at the Metropolitan Museum of Art, New York, for two years; had the Columbian Fellowship in Architecture in 1885 and spent nearly two years traveling and studying in Europe. He is very highly recommended by Professor W. R. Ware, of Columbia University.

9. In July last Harry Keeler, B. S., was, by your authority, appointed Assistant in Chemistry, at a salary of \$50 per month for ten months from September 1st. Your approval is asked.

10. In July last William Charles Brenke, B. S., was, by your authority, appointed Assistant in Mathematics, at a salary of \$70 per month for ten months from September 1st. Your approval is requested.

11. It has become necessary to provide an additional Instructor in German. Professor Rhoades and Mr. Smith each have four classes and in most of them there are more students than can be instructed advantageously. The demands are likely to grow greater rather than less during the year. I therefore recommend that the President be allowed to engage an additional Instructor at not more than \$70 per month for the remainder of the year.

12. That the title of Walter Howe Jones be that of Professor of Music; that the title of Miss Adeline Whitney Rowley be Instructor in Vocal Music; that the title of Charles Nelson Cole, of the Preparatory School, be Instructor in Latin and Greek; that the title of Reuben S Douglass, of the Preparatory School, be Instructor in Mathematics; the changes in title to be without change of salary.

A. S. DRAPER, President.

The recommendations of the foregoing paper were, on motion of Mr. McLean, approved.

#### POSTOFFICES.

*To the Board of Trustees:*

There is considerable confusion, and I think some harm, arising out of the fact that there are two postoffices near the University, through which we receive our mail. Persons connected with the University, living in the adjacent cities and sympathizing with the local feeling of rivalry which exists between them, frequently seek to promote the interests of one or the other by the exclusive announcement that one or the other postoffice is the postoffice of the University. In my judgment it would be well for the Board of Trustees to give direction in the premises. While the University is within the corporate and geographical limits of the city of Urbana, it is, in fact, as convenient to one city as to the other. While there is a free delivery of mail through the Urbana office, it will always be necessary, in the interest of expedition, to receive mail through the Champaign office, for the University has become so extensively associated with the name of the latter city that it will never be possible for us to prevent mail matter being addressed to us at that office, and nearly as much time and inconvenience is experienced in the forwarding of mail through the regular channel from Champaign to Urbana and thence to the University as would be experienced by sending it around by Chicago or St. Louis. Moreover, it seems to me that there is a certain advantage to be

derived from our being publicly identified with both cities; and it seems to me, also, that it is only just that we should publicly recognize our relations with each.

I therefore respectfully recommend that, in all future publications of the University, and in all official correspondence by representatives of the University, it be plainly stated that both Champaign and Urbana are postoffices through which mail matter will be received.

A. S. DRAPER, President.

The recommendations of the foregoing paper were approved.

#### POLICING AND LIGHTING BUILDINGS AND GROUNDS.

##### *To the Board of Trustees:*

I have frequently expressed the feeling that there is a lack of security about the University. I think that circumstances now make it imperative for us to take some decisive steps to remove the insecurity. We suffer very little loss or annoyance through the acts of our own students. We are continually over-run by outsiders who spend their time idling about the grounds, both day and night. The result is frequent injury to property, some thievery, and a continual menace to the quietness and good order imperative to the institution.

Although not arising from the depredations of outsiders, so far as we know, we have twice during the last year had fire in our buildings, each of which was in the night, and the last of which was very disastrous. These things impress upon us the necessity of closer care. I have made application to the City Council of the city of Urbana for the passage of ordinances making certain acts of lawlessness which have been directed to be stopped by previous action of the Board, infractions of the public peace and punishable as misdemeanors. The Council has responded to such application in a way which seems to meet the difficulty and cover the ground, so that when offenders are hereafter apprehended it seems possible that they may be punished.

Now, I think that we need more light about the campus, the service of a night watchman and, perhaps, of a day policeman as well. I have made application to the Mayor and Council of the city of Champaign to maintain an arc light at the intersection of Green and Wright streets, the most prominent entrance to the University grounds from the Champaign side. The matter is now under consideration. I have seen the Electric Light Company in reference to continuing the arc lights, which we maintain upon the campus, beyond twelve o'clock midnight, the hour named in the contract. The company offers to continue the lights until 3:30 a. m. in the summer time and until 4:30 a. m. during the six winter months, at an advance of \$3.00 per lamp per year. I therefore recommend,

1. That two additional lamps be installed upon the campus.
2. That the proposition of the Electric Light Co. to continue the lights until 3:30 a. m. and 4:30 a. m. at \$3 additional per lamp per year, be accepted.
3. That the Department of Buildings and Grounds be authorized to employ a night watchman at a salary of not exceeding \$40 per month, whose duty it shall be to patrol the grounds and inspect the buildings continuously during the hours from 6 o'clock p. m. to 6 o'clock a. m.
4. That the Department of Buildings and Grounds be authorized to employ a day policeman at a salary of not exceeding \$40 per month, who shall be clothed in policeman's uniform, and whose duty it shall be to be about the grounds and render such police service as may be necessary between the hours of 6 o'clock a. m. and 6 o'clock p. m.
5. That janitors in the employ of the University be required to wear a uniform to be prescribed by the Superintendent of Buildings and Grounds.

A. S. DRAPER, President.

On motion of Mr. McLean, the recommendations of the foregoing paper were approved with the exception of that regarding a day policeman, which was referred to the Committee on Buildings and Grounds with instructions to report as soon as possible.

#### STEAM HEATING DEPARTMENT.

Upon recommendation of Professor Breckenridge, Superintendent of Steam Heating, approved by President Draper, Mr. J. Morrow was employed for twelve months from September 1, 1896, at \$75 a month; Mr. E. Justus for ten months from September 1, 1896, at \$50 a month; Mr. Chas. Ewald for ten months from September 1, 1896, at \$20 a month; and Mr. John Doughty at \$50 a month from September 1, 1896. Also the Superintendent of Buildings and Grounds was authorized to employ from time to time such additional help as might be necessary to carry on the work of this department.

For repairing the heating apparatus in the Chemical Laboratory \$225 was appropriated, and the Superintendent of the Heating Department was instructed to have these repairs made.

For the purchase of fittings and pipe \$75 was appropriated.

For installing electric lighting in Engineering Hall and Machinery Building \$200 was appropriated.

The request of \$150 for running expenses in steam engineering laboratory work was referred to the Committee on Buildings and Grounds.

On motion of Mr. Morgan, the request of the Librarian, Mr. Bicknell, for an assistant, was indefinitely postponed.

On recommendation of President Draper, \$100 was appropriated for the purchase of apparatus in the Preparatory School.

It was voted that the architects of Library Hall be directed to have designed and placed in the vestibule of the building a suitable bronze tablet, and to have the names of the Board of Trustees, the President of the University, the architects, and the contractors inscribed thereon.

#### ADVISORY BOARD FOR SCHOOL OF PHARMACY.

The following communication from the State Pharmaceutical Association was presented to the Board by President Draper:

#### ILLINOIS PHARMACEUTICAL ASSOCIATION.

SPRINGFIELD, July 29, 1896.

*Hon. A. S. Draper, President University of Illinois, Champaign, Ill.,*

DEAR SIR: I have the honor to transmit to you the names of ten registered pharmacists selected (upon your suggestion) by the Illinois Pharmaceutical Association at their meeting in Springfield July 29, 1896, from which to select an Advisory Board of five members for the Department of Pharmacy of the University of Illinois.

Henry Biroth, 481 25th St., Chicago.  
 W. M. Sempill, 135 Clark St., Chicago.  
 A. E. Ebert, 426 S. State St., Chicago.  
 Andrew Scherer, 383 N. State St., Chicago.  
 H. H. Green, Bloomington.  
 Henry Swannell, Champaign.  
 Theo. C. Loehr, Carlinville.  
 H. H. Rogers, Kankakee.  
 Thomas Knoebel, East St. Louis.  
 F. Lueder, Peoria.

Respectfully submitted,

F. FLUERY, Secretary.

It seemed best that the Advisory Board should consist of ten members and the persons nominated were unanimously selected.

On motion of Mr. McLean, it was voted to hold a special meeting of the Board October 6, 1896, at the School of Pharmacy, Chicago, Illinois.

The proposition to set eight stone posts so as to prevent driving across the lawn on the north side of Green street was referred to Mr. Morgan for investigation and report. Later in the session, on recommendation of Mr. Morgan, \$160 was appropriated for the purpose of setting stone posts or boulders for such purpose, as the Committee on Buildings and Grounds might deem advisable.

A communication was received from the Julia F. Burnham Hospital Association, of Champaign; asking for the use of Military Hall on the evening of November 23d. Action was postponed until the next morning.

A communication from John Deere & Co., of Moline, Ill., with regard to a breaking plow given to the University at the time of the World's Fair, and the claim of certain parties in Henry county to the ownership of the plow were referred to Mr. Morgan, the sense of the Board being that it is very desirable that the plow remain at the University.

#### STATE LABORATORY OF NATURAL HISTORY.

The biennial report of the State Laboratory of Natural History was presented by the Director, Professor Forbes, and it was ordered that it be printed in the biennial report of the Board of Trustees.

#### AGRICULTURAL EXPERIMENT STATION.

President Draper presented a report from the Director of the Agricultural Experiment Station, Professor Davenport.

In accordance with the recommendations of the report and of the report from the Advisory Board of the Experiment Station, to be found below, the salary of Mr. Powers was made \$75 a month for the months of August and September and appropriations of Station funds were made to meet the following estimates:

## AGRICULTURAL EXPERIMENT STATION—ESTIMATES.

<i>For Quarter Ending September 30, 1896—General Fund.</i>	
Salaries .....	\$430 00
Library .....	35 00
Publications.....	190 00
Scientific apparatus.....	20 00
Total.....	\$675 00
<i>For Quarter Ending December 31, 1896—General Fund.</i>	
Salaries.....	\$1,887 50
Labor.....	475 00
Publications.....	150 00
Postage and stationery.....	25 00
Freight and express.....	25 00
Heat, light and water.....	60 00
Chemical supplies.....	25 00
Seeds, plants and sundry supplies.....	125 00
Feeding stuffs.....	100 00
Library.....	35 00
Tools, implements, and machinery.....	105 00
Furniture and fixtures.....	115 00
Scientific apparatus.....	300 00
Traveling expenses.....	60 00
Contingent expenses.....	40 00
Buildings and repairs.....	225 00
Total.....	\$3,752 50
<i>From Farm Fund.</i>	
Labor.....	\$500 00
Seeds, plants and sundry supplies.....	250 00
Total.....	\$750 00

The following report was received from the Advisory Board of the Agricultural Experiment Station:

## REPORT OF ADVISORY BOARD.

UNIVERSITY OF ILLINOIS, September 15, 1896.

*Dr. A. S. Draper, President of the University of Illinois:*

SIR:—I beg leave to submit from the Advisory Board of the Agricultural Experiment Station the following:

*Paper A* is a statement of expenditures for the quarter ending June 30, 1896.

*Paper B* is a statement of expenditures for the year ending June 30, 1896.

*Paper C* is a list of warrants drawn Nos. 248 to 343, inclusive, for the quarter ending June 30, 1896, and is accompanied with vouchers for the same for audit.

## PAPER A—STATEMENT OF EXPENDITURES FOR THE QUARTER ENDING JUNE 30, 1896.

Board expense.....	\$21 70
Buildings and repairs.....	1 80
Bulletins.....	832 07
Chemical apparatus and supplies.....	323 28
Fuel and lights.....	61 97
Incidentals.....	18 52
Printing, stationery, and postage.....	45 35
Salaries.....	1,622 50
Seeds and trees.....	61 71
Tools and supplies.....	485 12
Wages.....	1,177 60
<i>Sundry.</i>	
Southern Illinois experiments.....	120 01
Farm stock.....	15 00
Total.....	\$4,786 63

## PAPER B—STATEMENT OF EXPENDITURES FOR THE YEAR ENDING JUNE 30, 1896.

Board expense.....	\$91 06
Books and publications.....	248 71
Botanical apparatus and supplies.....	80 33
Buildings and repairs.....	48 25
Bulletins.....	1,307 60
Chemical apparatus and supplies.....	642 53
Fuel and lights.....	211 82
Incidentals.....	128 32
Meteorological apparatus.....	9 95
Printing, stationery, and postage.....	119 45
Salaries.....	6,531 66
Seeds and trees.....	83 56
Tools and supplies.....	858 47
Wages.....	4,399 14
<i>Sundry.</i>	
Wood durability experiment.....	32 48
Southern Illinois experiments.....	191 67
Farm stock.....	15 00
Total.....	\$15,000 00

The Director of the Station, Professor Davenport, read to the Board his quarterly report to the President of the University. The estimates included in this report for the expenses of the current and next quarters were approved and the appropriations for the same were recommended. It was also recommended that the compensation of Mr. W. A. Powers in the Dairy Department be \$75 a month for August and September.

The Board recommended the appointment by the Trustees of a delegate to represent the Station at the Washington meeting of the Association of American Agricultural colleges and Experiment Stations, his expenses to be paid from Experiment Station funds.

The following resolution was adopted by the Advisory Board:

*Resolved*, That it is the sense of the Advisory Board of the Agricultural Experiment Station of the University of Illinois that a separate building, devoted to the needs of instruction and experimentation in agriculture, ought to be provided at the earliest practicable date.

Respectfully submitted,

T. J. BURRILL,  
*President Advisory Board.*

President Draper and Professor Davenport were appointed delegates to the meeting of the Association of American Agricultural Colleges and Experiment Stations to be held in Washington next November, as representatives of the University and the Agricultural Station respectively, and it was ordered that the expenses of the former be paid from University funds and of the latter from Station funds.

President Draper presented a request from the Athletic Advisory Board asking that a man be furnished to take charge of the athletic grounds and tennis courts until Thanksgiving Day. It was considered that the Superintendent of Buildings and Grounds had already full power with regard to this matter, and it was left in his charge.

Upon request of Professor Forbes, \$200 was appropriated for use in the Department of Physiology, and \$100 for that of Hygiene.

Upon request of Professor Kinley, \$75 was appropriated to be used in investigation of the spread of "tenant farming in Illinois," and of the "cost of production of corn and oats in Illinois."



Mr. Morrison asked to be relieved from the committee on letting coal contracts, and on motion of Mr. Bullard, Mr. McLean and Mr. Graham were appointed to act with the Business Manager as such committee.

Mr. Morgan, to whom the matter had been referred, reported with regard to the claim of Mr. S. S. Beman, architect of the President's House, and recommended that it be paid; the amount being \$445.56. The report was approved and the bill was ordered paid.

President Draper invited the members of the Board to attend a meeting of the Corps of Instruction at the Physics Lecture Room in the evening and the invitation was accepted.

The Board then adjourned to meet at 9 o'clock a. m. Wednesday.

#### SESSION OF WEDNESDAY.

When the Board met pursuant to adjournment the same members were present as on Tuesday, except Dr. Smith and Mr. Inglis.

The Finance Committee made the following reports which were received for record:

URBANA, Sept. 1896.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN: Your Finance Committee reports that it has examined the vouchers on which University warrants 1651 to 2125, series 1893-94; 1 to 2150, series 1894-95; 1 to 1425, series 1895-96, inclusive, have been issued, and finds the same correct and properly receipted, with the exception of 787, series 1895-96, for \$50,000; which was not issued. Your committee recommends that this warrant be cancelled.

N. B. MORRISON,  
S. A. BULLARD,  
Finance Committee.

URBANA, ILL., Sept. 16, 1896.

*To the Board of Trustees.*

GENTLEMEN: Your Finance Committee begs leave to report that it has examined the vouchers of the Agricultural Experiment Station, Nos. 248 to 353, inclusive, for the expenses of the Station for the quarter ending June 30, 1896, and has found the same correct.

Your committee has also examined the report for the year ending June 30, 1898, and has found it correct.

Respectfully submitted,

N. B. MORRISON,  
S. A. BULLARD,  
Finance Committee.

The Secretary made the report required of him with regard to Endowment Fund securities maturing during the next six months, and this report was referred to the Finance Committee.

The Secretary presented the following report, which he had received from the Treasurer:

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,  
JUNE 30, 1896.

1896.		<i>Dr.</i>		
May	31	Balance.....		\$236,323 20
June	3	Received bond No. 4, City of Urbana, due June 1, 1896.....	\$1,000 00	
"	3	Received coupons, City of Urbana, due June 1, 1896....	385 00	
"	3	Received coupons, Village of Mansfield, due January 1, 1896.....	213 00	
"	4	Received coupons, school district Champaign county due June 1, 1896.....	182 50	e
"	12	Received interest due January 1, 1896, on land contract No. 93, John T. Eagan.....	52 50	
"	18	Received coupon, Homer township, district No. 2 Champaign county, due June 14, 1896.....	375 00	
"	19	Received bond, school district, Montgomery county, Illinois, due June 15, 1896.....	1,000 00	
"	19	Received coupons, school district, Montgomery county, Illinois, due June 15, 1896.....	420 00	
"	24	Received from W. L. Pillsbury, returned salary of G. P. Clinton for March, 1896, to be credited to U. S. Experiment Station.....	83 34	
"	27	Received coupon, union school district, No. 2, Champaign county, due July 1, 1896.....	150 00	3,861 34
				<u>\$210,184 54</u>
1896.		<i>Cr.</i>		
June	30	By amount paid out of general fund, as per list of warrants attached hereto.....	\$3,268 52	
"	30	By amount paid out of State appropriation for salaries, etc., as per list of warrants attached hereto.....	12,729 65	
"	30	By amount paid out of State appropriation for library building, as per list of warrants attached hereto.....	1,115 30	
"	30	By amount paid out of State appropriation for library, as per list of warrants attached.....	446 61	
"	30	By amount paid out of State appropriation for laboratory of Natural History, as per list of warrants attached hereto.....	850 16	
"	30	By amount paid out of State appropriation for cabinets, as per list of warrants attached.....	38 84	
"	30	By amount paid out of State appropriation for Engineering College, as per list of warrants attached hereto.....	776 76	
"	30	By amount paid out of State appropriation for Astronomical Observatory, as per list of warrants attached hereto.....	1,086 53	
"	30	By amount paid out of State appropriation for fitting and furnishing Engineering Hall, as per list of warrants attached hereto.....	151 60	
"	30	By amount paid out of State appropriation for building and equipment, Biological Experiment Station, as per list of warrants attached hereto.....	70 44	
"	30	By amount paid out of State appropriation for apparatus and material, as per list of warrants attached hereto.....	20 75	
"	30	By amount paid out of State appropriation for shop practice, as per warrants attached hereto.....	115 17	
"	30	By amount paid out of State appropriation for Chemical Laboratory, as per list of warrants hereto.....	61 75	
"	30	By amount paid out of State appropriation for fire protection, as per list of warrants attached hereto.....	62 76	
"	30	By amount paid out of State appropriation for paving streets and walks, as per list of warrants attached hereto.....	2 72	
"	30	By amount paid out of United States Experiment Station fund, as per list of warrants attached hereto.....	941 90	
"	30	By amount paid out of Experiment Station farm fund, as per list of warrants attached hereto.....	44 04	
				\$21,783 51

Balances, June 30, 1896—			
Endowment fund.....	\$34,745	93	
U. S. Experiment Station fund.....	2,968	91	
Farm fund.....	153	30	
General fund.....	2,942	41	
State Appropriations—			
For salaries, etc.....	3,153	80	
For Library Hall.....	144,208	85	
For library.....	348	30	
For Laboratory Natural History.....	816	80	
For Cabinets.....	675	80	
For Engineering College.....	6,223	70	
For Astronomical Observatory.....	13,289	24	
For fitting and furnishing Engineering Hall.....	1,925	70	
For building and equipping Biological Experiment Station.....	113	23	
For Biological Experiment Station expense.....	6	97	
For apparatus and material.....	348	89	
For shop practice.....	63	87	
For Chemical Laboratory.....	1,827	74	
For Laboratory of Vegetable Physiology.....	88	02	
For fire protection.....	970	34	
For paving streets and walks.....	529	23	
For establishing, equipping and maintaining a laboratory for propagating pure vaccine virus.....	3,000	00	\$218,401 03
			<u>\$240,184 54</u>

The committee on bids for furnishing coal for the ensuing year reported as follows:

URBANA, ILLINOIS, September 16, 1896.

*To the Board of Trustees of the University of Illinois:*

GENTLEMEN: Your committee on bids for furnishing coal for the University for the ensuing year, after careful investigation, would recommend that the order for supplying coal be awarded to the Odin Coal Company at the prices named in its bids, and that the Business Manager be authorized to carry out the terms of this report.

Respectfully submitted,

ALEX. MCLEAN,  
NELSON W. GRAHAM,  
Committee.

The report of the committee was adopted.

It was voted that the janitors receiving not to exceed \$35 a month should be paid an additional \$2 a month; also that it should be left to Captain Brush and the Superintendent of Buildings and Grounds to determine of what the uniform should consist, which, by the action already taken, the janitors about the University are required to wear hereafter.

It was ordered that the Business Manager should get watchman's registers or clocks and have them placed on the upper floors of each of the buildings to be inspected by the night watchman. An appropriation of \$100 was made therefor.

Professor Shattuck was appointed Business Manager, the appointment to commence September 1, 1896, and to continue until otherwise ordered; salary \$600 a year.

It was ordered that the fees for instruction upon the violin and other stringed instruments should be,

For students of music only—

	First Term.	Second Term.	Third Term.
Two lessons a week .....	\$21 00	\$16 00	\$16 00
One lesson a week .....	11 00	9 00	9 00

For students paying fees in other departments of the University—

	First Term.	Second Term.	Third Term.
Two lessons a week .....	\$16 00	\$11 00	\$11 00
One lesson a week .....	9 00	6 00	6 00

A proposition in writing from the National Medical College, of Chicago, presented by Dr. Smith, and a verbal communication from the College of Physicians and Surgeons, of Chicago, were referred for investigation and report to a committee consisting of President Draper and Messrs. Armstrong, McLean, Raymond, and Morgan.

President Draper stated that the tenant on the south farm, Mr. Hedges, thinks it would be but fair that he should have some reduction in his rent on account of the nearly complete failure of his oats crop. The Farm Committee was given power to adjust the matter.

The Secretary was instructed to inform the Julia F. Burnham Hospital Association that, while the Trustees felt great interest in the success of the Hospital, and were entirely in sympathy with the benevolent work the Association had undertaken, they did not, after careful consideration of the matter, deem it wise to grant the use of Military Hall for the charity ball, as requested.

The Committee on Buildings and Grounds made the following report:

*To the Board of Trustees:*

GENTLEMEN: Your Committee on Buildings and Grounds begs leave to report that the work in its charge is progressing satisfactorily.

#### ASTRONOMICAL OBSERVATORY.

The contracts for the construction of the Observatory have been completed. The contracts for instruments are well under way and the last instrument will be here in a short time.

The building has cost \$6,654 including extras amounting to \$209.

We ask that Professor C. D. McLane be paid \$100 for services as superintendent in the construction of this building. We recommend that \$60 be appropriated for connecting the electric lighting apparatus of the Observatory with the Electric Light Company's lines.

#### CHEMICAL LABORATORY.

The Committee has taken charge of the improvements in the Chemical Laboratory made necessary on account of the fire, upon authority given by the Executive Committee.

The Committee submits the report of Professor White with regard to the work, and recommends that \$2,000 additional, as suggested in his report, be appropriated for completing the work.

The Committee also recommends that the building be washed down so that all fire stains may be removed.

The Committee further recommends that a payment of \$80 be made to Professor White for his services as architect in charge.

*To the Committee on Buildings and Grounds:*

GENTLEMEN: As architect in charge of the repairs upon the Chemical Laboratory, which were directed by you Aug. 19th, I have to report that the work has progressed very favorably and that the changes, so far as the inside of the building is concerned, will be practically completed by tomorrow evening.

The completing of the balances of the exterior work will not interfere with the use of the building.

The work in the interior has been of a temporary nature and has cost about \$2,000. This includes all carpenter work, plastering, cleaning, and kalsomining of walls, plumbing, ventilating (including a new 6 H. P. motor), and fixed furniture, such as chemical desks and hoods and apparatus cases. Probably \$200 or \$300 will be necessary to complete this work, besides what will be needed for movable furniture, such as settees, chairs, and tables.

The roof is constructed as a permanent feature and being all new it was feasible to make it contract work. Bids were received from three firms on a trussed roof supported on the outside walls only, and covered with slate. All flashings, valleys, and aprons were specified to be copper, the cornice, galvanized iron, and the gutter, tin.

The bids were:

J. C. Sedgwick, Champaign, \$3,931.

L. M. Moore, Danville, \$4,170.

H. M. R. Construction Co., Chicago, \$5,550.

The contract was awarded to J. C. Sedgwick.

The appropriation of \$2,500 made for this work was only a guess at the cost, for there were then no drawings available upon which to base an estimate. The deficit on the roof is \$1,431, and the interior work will exceed the appropriation by about \$200. Some furniture is also still needed. It will require an additional appropriation of about \$2,000 to meet these items.

To make the building as sightly as possible on the exterior the brick work should be washed off. This is an expense I can not estimate, but it certainly can not be very great and I ask that it be authorized.

Respectfully submitted,

JAMES M. WHITE,  
Associate Professor of Architecture.

#### LIBRARY HALL.

The work on the Library Building is progressing satisfactorily, and in the opinion of the Committee the contractors are doing the work well. The report of the architects and superintendents, which is here inserted, and made part of this report, is expressive of the greatest confidence that the work is going on according to the contract and specifications.

UNIVERSITY OF ILLINOIS, Sept. 16, 1896.

*To the Building Committee of the Board of Trustees.*

GENTLEMEN: We beg leave to present the following report on the progress of the Library Building.

A delay of several weeks occurred in putting in the stone foundations, caused by the sickness of the quarry manager and retarded shipment of stone. But

this delay has now been fully compensated by the excellent progress made in all other parts of the work, which is further advanced now than was expected. With favorable weather, the erection of the steel framing of the roof will commence before Oct. 1st., and the roof will doubtless be completed and the building enclosed before Nov. 1st. This will permit the work of finishing the interior to be carried on during the entire winter, as the contractors will provide sufficient temporary heating apparatus.

We report with pleasure that the sub-contract for roofing and copper work has been let to one of the very best and most reliable Chicago contractors in this line, thus securing a tight and permanent roof for the building, not the least important portion of the structure.

The external walls are to be completed by Oct. 1st, excepting the upper part of the tower, which will be cut and set during the month. Over forty stone cutters have been employed for some time past, cutting all stone here, so that delays in transportation will be avoided.

You will doubtless have noticed that the carved ornamentation around entrance, as well as the main cornice, has been temporarily omitted, until spring, so as to avoid danger of injury in setting, and to leave it fresh and sharp.

The Expanding Metal Fireproofing Co. has completed the concrete floor of the book room, ready to receive structural steel work. This floor is afterwards to receive two inches of concrete filling and one inch Alsen's cement topping, finished hard and smooth, like the last concrete sidewalks, and to remain without any wooden floor. We have made experiments on the Alpha cement used on this work, and find it fully equal to the best German Portland cement in all respects. Experiments made on sample slabs of this concrete and expanded metal floor, one foot wide and three feet eight inches long between supports, subjected to a center breaking load, exhibit a corresponding breaking load of 600 pounds per square foot of floor, uniformly distributed, giving a factor of safety of nearly 6. This system of fireproof construction is better and more satisfactory than we had expected.

The walls of the book room have been held back to permit erection of structural steel work of book cases before putting in scaffolding for masons. The stone is all out as far as the second story floor and can be rapidly set in place. The Library Bureau informed us today that this structural steel work was shipped yesterday, and that workmen will come today, to erect it at once. Therefore no further delay is likely to occur, if the weather continues favorable.

We report with pleasure that all contractors, sub-contractors, mechanics and laborers, employed in the building, have so far appeared to be willing and even anxious to do good, honest work, and furnish acceptable materials in the building, and no difficulty has occurred in getting our directions carried out promptly and carefully. We have each visited the building from two to four times daily during the progress of the work.

The estimates and payments to contractors on account of the Library Building are as follows:

Estimate of value of all labor and materials from beginning to Sept. 1st.....	\$ 42,506 00
Deduct 15 per cent. reserve.....	6,376 00
Total payments.....	\$ 36,130 00
Certificates have been issued as follows:	
July 1, 1896.....	\$ 3,106 00
August 1, 1896.....	10,925 00
September 1, 1896.....	22,099 00
Total.....	\$ 36,130 00

Very respectfully submitted,

RICKER & WHITE,  
Architects of Library Building.

The Committee recommends the appropriation of \$150.00, as requested by Professor Breckenridge, for steam engineering laboratory work.

Respectfully submitted,

S. A. BULLARD,  
R. P. MORGAN,  
I. S. RAYMOND,

Committee on Buildings and Grounds.

The report of the Committee was adopted and appropriations were made as therein recommended:

It was voted that Professor Breckenridge and Mr. Bullard should visit the University of Wisconsin, the University of Michigan, and the Ohio State University for the purpose of inspecting their heating, lighting, and power plants, and making a report to this Board with regard to a plant for these purposes at this University.

#### CHEMICAL LABORATORY REPAIRS.

The Secretary laid before the Board the following resolution, and a report from the Executive Committee.

URBANA, ILLINOIS, August 19, 1896.

At a conference of certain members of the Board of Trustees of the University of Illinois held this day in the office of the President of the University, at which there were present Messrs. Bullard, Graham, Morgan, Morrison, and Raymond the following resolution was unanimously adopted:

*Whereas*, The burning of the Chemical Laboratory confronts the Board of Trustees with the question of its permanent and temporary repairs, and,

*Whereas*, The building had in consequence of the rapid increase of the students become seriously inadequate to the needs of the Chemistry Department of the University, and at an early date would have become wholly inadequate; and

*Whereas*, The necessity of immediate provision for the Chemistry Department is imperative and there is no money appropriated with which to meet such an emergency so that what is used must be taken from the appropriation for ordinary running expenses, though fully needed therefor, therefore be it

*Resolved*, That any repairs made should not be made with the view of re-establishing that building as the permanent Chemical Laboratory, but that steps be taken to put the building, at the least possible expense, in a condition so that it may be used temporarily by the Chemistry Department until the State shall make permanent provision therefor.

#### REPORT OF THE EXECUTIVE COMMITTEE.

URBANA, ILLINOIS, August 19, 1896.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN: Your Executive Committee reports that pursuant to a call sent out by the President of the Board, Mr. Armstrong, the Committee this day met in President Draper's office at the University, there being present Messrs. Bullard and Raymond, and transacted the following business:

Twenty-five hundred dollars was appropriated to put a roof on the Chemical Laboratory, which had been seriously damaged by fire on the morning of Aug. 16th.

An appropriation of one thousand dollars was made to restore the partitions, and one thousand dollars for furniture, etc.

The Committee on Buildings and Grounds was intrusted with this work and instructed not to restore the mansard story, but to put a permanent roof.

on immediately above the second story. The Committee was also instructed to make other repairs on the building in a temporary way and with as little expenditure of money as possible.

An appropriation of twenty-five hundred dollars was made for the purchase of apparatus and supplies and the making these purchases was put into the hands of the Business Manager, and Professor Palmer and Parr.

Respectfully submitted,

W. L. PILLSBURY,  
Clerk.

S. A. BULLARD,  
Chairman, Pro tem.

The resolution was approved and adopted by the Board as its own, and the acts of the Executive Committee were confirmed.

The Business Manager presented his report.

BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, September 15, 1896.

*James E. Armstrong, President Board of Trustees, University of Illinois:*

SIR:—I have the honor to hand you herewith the following financial statements:

*Paper A*, a showing of the current appropriations June 30, 1896.

*Paper B*, the same for the State appropriations.

*Paper C*, a list of vouchers presented for audit, being Nos. 1426 to 2350, inclusive, series 1895-96.

*Paper D*, estimates for the twelve months ending June 30, 1897.

*Paper E*, appropriations the Board is requested to make at this time.

*Papers F, G and H*, bills for which appropriations are requested.

I also ask for the appropriation of the balance, \$750, of the State appropriation for shop practice, as it is a matter of economy to purchase the iron, coke, etc., for the year, at this time.

An additional appropriation for the new roof of the Chemical Laboratory will be required.

*Paper I*, a statement of receipts for June, 1896.

*Paper K*, the inventory of apparatus and furniture.

PAPER A—CURRENT APPROPRIATIONS.

June 9, 1896.	Appropriated.	Expended.	Balance.
Board expenses.....	\$500 00	\$253 12	\$246 88
Salaries for instruction { Current.....	20,645 00	{ 2,692 47	12,581 78
and for President { State.....			
Salaries for services { Current.....	2,300 00	{ 889 00	1,399 54
{ State.....			
Buildings and grounds.....	1,000 00	15 10	984 90
Fuel and lights.....	3,000 00	44 99	2,955 01
Stationery and printing.....	600 00	156 58	443 42
Preparatory School—Salaries.....	455 00	455 00	.....
Repair shop.....	300 00	54 21	245 79
Mechanical department.....	500 00	268 58	231 42
Other departments.....	200 00	56 96	143 04
Laboratories.....	2,000 00	154 65	1,845 35
Library and apparatus.....	50 00	2 86	47 64
Incidental expenses.....	400 00	146 91	253 09
<i>Sundries.</i>			
Furniture and fixtures.....	500 00	3 52	496 48
Heating apparatus.....	500 00	17 35	482 65
Water supply.....	125 00	.....	125 00
Minnesota lands.....	100 00	.....	100 00
School of Pharmacy.....	3,042 75	439 00	2,603 75
Commencement.....	270 00	170 00	100 00
Treasurer's expenses.....	20 86	20 86	.....
Taxes on Minnesota lands.....	127 59	127 59	.....
<b>Total.....</b>	<b>\$36,636 20</b>	<b>\$11,350 46</b>	<b>\$25,285 74</b>



PAPER B—STATE APPROPRIATIONS.

	Received.	Expended.	Balance.	Assigned.
<i>For the Years 1893-1895.</i>				
Closed out.....	\$295,801 14	\$295,801 14		
Botany.....	450 00	425 07	\$24 93	\$24 93
Pedagogy.....	150 00	127 16	22 84	22 84
	\$296,401 14	\$296,353 37	\$47 77	\$47 77
<i>For the years 1895-1897.</i>				
<i>Apparatus and materials—</i>				
Closed out.....	\$1,400 00	\$1,400 00		
Psychology.....	300 00	213 43	\$86 57	\$86 57
Zoology.....	500 00	462 89	37 11	37 11
Physiology.....	500 00	287 62	212 38	212 38
Botany and horticulture.....	300 00	290 25	9 75	9 75
	\$3,000 00	\$2,654 19	\$345 81	\$345 81
<i>Operating Biological Experiment Station.....</i>	\$1,500 00	\$1,500 00		
<i>Biological Experiment Station equipment.....</i>	2,500 00	2,379 80	\$120 20	\$120 20
<i>Taxes on Minnesota lands.....</i>	1,600 00	3,200 00		
<i>Paving streets, etc.....</i>	9,300 00	9,212 98	87 02	87 02
<i>Astronomical Observatory.....</i>	15,000 00	4,221 67	10,778 33	10,778 33
<i>Laboratory of Vegetable Physiology.....</i>	2,000 00	1,911 98	88 02	88 02
<i>Library Hall.....</i>	150,000 00	5,796 55	144,203 45	144,203 45
<i>Fire protection.....</i>	2,000 00	1,029 66	970 34	970 34
<i>Library.....</i>	3,000 00	2,871 42	128 58	128 58
<i>Cabinets—</i>				
Geology.....	\$1,000 00	\$351 05	\$648 95	\$648 95
<i>Salaries, etc.—</i>				
Closed out.....	\$3,320 00	\$3,320 00		
Salaries for instruction.....	63,563 19	63,101 55	461 64	461 64
Salaries for services.....	9,754 39	9,754 39		
Heating apparatus.....	500 00	494 77	5 23	5 23
Library catalogue.....	400 00	332 43	67 57	67 57
Buildings and grounds.....	2,340 59	2,340 59		
Toilet rooms.....	375 00	292 50	82 50	82 50
Art and design.....	250 08	250 08		
Physical training.....	820 00	817 27	2 73	2 73
School of Music.....	1,050 00	1,046 50	3 50	3 50
Lectures.....	812 76	812 76		
Agriculture.....	3,000 00	2,934 26	61 74	61 74
Preparatory School.....	90 00	70 60	19 40	19 40
Advertising and catalogue.....	1,900 00	1,050 81	849 16	849 16
Oratorical contest.....	100 00	100 00		
College of Literature and Arts, books.....	200 00		200 00	200 00
Athletic fund.....	500 00	439 14	60 86	60 86
Arboretum sewer.....	291 81	291 81		
Farm house.....	169 68	169 68		
Accredited schools.....	305 00	305 00		
Gas fixtures.....	88 23	88 23		
Entomological room.....	169 27	169 27		
	\$90,000 00	\$88,185 67	\$1,814 33	\$1,814 33

*Paper B—State Appropriations.—Continued,*

	Received.	Expended.	Balance.	Assigned.
<i>College of Engineering—</i>				
Machine shop.....	\$17,008 04	\$17,008 04		
Mechanical engineering.....	2,911 16	2,602 55	308 61	308 61
Electrical engineering and physics.....	3,325 00	2,705 05	619 95	619 95
Civil engineering.....	1,600 00	321 65	1,278 35	1,278 35
Laboratory of Applied Mechanics and Municipal and Sanitary Engineering..	1,600 00	268 82	1,331 18	1,331 18
Architecture.....	1,500 00	805 60	694 40	694 40
College of Engineering.....	500 00	194 48	305 52	305 52
Unassigned.....	1,555 80		1,555 80	
	\$30,000 00	\$23,906 19	\$6,093 81	\$4,538 01
<i>Furnishing and Fitting Engineering Hall—</i>				
Electric wiring.....	\$1,191 77	\$1,191 77		
Civil engineering.....	402 79	383 48	\$19 31	\$19 31
Architecture.....	694 74	439 61	255 13	255 13
Municipal and Sanitary Engineering.....	325 66	151 13	174 53	174 53
Mechanical department.....	412 50	220 83	191 67	191 67
Electrical engineering and physics.....	1,042 11	763 10	279 01	279 01
College library and parlor.....	400 95	161 58	239 37	239 37
Unassigned.....	529 48		529 48	
	\$5,000 00	\$3,311 50	\$1,688 50	\$1,159 02
<i>Shop practice.....</i>	\$1,500 00	\$1,478 49	\$21 51	\$21 51
<i>Chemical Laboratory.....</i>	5,000 00	3,256 37	1,743 63	1,743 63
<i>Vaccine Laboratory.....</i>	3,000 00		3,000 00	3,000 00
<i>Illinois State Laboratory of Natural History</i>	9,900 00	9,653 27	246 73	246 73

## BUSINESS MANAGER'S REPORT OF RECEIPTS FOR JUNE, 1896.

University examination fees.....	\$20 00
Preparatory examination fees.....	9 00
Preparatory laboratory bills.....	66 60
Greenhouse sales.....	62 15
Mechanical department.....	14 60
Civil engineering department bills.....	49 60
Physics laboratory bills.....	176 55
Chemical laboratory bills.....	838 08
Botanical laboratory bills.....	1 55
Zoological laboratory bills.....	48 45
Geological laboratory bills.....	25 83
Physiological laboratory bills.....	5 00
Incidental.....	2 00
Minnesota land rents.....	128 74
	\$1,448 15

## INVENTORY, SEPTEMBER 1, 1896.

DEPARTMENT.	PERMANENT.		VARIABLE	TOTAL.
	Apparatus and equipment.	Museum and illustrative material.	Commercial material, etc.	
Botanical department.....	\$2,028 24	\$3,340 00	\$50 00	\$5,418 24
Physical laboratory.....	9,007 50		154 41	9,161 91
Electrical engineering.....	9,432 80	936 50	426 46	10,795 76
History.....	7 25	45 30		52 55
Veterinary science.....	1,125 75	25 00	15 00	1,165 75
Preparatory School.....	98 91		16 16	115 07
Art and design.....	1,291 40	430 45		1,721 85
Geological laboratory.....	1,673 44	17,472 00	253 83	19,399 27
Steam department.....	333,95		12,683 50	13,017 45
Military department.....	10,287 86	605 92		10,893 78
Physiology.....	1,110 15	175 50	238 96	1,524 61
Zoological.....	3,575 59	1,985 00	119 00	5,679 59
Natural History Museum.....	10,000 00			10,000 00
Mechanical department.....	22,131 61		1,400 08	23,531 69
Mathematics.....	19 25			19 25
Civil engineering department.....	8,266 85	1,000 80		9,267 65
Municipal and Sanitary Engineering.....	3,957 45	33 30	850 78	4,841 53
Applied chemistry.....	319 83			319 83
Music department.....	1,150 00		26 80	1,176 80
Latin.....	150 00			150 00
Physical training.....	870 36			870 36
Architectural department.....	3,069 65	1,341 81		4,411 46
Psychology.....	907 51	168 27	7 00	1,082 78
German.....	45 00			45 00
Art gallery.....	3,155 00			3,155 00
Library.....	37,999 30			37,999 30
English.....	13 25			13 25
Pedagogical department.....	129 75			129 73
College of Engineering.....	1,503 87			1,503 87
Chemical laboratory.....	3,590 28	83 50	7,491 73	11,165 51
Physical training.....	534 34			534 34
Romance languages.....	18 00			18 00
Horticulture.....	684 65			684 65
Greek.....	421 72			421 72
Total.....	\$138,910 51	\$27,643 35	\$23,733 71	\$190,287 57

## FURNITURE AND FIXTURES.

University Hall.....	\$11,453 80		
Chemical Laboratory.....	5,376 25		
Natural History Hall.....	6,658 50		
Military Hall.....	465 00		\$23,953 55
Engineering Hall.....	\$11,688 49		
Engineering Mechanical Department.....	2,197 13		13,885 62
			<u>\$37,839 17</u>

Respectfully submitted,

S. W. SHATTUCK,  
*Business Manager.*

Paper C and accompanying vouchers were referred to the Committee on Finance.

The appropriations were made as called for in paper E for the four months ending December 31, 1896.

## APPROPRIATIONS.

Board expenses.....	\$600 00	
Salaries for instruction and President.....	37,420 00	
Salaries for services.....	4,650 00	
Buildings and grounds.....	1,000 00	
Fuel and lights and electric power.....	2,600 00	
Stationery and printing.....	600 00	
Repair shop.....	300 00	
Preparatory School.....	100 00	
Mechanical department.....	600 00	
Architectural, Agricultural, Horticultural, Military, and Civil Engineering departments.....	400 00	
Laboratories.....	1,000 00	
Library and apparatus.....	50 00	
Incidentals.....	500 00	
Furniture and fixtures.....	400 00	
Heating apparatus.....	400 00	
Water supply.....	125 00	
Greenhouse.....	100 00	\$50,245 00
Advertising.....		1,000 00
		<u>\$51,245 00</u>
School of Pharmacy—		
Salaries for instruction.....	\$2,250 00	
Salaries for services.....	500 00	
Apparatus and materials.....	1,000 00	
Coal, gas, water, telephone, stationery, printing, etc.....	600 00	
Rent of building.....	1,200 00	\$5,550 00
Agricultural Experiment Station—general fund.....	\$3,750 00	
Agricultural Experiment Station—farm fund.....	750 00	\$4,500 00

Also, the balance, \$750, of the state appropriation for shop practice was assigned for the use of the Mechanical Department.

The bills of the Treasurer, Mr. Spaulding, amounting to \$310.98, for accrued interest and premiums paid for the purchase of bonds for the endowment fund were referred to the Committee on Finance, with power to act.

The bill of H. T. Sperry & Son, amounting to \$42.45, for insurance on guns, was allowed and ordered paid.

The bill of Cunningham & Boggs, for expenses and services, \$202.81, was allowed and ordered paid.

Professor Shattuck asked that the pay of his clerk be increased from \$45 to \$50 per month, and it was so ordered.

Professor Forbes was authorized to employ a messenger in his office at a salary of \$12 a month to January 1st and \$15 thereafter.

For repair of microscopes in the Zoölogical Department and purchase of some additional parts, \$100 was appropriated.

On motion of Mr. Raymond, \$25 was appropriated for incidental expenses on the south farm.

President Draper and Messrs. Armstrong, Morrison, and Bullard were appointed a committee to consider and report to the Board at its next meeting as to appropriations to be asked for at the next session of the General Assembly.

The Board directed Mr. Morrison to say to the gentleman asking for the loan of an eagle from the Museum, to be carried in the political procession the next day, that the Board declined to grant the request.

On motion of Mr. McLean, the question of appointing a permanent attorney of the Board, which, by resolution adopted at the meeting of June 26th, was to be considered at this meeting, was laid over until the next meeting.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

JAMES E. ARMSTRONG,  
*President.*

MEETING OF SEPTEMBER 30, 1896.

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The Board of Trustees of the University of Illinois met in special session at the office of the Superintendent of Public Instruction, in Springfield, Illinois, at 9 o'clock a. m., Tuesday, September 30, 1896, pursuant to the following call issued by the Secretary September 24, 1896:

“Upon the call of the President, Mr. James E. Armstrong, there will be a meeting of the Board of Trustees of the University of Illinois at the office of the Superintendent of Public Instruction, in Springfield, Illinois, at 9 o'clock a. m., Wednesday, September 30, 1896, for the purpose of visiting the State Fair and to transact such business as may be duly presented.”

The members present were Messrs. Armstrong, Bullard, Inglis, Morgan, Morrison, Raymond and Mrs. Flower; those absent were Governor Altgeld, and Messrs. Graham, Judy, McLean, and Dr. Smith.

Mr. Morgan stated that he had investigated the claims made with regard to the plow which was given to the University at the time of the World's Fair, and that in doing this he visited John Deere & Co., at Moline, and other interested parties in Henry county. He stated his conclusion to be that the plow should be returned to the Old Settlers' Society of Henry county.

On motion of Mr. Morrison it was voted: First, that the report of Mr. Morgan in regard to the Glen plow be approved and all the papers in respect to the plow be placed on file; second, that upon formal application from the Executive Committee of the Old Settlers' Society of Henry county the plow be surrendered and shipped to the address the Committee may designate.

Mr. Bullard read a communication from President Draper with regard to the location on the campus of certain water mains.

On motion of Mrs. Flower, the Committee on Buildings and Grounds was instructed to visit the University and report with regard to the matter at the meeting of the Board to be held in Chicago next Tuesday.

Mr. Armstrong reported for the Executive Committee that it had instructed the Superintendent of Buildings and Grounds to see that the place at the boiler house where the coal is put was suitably inclosed, and that it had appropriated \$100 for that purpose. The action of the Committee was confirmed.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

JAMES E. ARMSTRONG,  
*President.*

## MEETING OF OCTOBER 6, 1896.

The Board of Trustees of the University of Illinois met in special session at the School of Pharmacy, 465 State street, Chicago, Illinois, at 2 o'clock p. m., Tuesday, October 6, 1896, pursuant to the following call issued by the Secretary, October 1, 1896:

"Upon the call of the President, Mr. James E. Armstrong, there will be a special meeting of the Board of Trustees at the School of Pharmacy, 465 State street, Chicago, Illinois, at 2 o'clock p. m., Tuesday, October 6th, for the purpose of attending the opening of the School of Pharmacy and to transact such business as may be properly presented."

The members present were Messrs. Armstrong, Bullard, Graham, Inglis, McLean, Morgan, Morrison, Raymond and Dr. Smith and Mrs. Flower; those absent were Governor Altgeld and Mr. Judy.

Upon recommendation of President Draper, \$100 was appropriated for prizes at the oratorical contest.

An appropriation of \$30 was also made for prizes at the Accredited High School contest.

Upon recommendation of President Draper, Professor Myers was made Director of the Astronomical Observatory.

A communication from Professor Forbes with regard to a summer school at the Biological Experiment Station was referred to the Committee on Instruction.

At the request of the Business Manager, Professor Shattuck, an appropriation of \$300 was made for furniture for the Astronomical Observatory.

A design for a tablet to be placed in Library Hall, prepared by the architects, Messrs. Ricker & White, was referred to a committee consisting of Messrs. Morgan, Bullard, and Raymond, with power to act.

The Board adjourned to attend the opening exercises of the School of Pharmacy.

W. L. PILLSBURY,  
*Secretary.*

JAMES E. ARMSTRONG,  
*President.*



## MEETING OF DECEMBER 8, 1896.

The Board of Trustees of the University of Illinois met in the President's office at the University, in Urbana, Illinois, at 3 o'clock p. m., Tuesday, December 8, 1896.

The members present were Messrs. Armstrong, Bullard, Graham, Inglis, Morrison, McLean, Raymond and Mrs. Flower; those absent were Governor Altgeld, Messrs. Judy, and Morgan, and Mrs. Dr. Smith.

The minutes of the last meeting were approved as presented by the Secretary.

President Draper laid before the Board his report to the State Superintendent of Public Instruction concerning the University. The report was approved.

President Draper presented the following report from Professor Davenport, Director of the Agricultural Experiment Station.

## REPORT OF THE DIRECTOR OF THE EXPERIMENT STATION.

UNIVERSITY OF ILLINOIS, November 30, 1896.

*A. S. Draper, President University of Illinois.*

DEAR SIR:—During the quarter the University herd has been increased by two very fine bull calves, one a Shorthorn, and the other a Holstein-Friesian. Both are fine specimens and will do us credit, if they develop as they promise. The cows are considerably milked down, but are in thriving condition, and the bulls are really coming to be something unusually fine.

We are yet putting a good share of the energy of the Station into the question of the best methods of supplying milk to the city trade. There are many and perplexing problems involved, a few of which are peculiar to our conditions, but most of which are inherent in the business.

Mr. Fraser nominally took charge of the work in August, but at that time, and because of the sickness of Professor Holden for a considerable time after, he was very much occupied with the affairs of the field and in helping to install the new order of things. Since he has confined his attention to the milk trade he has put a force into things that has not hitherto appeared in the management of this feature of our affairs. He spent nearly two weeks during November in the Elgin district in studying methods and machinery there, and I have great reason to hope that at last we have a management that will manage

I am not at all satisfied with the condition of experimental work left behind by Mr. Powers to be embodied into a bulletin on pasteurization. Most of his work was done before a Director was appointed, and it happened to be a case that needed more than ordinary direction. I succeeded in bringing his ex-

periments to a close and in obtaining most of the results of his work in a very indifferent shape. By putting work enough into this matter it will be possible to make something of a bulletin on the subject.

At the last meeting of the Board of Direction in June it was voted to buy at least fifteen sheep and to expend thirty dollars for hogs. I bought soon after five good breeding ewes of E. E. Chester. The prevalence of hog cholera made it seem unwise to engage in a feeding experiment with hogs, and after considerable delay I carried out the spirit of the resolution in what seemed to me the best way, by purchasing twenty-seven lambs for winter feeding.

More than 2,000 bushels of corn have been harvested, most of which involves some sort of experiment. That grown on the 140 plats of one tenth acre each was most carefully harvested. On each plat the yield of grain and stover was taken separately to learn the "personal equation" of each piece of ground. Yields have ranged from seventy bushel to ninety-six bushels per acre, which latter is more than double the average yield of good corn, and very near the upper limit of the crop.

Whenever the so-called "corn disease" appeared careful maps were made locating every affected hill and so accurate is the work that we shall be able to tell if the disease appears on a given spot another year, even to a particular hill.

A new method of correcting for variations in yield, due to soil differences, was devised and tested this year with very satisfactory results. It consists in repeating frequently the same variety or treatment as a standard, and we are extending the principles into experimental feeding by comparing everything with a "standard feed."

A corn breeding experiment is unique and has developed many curious facts. This is mainly because care was taken to separate the seed before shelling into the thirteen different types to be found in the variety. Plantings were made from the predominant types and for various mixtures and the result shows that certain types are greatly more persistent than others, but that there is general correspondence between planting and crop. Experiments this year show disastrous results from self-fertilization of corn, and nothing but the mass of notes can adequately show the curious results of the many different plantings.

The rape plant this year proved a valuable forage crop with us, but no better results than heretofore have followed the attempts to grow crimson clover. Kafir corn has flourished, but the yield, which is about forty bushels an acre, is too small to be profitable where Indian corn will succeed.

In the horticultural department Mr. Blair has been busy in removing useless trees and hedges, renovating orchards and sod, trimming borders, and repairing walks and drives, and in giving things a general air of tidiness. He will make plantings of small fruits in the spring that will add to the attractiveness of the gardens, and be in a sense something of an experiment. He has also tested the possibilities of straightening trees that had commenced to lean to one side. An elm by the warehouse was carefully brought to an upright position, and its future behavior will be carefully noted.

The chemical laboratory is fairly established in Natural History Hall, and apparatus, to replace that destroyed by the fire, is well in for a restricted line of work. What has been bought is of excellent quality. Samples of soil from Odin and Edgewood have been secured to replace those lost by fire, and many samples of corn are in preparation for analysis in anticipation of an exhaustive study of the chemical composition of corn and its variability.

Dr. McIntosh, in company with Dr. Burrill, has examined many specimens of the so-called hog cholera, but with negative results, the indications being that the disease was principally swine plague rather than hog cholera.

## ESTIMATES.

<i>For Quarter Ending December 31, 1896—Farm Fund.</i>	
Feeding stuffs.....	\$30 00
Tools, implements and machinery.....	25 00
Live stock.....	71 75
Traveling expenses.....	30 00
<b>Total.....</b>	<b>\$156 75</b>
<i>For Quarter Ending March 31, 1897—General Fund.</i>	
Salaries.....	\$1,938 00
Labor.....	385 00
Publications.....	300 00
Postage and stationery.....	25 00
Freight and express.....	15 00
Heat, light, and water.....	60 00
Seeds, plants, and sundry supplies.....	262 00
Feeding stuffs.....	100 00
Library.....	175 00
Tools, implements, and machinery.....	125 00
Furniture and fixtures.....	10 00
Scientific apparatus.....	275 00
Traveling expenses.....	30 00
Buildings and repairs.....	50 00
<b>Total.....</b>	<b>\$3,750 00</b>
<i>From Farm Fund.</i>	
Labor.....	\$440 00
Seeds, plants, and sundry supplies.....	300 00
<b>Total.....</b>	<b>\$740 00</b>

The schedule of estimates for the winter quarter is self explanatory.

Respectfully submitted,

E. DAVENPORT,  
*Director of the Experiment Station.*

Appropriations were made of Experiment Station funds according to the estimate by the Director.

The President reported that the Faculty of the University recommended Mr. C. M. Lewis for the degree of B. S. in Architecture, he having completed the course in due form, and the Board authorized the President to confer the degree.

Appropriations were made according to the recommendations of the following paper:

*To the Board of Trustees:*

I respectfully recommend the following appropriations to departments:

1. For the Astronomical Department, the sum of \$100 for apparatus, viz.: a barometer.
2. For the Department of Mechanical Engineering, \$150 for unusual operating expenses in the laboratory.
3. For the Department of Agriculture, the sum of \$250 for the purchase of cows and apparatus, in preparation for the Winter School.
4. For the Department of Physics, the sum of \$600 for apparatus.
5. That the sum of \$95 be appropriated to the Department of Zoölogy for apparatus for the class in embryology.

Respectfully submitted,

A. S. DRAPER,  
*President.*

The Business Manager was authorized to contract, upon receiving a satisfactory bid, for furnishing the chemical and botanical laboratories of the University with supplies and apparatus, to be imported, not exceeding \$1,600 in amount.

#### LAW SCHOOL.

President Draper presented the following recommendation as to the organization of a Law School as a part of the University:

*To the Board of Trustees.*

The time has arrived when it seems to me that the interests of the University imperatively demand that the Board shall take decided steps looking to the organization of a Law School. This can be established here without very great difficulty or expense. In order to insure it at the opening of the next University year I recommend:

1. That the Board appropriate \$3,500 for the salaries of instructors during the year 1897-98.
2. That the Board appropriate \$3,000 for the purchase of books.
3. That the Board appropriate \$500 for any other other expenses necessarily incurred in this connection.
4. That the President be authorized and requested to present to the Board, at as early a date as practicable, detailed plans for the contemplated School.

Very truly yours,

A. S. DRAPER,  
*President.*

It was voted to establish a Law School as proposed, and appropriations were made therefor as recommended.

The Business Manager was authorized to lease, for use of the Experiment Station, two tracts of land, one for \$25 a year rental, at Odin, and the other at \$10 a year rental, at Edgewood.

The request for a messenger in the College of Engineering was postponed.

The report of the Superintendent of Buildings and Grounds was referred to the Committee on Buildings and Grounds.

Mr. McLean offered the following resolution, which was adopted:

WHEREAS, The Chicago College of Pharmacy has become the School of Pharmacy of this University; in order that this Board may be fully and promptly advised of the doings and workings of said School, therefore be it

*Resolved*, That a standing committee, consisting of five members (the President of the University and the Business Manager being two of these) be appointed, which shall report to this Board at its regular meetings concerning the School of Pharmacy.

#### MEDICAL SCHOOL.

The special committee, to which was referred at the meeting of the Board held Sept. 15, 1896, propositions from two medical schools of Chicago, made the following report.

*To the Board of Trustees.*

Your committee appointed at the last regular meeting, to consider a proposition from the College of Physicians and Surgeons of Chicago, looking to

the absorption of that institution by the University, respectfully reports that the committee visited the institution in October and thoroughly inspected the same. It held a very full conference with the officers thereof, and it has since received from them a statement showing the receipts and expenditures of the institution during the three years prior to the present one. The proposition of the Board of Trustees is, briefly, to the effect that they shall rent to the University the property of the College, consisting of the College building and of its furnishings and appurtenances, and transfer to the University its good will; and that the University shall thereupon assume the full authority for the future conduct of the institution.

The College of Physicians and Surgeons seems to stand exceedingly well in the public sentiment of Chicago. It is certainly one of the three most prominent and thoroughly well established institutions of its character in the city. Its location, in close proximity to the Cook County General Hospital, is highly advantageous. Its building is not of such a character as we would construct upon the part of the State of Illinois, but it is exceedingly roomy and apparently very well adapted to the purpose for which it is used. There were about 280 students in the institution last year and we are advised that there are 310 registered up to the present time this year. It seems to be shown that the tuition fees go considerably farther than is necessary to meet the expenses.

The committee is of the opinion that the University could absorb the institution without being in any danger of incurring expense in behalf thereof. If the same result should be obtained in this connection as in the case of the School of Pharmacy it would apparently be a good step for us to take. Doubtless the assumption of the institution by the State University would serve to increase materially the attendance. On the other hand, the students and alumni of the College of Physicians and Surgeons would thereby become related to and interested in the State University, and that fact would operate to our advantage in many ways. Again, it is surely incumbent upon the State of Illinois to maintain professional schools in connection with its State University, and particularly to exert its great influence towards the uplifting of medical training and practice.

It does not seem important that there should be any special haste about the matter, for the reason that the institution is fully organized and it is not imperative that there should be any decided steps taken until nearer the close of the present college year.

The committee therefore recommends:

1. That, without entering into any agreement in the matter, the Board express its intention of accepting, at a later day, the proposition made by the Board of Trustees of the College of Physicians and Surgeons, reserving to itself, of course, the right to suggest or require modifications as to detail.

2. That the Board of Trustees appoint a committee, or continue the present one, with instructions to proceed with the investigations and perfect plans as to details, and report thereupon at a subsequent meeting.

Your committee was also charged with the duty of reporting upon a proposition from the National Medical College in Chicago, looking to an absorption of that institution. The committee visited the institution, held interviews with its officers, and thoroughly considered the whole matter. Practically, in view of our recommendation as to the College of Physicians and Surgeons, it is thought inadvisable to take any steps in connection with the National Medical College at present.

Respectfully submitted,

JAMES E. ARMSTRONG,

*Chairman.*

The report of the committee was approved and the committee was continued with instructions to report further at the March meeting of the Board.

A bill for legal services was presented from Messrs. Mann, Hayes & Miller. While this bill was under consideration the following resolution, offered by Mr. McLean, was adopted.

*Resolved*, That the Finance Committee be requested to communicate, by correspondence or otherwise, with the attorneys who have charges against this Board for legal services in relation to obtaining payment of appropriations, and ascertain which of said attorneys performed said services, and adjust, if possible, reasonable fees for such services and report to this Board at its next meeting.

President Draper's bill for traveling expenses amounting to \$130.40 was approved and ordered paid upon recommendation of the Finance Committee.

The Committee on Instruction presented the following report, which was adopted.

#### SUMMER SCHOOL.

*To the Board of Trustees.*

The Committee on Instruction respectfully reports that Professor Forbes has presented to the Committee a proposition involving the continuance of the Summer School opened by him last summer at the University Biological Station on the Illinois River, and widening its field of work. His plan contemplates a united effort between himself, Professor Tompkins, and Professor Burrill, together with some others, for the development of a summer school of very high grade in Biological work and in Pedagogy. The plan seems feasible to the Committee, and the very high standing of the men who project it is an assurance of the best work in the directions indicated. Such a school would have a distinguishing end in view and an individuality which would be unique. The gentlemen referred to desire the support of the University in the matter, although they assure the Committee that they are not seeking personal remuneration. After fully advising with them upon the matter, the Committee recommends as follows:

1. That the school may be established under the authority of the University.
2. That the several steps taken in connection therewith shall be with the approval of the President of the University.
3. That the University shall be responsible for any deficit in expenses, not including the salaries of any instructors, up to the limit of \$500.00.
4. That the tuition fees, if they shall exceed the expenses, shall be divided among the instructors as they shall agree.

The matter of a women's dean, which was talked of at the last meeting has been considered by the Committee on Instruction, and several very desirable women have been suggested for the place. The Committee respectfully recommends that President Draper be authorized, as soon after Christmas as practicable, to have personal interviews with these women, as it is important that the right person should be obtained, and a personal interview would go farther than any amount of recommendations.

Respectfully submitted,

LUCY L. FLOWER,  
*Chairman.*

The resignation of Mr. W. A. Snow of his position as Entomological Assistant in the State Laboratory of Natural History was, on recommendation of the Committee on Instruction, accepted, to take effect November 20, 1896.

Upon further recommendation of the Committee, the Director of the Laboratory was authorized to employ Mr. C. C. Adams, of Bloomington, at a salary of \$40.00 a month for such time as may be necessary, not to extend beyond June 30, 1897; and to engage Mr. H. O. Woodworth, of Champaign, from time to time, as may be necessary, for field entomology, at \$3.00 a day. Also on recommendation of the Committee, Mr. C. A. Hart's salary was increased to \$900.00 a year for the last half of the current fiscal year.

President Draper announced to the Board that Miss Katharine Merrill had resigned her position as Assistant Professor of the English Language and Literature the resignation to take effect August 31, 1897. The resignation was accepted.

Professor Breckenridge and Mr. Bullard made a report of an inspection of heating, lighting, and power plants, which they had made by order of the Board.

#### HEATING, LIGHTING, AND POWER PLANT.

URBANA, ILL., December 5, 1896.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—We have visited the universities of Wisconsin, Ohio, and Michigan, have carefully inspected their systems of heating, lighting, and power distribution, and take pleasure in making to your honorable body the following report:

We found the authorities at each University very anxious to show us every attention, and we were given access to all the information possible. We met in each case the person in charge of the plant, and have much valuable data from these plants concerning cost, as well as details of construction. We have arranged in tabular form most of the information obtained and this table accompanies this report in blue print form.

#### GENERAL FEATURES COMMON TO ALL PLANTS INSPECTED.

All the plants inspected have all their boilers in one station, all distribute the steam through pipes carefully covered and suspended in tunnels. Each plant has a large and high brick stack producing strong draft. All water of condensation is returned to boiler house.

#### SPECIAL FEATURES OF NOTE AT THE DIFFERENT PLANTS.

*University of Wisconsin.*—Here the boilers are all equipped with the "Roney Mechanical Stokers" and the coal delivered to the boiler house is all weighed, dumped into a hopper, and elevated to coal bunkers in front of the boilers. The ashes are elevated to a platform outside of the house and carted away each day. Very much noise and dust accompany this work. Here there is no lighting plant, but we were told that \$25,000 would be asked for this year for this purpose, and an addition would be built to the present boiler house for this work.

They have a Gren Economizer, capacity 500 H. P., for heating the feed water by escaping gases, as well as a forced draught outfit, of the same capacity, consisting of fan and engine combined. This is used in severe weather to increase the capacity of their plant. They do all their own pumping of water for university uses, besides pumping water for use at the Capitol nearly a mile away. But very little smoke was made, but sometimes they introduced a steam jet above the grate bars. The floor of the boiler house is about 15 feet below grade. Size of boiler house is 55x100x25.

Three cuts accompany this report showing the interior of their boiler room, the interior of their pumping plant, and a corner of the boiler house. The most important data are on the blue print.

*University of Michigan.*—A cut of the boiler house and chimney is shown on page eight of this report. The floor of the boiler room is about 13 feet below grade. The tunnels are quite extensive, making a complete circuit of the rectangular campus. The tunnel runs under nearly all the buildings heated, and advantage is taken of any heat radiated from the pipes by letting it into the basement of the buildings. No stokers are used. The chimney is a handsome one.

The part of the building extending to the left is the lighting plant. They have not, however, installed in it any generators, but will ask for money for this lighting machinery from the coming legislature. There are engines in different buildings now running from the high pressure mains in the tunnels. This feature they consider bad and hope to avoid as soon as possible.

*Ohio State University.*—This plant is still in progress of construction and was perhaps the most instructive of any plant inspected. Their boiler house is 55x100; their engine house is 40x60, with a sub-basement, 8 feet clear head-room. This basement is cemented and serves as a store house and place for condensers and transformers.

Their coal handling machinery, which has recently been installed, was the most perfect arrangement seen. It operated with much less noise and with but very little dust. Their ash conveyor runs the entire length of their boiler house, and the ashes are automatically delivered into a hopper from which they can be drawn into a wagon.

They have installed in their boiler house three types of mechanical stokers, the Murphy, the Acme, and the Babcock & Wilcox chain grate. They evaporate 8½ pounds of water per pound of coal, using nut and pea sizes. The smoke issuing from their chimney was very slight. Their piping arrangements and small details were the most perfect of any which we saw, and when their plant is completed it will be a model plant. Their plan of operation is to generate electricity in their engine house and distribute it for power and lighting purposes. They have already installed eleven (11) two-phase motors aggregating 160 H. P. These operate the fans for ventilation in the several buildings where that system is employed, as well as the different departments of their shop practice work. The wires are all carried to the buildings through the tunnels.

They have in course of construction three new buildings, and have just completed 1,100 feet of new tunnel, using paving brick for its construction, it being somewhat larger, and, according to their experience, more satisfactory.

#### NEEDS OF THE UNIVERSITY OF ILLINOIS RELATING TO NEW CENTRAL HEATING, LIGHTING, AND POWER PLANT.

Our present heating plant has been the result of continually adding to a plant originally designed for heating two buildings. The boiler house is only 30x75, and the operations of firing, cleaning, and repairs are often carried on with much difficulty and loss of time. Our boilers are not working efficiently for want of a proper draft; our chimney is a continually smoking nuisance; and our boiler house is so situated that the usual direction of the smoke is over and into our buildings. A large part of the water of condensation is not returned to our boiler house, involving increased fuel consumption for heating new water, as well as subjecting our boilers to increased scale formation. Upon the completion of our Library Hall we can not furnish sufficient steam for heating it. Neither can we set additional boilers in our present house or connect them to our now over-crowded chimney. We are also operating three small boilers at the shops situated at the other side of our campus, so that it is always smoky.

Under the conditions existing it seems very desirable to make a radical change in our entire plant, and reorganize on an entirely new basis. The following plan is suggested as a basis upon which to work:

1. Change location of our two present plants to the lowest point on our campus, *i. e.*, between Engineering Hall and the Machinery Building.



2. Build here boiler house, engine room, and dynamo room, either in one building or closely connected.
3. Building a new chimney.
4. Install all our boilers in the boiler house, all our engines in the engine room, and all our electrical machinery in the dynamo room.
5. Distribute steam for heating purposes through mains properly carried in tunnels.
6. Generate electricity at this plant for distribution through the tunnels, using it for both power and lighting purposes.
7. Install electric motors at all places where power is needed for running fans or operating machinery.

The advantages of such an arrangement as outlined above would be of the greatest importance. We should mostly eliminate the smoke nuisance. We should operate under maximum economic conditions both as to cost of fuel and labor. We should be able to use all our exhaust steam for heating purposes, and we could easily run 2,000 incandescent and 20 arc lamps without materially increasing our fuel consumption. We could put down a well and do a large part of our pumping. We could use a much cheaper grade of fuel. We could arrange for cheaper hauling by rail connections to our boiler house.

We should have a modern and model plant. Its value as an investment would be undisputed. Its value as an educational feature would be of the greatest importance to our engineering students. This fact is worthy of more than passing notice. Our students do not largely come from engineering centers, and they carry away wrong ideas from being educated in close proximity to poor engineering features.

*Costs*—It would cost to build and equip the plant outlined above, \$95,000.

The principal items of this amount are as follows:

<i>Buildings—</i>	
Boiler room, engine room and dynamo room.....	\$35,000 00
Chimney.....	6,000 00
Apparatus for mechanical draft.....	4,000 00
Construction of 2,200 ft. of tunnels at \$5.00.....	11,000 00
Coal and ash handling machinery.....	4,500 00
Additional boiler capacity—250 H. P.....	4,500 00
Automatic stokers (400 H. P).....	3,000 00
Moving old boilers.....	1,600 00
Putting steam mains and returns in tunnels, installing tanks, pumps, traps, etc.....	5,500 00
<i>Light and Power—</i>	
Electric light and power machinery at central plant, capacity 2,000 incandescent, 20 arc and 100 H. P. generators.....	7,500 00
Putting wires in tunnels from central plant to each building.....	2,500 00
Motors to replace engine now running.....	2,000 00
New engines for running dynamos.....	1,500 00
<i>Pumping Plant—</i>	
Installation of deep well pump, and pipes to all buildings.....	3,000 00
Plans, specifications and superintendence.....	4,000 00
Total.....	\$95,000 00

The electrical machinery now in the basement of University Hall would be more satisfactorily placed in a part of this building, and it would relieve the main building of dangers to which it is now subjected.

In addition to the matter submitted in this report, your committee has obtained some twenty-five large blue prints showing in detail the construction and general arrangement of the heating systems visited, as well as numerous photographs of buildings and special features seen at different places, all of which will be very useful, if such a plant should be erected at this University.

Very respectfully submitted,

S. A. BULLARD,  
L. P. BRECKENRIDGE.

The report of the committee was received and referred to the Committee on Legislative Appropriations.

The Treasurer's report was presented by the Secretary and was referred to the Finance Committee.

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS  
SEPTEMBER 30, 1896.

1896.	<i>Dr.</i>	
June	30 Balance.....	\$218,401
July	1 Received of Austin, Cook county, coupons, due July 1, 1896.....	\$575 00
"	2 Received of District No 3, Sangamon county coupons, due July 1, 1896.....	250 00
"	2 Received from bond No. 1, Sidney district No. 1, Champaign county, due July 1, 1896.....	840 00
"	2 Received coupons, Sidney district No. 1, Champaign county, due July 1, 1896.....	210 00
"	3 Received coupons, Champaign county, due July 1, 1896.....	2,250 00
"	3 Received coupons, Broadlands school district, No. 10, Champaign county, due July 1, 1896.....	50 00
"	6 Received coupons, school district No. 3, Montgomery county, due July 1, 1896.....	130 00
"	6 Received coupons, Litchfield school district, due July 1, 1896.....	440 00
"	8 Received coupons, Gallatin county, due July 1, 1896.....	630 00
"	8 Received part of coupons, Kankakee county, due July 1, 1896.....	1,900 00
"	8 Received coupons, Logan county, due July 1, 1896.....	750 00
"	8 Received coupons, Macoupin county, due July 1, 1896.....	618 00
"	8 Received coupons, Macoupin county, due July 1, 1896.....	1,800 00
"	8 Received coupons, Pike county, due July 1, 1896.....	2,030 00
"	9 Received from U. S. Experiment Station warrant, due July 1, 1896.....	3,750 00
"	9 Received credit, farm fund, per advice from W. L. Pillsbury.....	581 10
"	18 Received bond No. 1, Illiopolis school district, due July 11, 1896.....	1,000 00
"	18 Received coupons, Illiopolis school district, due July 1, 1896.....	100 00
"	25 Received from State Treasurer, U. S. appropriation, due July 1, 1896.....	22,000 00
"	28 Received bond No. 2, Taylorville township, due August 1, 1900, called under option.....	1,000 00
"	28 Received coupons, Taylorville township, due August 1, 1896.....	1,140 00
"	28 Received bond No. 173, Macoupin county, due July 1, 1899, called under option.....	500 00
"	28 Received balance of Kankakee county coupons, due July 1, 1896.....	500 00
"	28 Received coupons, Morgan county, due July 15, 1896.....	1,400 00
"	28 Received bonds Nos. 48, 49, 50, Pittsfield school district, due July 1, 1896.....	3,000 00
"	28 Received coupons, Pittsfield school district, Pike county, due July 1, 1896.....	630 00
"	31 Received from treasurer of Pope county, Minnesota, on account of excess of payment in taxes.....	31 02
August	3 Received bonds Nos. 25, 26, 27 and 28, district No. 1, Champaign county, due August 1, 1896.....	2,000 00
"	3 Received coupons, district No. 1, Champaign county, due August 1, 1896.....	360 00
"	3 Received coupons, Mattoon, Coles county, due August 1, 1896.....	150 00
"	4 Received bond No. 4, Morgan county, district No. 1, due August 1, 1896.....	1,000 00
"	4 Received coupons, Morgan county, district No. 1, due August 1, 1896.....	420 00
"	5 Received from State Treasurer, appropriation for Laboratory of Natural History, due July 1, 1896.....	9,900 00
"	10 Received from S. W. Shattuck, paid warrants on account of general fund.....	1,183 04
"	31 Received from S. W. Shattuck, paid warrants on account of general fund.....	903 92

*Treasurer's Report—Continued.*

1896.		<i>Dr.</i>	
August	31	Received from State Treasurer, payment of the following appropriations—	
		For Minnesota taxes.....	\$1,600 00
		For salaries, etc.....	90,000 00
		For addition to library.....	3,000 00
		For addition to apparatus and appliances.....	3,000 00
		For materials and shop practice.....	1,500 00
		For increase of scientific cabinets and collections..	1,000 00
		For one-half operating expenses of Biological Experiment Station.....	1,500 00
September	15	Received from S. W. Shattuck on account of farm fund	300 00
"	21	Received Montgomery county coupons, due August 1, 1896.....	60 00
"	28	Received from S. J. Hallquist, principal on contract No. 76.....	286 50
"	28	Received from S. J. Hallquist, accrued interest on contract No. 76.....	15 05
"	30	Received from S. W. Shattuck, on account of farm fund, paid warrants.....	443 44
"	30	Received from S. W. Shattuck, on account of general fund, paid warrants.....	3,010 73
"	30	Interest, June, July, August and September, 1896, on endowment fund balances, at 4 per cent.....	490 85
"	30	Interest, June, July, August and September, 1896, on all other balances, at 2½ per cent.....	1,714 85
			<u>\$390,344 53</u>
1896.		<i>Cr.</i>	
September	30	By amount paid out of general fund, as per list of warrants attached hereto.....	\$16,840 14
"	30	By amount paid out of endowment fund, as per list of warrants attached hereto.....	8,200 00
"	30	By amount paid out of U. S. Experiment Station fund, as per list of warrants attached hereto.....	5,610 86
"	30	By amount paid out of farm fund, as per list of warrants attached hereto.....	982 36
"	30	By amount paid out of U. S. fund, as per list of warrants attached hereto.....	3,452 43
"	30	By amount paid out of State appropriation for salaries, etc., as per list of warrants attached hereto.....	12,892 57
"	30	By amount paid out of State appropriation for Library Hall, as per list of warrants attached hereto.....	37,041 90
"	30	By amount paid out of State appropriation for library, as per list of warrants attached.....	347 25
"	30	By amount paid out of State appropriation for Laboratory of Natural History, as per list of warrants attached hereto.....	3,256 48
"	30	By amount paid out of State appropriation for cabinets, as per list of warrants attached.....	26 85
"	30	By amount paid out of State appropriation for Engineering College, as per list of warrants attached hereto.....	1,301 04
"	30	By amount paid out of State appropriation for Astronomical Observatory, as per list of warrants attached hereto.....	8,761 94
"	30	By amount paid out of State appropriation for fitting and furnishing Engineering Hall, as per list of warrants attached hereto.....	454 99
"	30	By amount paid out of State appropriation for building and equipment, Biological Experiment Station, as per list of warrants attached hereto.....	120 20
"	30	By amount paid out of State appropriation for apparatus and material, as per list of warrants attached hereto.....	353 47
"	30	By amount paid out of State appropriation for shop practice, as per warrants attached hereto.....	254 31
"	30	By amount paid out of State appropriation for Chemical Laboratory, as per list of warrants hereto.....	3,722 32
"	30	By amount paid out of State appropriation for fire protection, as per list of warrants attached hereto.....	18 14
"	30	By amount paid out of State appropriation for paving streets and walks, as per list of warrants attached hereto.....	466 14

*Treasurer's Report—Concluded.*

1896.	Cr.		
September 30	By amount paid out of State appropriation for establishing, equipping and maintaining laboratory for propagation of pure vaccine virus, as per list of warrants attached hereto .....	\$527 65	\$104,631 04
	Balances—		
	General fund.....	\$6,844 73	
	Endowment fund.....	36,172 43	
	United States fund.....	18,547 57	
	U. S. Experiment Station fund.....	1,108 05	
	Farm fund.....	495 48	
	State Appropriations—		
	For salaries, etc.....	84,861 23	
	For library building.....	107,166 95	
	For library.....	3,001 05	
	For Laboratory Natural History.....	7,460 32	
	For Cabinets.....	1,648 95	
	For Engineering College.....	4,922 66	
	For Astronomical Observatory.....	4,527 30	
	For fitting and furnishing Engineering Hall.....	1,470 71	
	For expenses of Biological Experiment Station.....	1,506 97	
	For apparatus and material.....	2,995 42	
	For shop practice.....	1,309 56	
	For Laboratory of Vegetable Physiology.....	88 02	
	For fire protection.....	952 20	
	For paving streets and walks.....	63 09	
	For Laboratory of Pure Vaccine Virus.....	2,472 35	
		\$287,615 04	
	Less Overdrafts—State Appropriations—		
	For building and equipping Biological Experiment Station.....	\$6 97	
	For Chemical Laboratory.....	1,894 58	
		1,901 55	285,713 49
			\$390,344 53

On motion of Mr. Raymond, a rebate of \$200.00 was allowed the tenant on the south farm on his rent due September 1, 1896.

The Board then adjourned to meet at 9 o'clock a. m. Wednesday morning.

## SESSION OF WEDNESDAY MORNING.

When the board met pursuant to adjournment the same members were present as on Tuesday afternoon.

The question of furnishing steam heat to the contractors of Library hall was referred to Professor Breckenridge and the Business Manager with power to make a contract with regard to this matter, if they deemed it best to do so.

The request of Mr. J. J. Johnson to be paid for clothing lost at the time of the fire in the Chemical Laboratory was not granted.

The committee on legislative appropriations made the following report:

## STATE APPROPRIATIONS.

UNIVERSITY OF ILLINOIS, Dec. 8, 1896.

To the Board of Trustees:

The committee appointed at the last meeting to report to the board touching requests which need to be made of the legislature in behalf of the University, respectfully offers the following:

The legislature should be asked, immediately upon assembling, to pass an emergency appropriation bill restoring to the sum appropriated for general operating expenses the amount taken therefrom to repair Chemical Laboratory so that it could be temporarily used, and to make good the loss upon the chemicals and apparatus. The amount, as stated by the business manager, is \$14,461.13.

The following items should, in the judgment of the committee, be provided for in the general university appropriation bill:

1. It is imperative that provision shall be made for a new central heating plant, as the present one is altogether inadequate for the increasing needs. The new buildings can not be warmed by it. It is old and a portion of the boilers are unfit for use and never used except in emergencies. It is a menace to University Hall. It seems advisable to the committee that when a new central heating plant is constructed provision shall be made in it for housing the electrical apparatus now in the basement of University Hall, thus removing the menace which that plant is to the safety of the large building. For this purpose \$85,000.00 is necessary.

2. The burning of Chemical Laboratory in August last creates the necessity for a new structure to take its place. The chemistry department is one of the most important in the University. Indeed it may be said that it is of more consequence than that of any other university in the west. The old building has become inadequate to its needs. Following the suggestion of the Board, made at the time the building was patched up for temporary use, we recommend that the legislature be asked to make provision for a new building. The committee is of the opinion that \$75,000.00 will be needed for the structure and that \$20,000 more will be needed for furnishing and equipping it.

3. The University has long stood in need of an agricultural building. The need is so apparent, and the interest so great and so representative of the people of Illinois, that there is no necessity for arguing it. We think a separate building should be erected with an attached or adjacent structure in which may be carried on a school, teaching by practical demonstration all of the various processes of dairying. These two structures together can doubtless be erected for \$80,000.

4. We recommend the appropriation of the sum of \$20,000.00 for reconstructing the old Chemical Laboratory. Although the interior of that building was entirely destroyed, the outer walls were left intact, and a new and substantial roof has been placed upon it and the interior quickly fixed up for temporary use. A moderate sum of money would reconstruct this building so as to make it altogether worthy of use for some other needed university purpose. The purpose to which it seems best adapted, and which is most pressing, is that of a women's building, and we are of the opinion that the sum needed would admirably adapt it to that end. The needs of the women's department are certainly great. It is in contemplation that there shall be a dean of that department appointed at an early day. There is necessity for an office and meeting rooms, as well as for a gymnasium, toilet accommodations, etc. The number of women students at the University is less than it should be, and may readily be increased if proper provision is made for them. We think that the interest is of so much consequence that all friends of the University are agreed that we need a distinctive building devoted to the interests of the women students.

5. We can not with propriety longer delay the erection of a men's gymnasium. Military hall is now devoted to gymnasium purposes. It has no proper conditions for a gymnasium and its use as such materially interferes with military drill and instruction. Our own professor of military science has complained about this, and at his recent visit to the University Major General Wesley Merritt sharply called attention to it. We have a large number of young men whose health the University is bound to conserve. They need every facility for physical training and exercise, as well as accommodations for toilet and bathing purposes. A building could be suitably constructed, with apparatus, baths, etc., for \$60,000. We think it should be asked for.

6. The ordinary growth of the University necessitates an increase in the appropriation for operating expenses. At least \$110,000 a year has become necessary.

7. The library building is going to be very nearly, but probably not quite finished out of the appropriation already made therefor. That appropriation has been taxed for iron book stacks when it was not so intended. It will be necessary for the legislature to make an appropriation to complete the building. We think \$5,000 will be sufficient for that purpose. It will also be necessary to make an appropriation for furnishing the building, for which we think the sum of \$8,000 will be moderate but will suffice.

8. Our library needs augmentation. For years the legislature has postponed liberal appropriations for this purpose on the ground that we lacked library accommodations, but provision has now been well made in that direction. The committee is of the opinion that the legislature should, at the least, give us \$20,000 for each of the two succeeding years for library purposes.

9. The College of Engineering will always be under the necessity of liberal support, if it is to maintain its position at the head of such institutions in the West. An engineering equipment is expensive. It deteriorates rapidly, and the progress of invention creates the continual necessity of reinforcing an extension of equipment. At least \$25,000 per year is necessary in this connection.

10. The equipment of the Astronomical Observatory needs to be supplemented. The building has been erected and some of the equipment purchased and installed, from the appropriation made by the last General Assembly. The professor in charge submits a detailed statement showing the need of an appropriation of between \$9,000 and \$10,000. We recommend that the sum of \$7,000 be asked for this purpose.

11. The board has frequently considered the the importance of purchasing the two pieces of property within our general boundaries and known as the Chase property, and no one can look over the University without seeing the desirability of doing so. The property was offered a year or more ago for \$7,000, and we advise that the sum of \$15,000 be appropriated for its purchase and the purchase of other property adjoining our grounds valued at about \$8,000.

Tabulating the foregoing recommendations, and including some small and usual items, the committee recommends that the legislature be asked to appropriate the following amounts:

Taxes on Minnesota lands (per annum) .....	\$1,800
Additions to apparatus and appliances (per annum) .....	3,000
Materials for shop practice (per annum) .....	2,000
Increase of scientific apparatus and collections (per annum) .....	1,000
For fire protection (per annum) .....	1,000
For maintenance of buildings and grounds (per annum) .....	3,000
For bridge over Silver Creek on Burrill avenue .....	800
For maintenance of Vaccine Laboratory (per annum) .....	1,500
For equipment of Astronomical Observatory .....	7,000
For purchase of the Chase and other property .....	15,000
For library books (per annum) .....	20,000
For extending engineering equipment (per annum) .....	25,000
For book stacks and other fixtures in Library Hall .....	5,000
For furnishing Library Hall .....	8,000
For salaries of administrative officers, teachers, and employes (per annum) .....	110,000
For Central Heating Plant, and for moving and installing electrical laboratory .....	80,000
For new Chemical Laboratory .....	75,000
Fixtures for Chemical Laboratory .....	20,000
For Agricultural Building and Dairy Laboratory .....	80,000
For Men's Gymnasium, baths, etc .....	60,000
For reconstructing old Chemical Laboratory for the purpose of a Women's building .....	20,000

To the above will have to be added the appropriations for the State Laboratory of Natural History, which have been submitted by Professor Forbes, as follows:

MEMORANDUM ESTIMATE OF STATE LABORATORY APPROPRIATIONS.

For field work and office and incidental expenses, per annum.....	\$1,500
For the improvement of the library, per annum.....	1,500
For salaries and assistance, per annum.....	4,000
For the publication of bulletins, per annum.....	750
For the illustration of the biennial report of the State Entomologist, per annum.....	250
For the expenses of the Illinois Biological Station, per annum.....	3,000

Respectfully submitted,

N. B. MORRISON,  
J. E. ARMSTRONG,  
S. A. BULLARD,  
A. S. DRAPER,

*Committee.*

Mrs. Flower offered the following resolution as an amendment to the report:

*Resolved*, That the old Chemical Laboratory be converted into a women's building, provided that a building be added or erected adjacent thereto and that between the two provision shall be made for the office of Dean of the Women's Department, suitable parlor and meeting rooms, gymnasium, with toilet and bathing accommodations, department of household economics, with refectory for the use of the university people in general, and a dining room and living accommodations for fifty or more women students, and that the appropriation asked for be increased to such sum as the Department of Architecture shall say is necessary for the several purposes above specified.

The amendment was adopted, and the report as amended was adopted.

A communication was received from Cunningham & Boggs with reference to the Bruner case. It was ordered that the balance of the Appellate Court costs, \$9.90, should be paid, and that the attorneys should be instructed to carry the case up to the Supreme Court.

The Secretary was instructed to reply to a letter from Mr. Palmer with regard to the McMurry case that the Board declined to take, at present, any step in regard to this case, inasmuch as it involves questions similar to those which will be passed upon by the Supreme Court in the Bruner case.

Mr. Morrison, from the Committee on Finance, presented the bond of Professor S. W. Shattuck as Business Manager. The bond was approved and deposited with the Secretary.

Mr. Pillsbury, as Registrar, presented his report of fees, etc., due from students of the University and of the Preparatory School for the quarter ending September 30, 1896.

This report was referred to the Finance Committee.

He also presented his report as Secretary, of the bonds belonging to the endowment fund which would fall due June 30, 1897, and the payments falling due on the land contracts during the same period; also a report of interest accruing on bonds belonging to the endowment fund during the quarter ending September 30, 1896.

These reports were referred to the Finance Committee.

On motion of Mr. McLean, the President of the University, and the Business Manager were instructed to report at the next meeting of the Board the name of some suitable person to be employed as an attorney of the Board, and also the terms upon which he could be so employed.

The Board then adjourned to meet at 2 o'clock p. m.

#### SESSION OF WEDNESDAY AFTERNOON.

Upon recommendation of President Draper \$150 was appropriated for running expenses of the Mechanical Engineering laboratory for the quarter ending March 31, 1897; also \$120 for the purchase of a volume fan and engine combined for use in experiments with different coals.

The Business Manager, Professor S. W. Shattuck, presented his report, which was referred to the Finance Committee.

#### BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, December 8, 1896.

*James E. Armstrong, Esq., President of the Board of Trustees, University of Illinois.*

SIR:—I have the honor to hand you herewith the following financial statements, and report for the three months ending September 30, 1896:

*Paper A* is a statement of the general current appropriations September 30, 1896.

*Paper B* is that of the State appropriations.

*Paper C* is that of the U. S. fund.

*Paper D* is that of the Laboratory of Natural History.

*Paper E* is that of the Agricultural Experiment Station.

*Paper F* is that of the School of Pharmacy.

*Paper G* is an estimate of receipts and expenses for the nine months ending June 30, 1897.

*Paper H* is a list of appropriations the Board is requested to make for the three months ending March 31, 1897.

*Paper I* is a report of my receipts for the three months ending September 30, 1896.

*Paper K* is a list of general University vouchers presented for audit, being 1 to 500, inclusive.

*Paper L* is a list of Laboratory of Natural History vouchers presented for audit, being 1 to 96, inclusive.

*Paper M* is a list of Agricultural Experiment Station vouchers presented for audit, being 1 to 77, inclusive.

*Paper N* is a list of School of Pharmacy vouchers presented for audit, being 1 to 38, inclusive.

*Paper O* is a bill of expenses which the Treasurer, C. W. Spalding, requests to be paid.



## PAPER A—CURRENT APPROPRIATIONS.

	Appropriated.	Expended.	Balance.
Board expenses .....	\$846 88	\$294 70	\$552 18
Salaries for instruction and for President { Current..... } { U. S. Fund. } { State..... } }	47,891 78	{ 3,923 25 } { 7,934 89 } { 9,613 19 }	26,420 45
Salaries for services .....	6,049 54	2,076 48	3,973 06
Buildings and grounds .....	984 90	171 23	813 67
Fuel and lights .....	4,955 01	1,300 19	3,654 82
Stationery and printing .....	1,043 42	591 88	451 54
Preparatory School .....	2,220 00	756 88	1,463 12
Repair shop .....	545 79	297 33	248 46
Mechanical Department .....	831 42	192 11	639 31
Departments .....	543 04	78 53	464 51
Laboratories .....	2,845 35	1,461 93	1,383 42
Library and apparatus .....	97 64	10 25	87 39
Incidental expenses .....	753 09	475 66	277 43
<i>Sundries.</i>			
Furniture and fixtures .....	406 48	37 55	458 03
Heating apparatus .....	482 65	63 64	419 01
Water supply .....	250 00	125 00	125 00
Minnesota lands .....	100 00	67 28	32 72
Greenhouse .....	100 00	15 79	84 21
Commencement .....	100 00	58 50	41 50
Senator Morrill's bust .....	45 00	45 00	.....
Stone posts .....	160 00	.....	160 00
Tenant farming, etc., in Illinois .....	75 00	.....	75 00
Architect's fees .....	445 56	445 56	.....
Watchman's register .....	100 00	.....	100 00
Interest and premium .....	310 98	310 98	.....
Attorney's fees .....	202 81	202 81	.....
South farm .....	25 00	.....	25 00
Coal house .....	100 00	.....	100 00
Accredited high schools .....	30 00	.....	30 00
Military scholarship .....	15 00	15 00	.....

## PAPER B—STATE APPROPRIATIONS.

	Received.	Expended.	Balance.	Assigned.
<i>For the Years 1893-1895.</i>				
Closed out .....	\$296,353 37	\$296,353 37	.....	.....
Buildings and grounds .....	47 77	47 77	.....	.....
	\$296,401 14	\$296,401 14	.....	.....
<i>For the years 1895-1897.</i>				
<i>Salaries, etc.—</i>				
Closed out .....	\$17,601 81	\$17,601 81	.....	.....
Salaries for instruction .....	83,563 19	72,714 74	\$10,848 45	\$10,848 45
Salaries for services .....	2,000 00	.....	2,000 00	2,000 00
Heating apparatus .....	1,200 00	600 80	599 20	599 20
Library catalogue .....	400 00	400 00	.....	.....
Buildings and grounds .....	1,500 00	1,042 17	457 83	457 83
Toilet rooms .....	375 00	292 50	82 50	82 50
Art and design .....	250 00	53 05	196 95	196 95
Physical training .....	1,220 00	818 17	401 83	401 83
School of Music .....	2,250 00	1,950 85	299 15	299 15
Lectures .....	1,000 00	.....	1,000 00	1,000 00
Agriculture .....	3,500 00	3,188 02	311 98	311 98
Preparatory School .....	190 00	70 60	119 40	119 40
Advertising and catalogue .....	2,900 00	1,276 07	1,623 93	1,623 3
Oratorical contest .....	100 00	.....	100 00	100 0
College of Literature and Arts, books .....	200 00	.....	200 00	200 0
Athletic fund .....	500 00	482 04	17 96	17 6
<i>Illini</i> .....	500 00	.....	500 00	500 00
<i>Ulio</i> .....	100 00	.....	100 00	100 00
Accredited schools .....	300 00	84 95	215 05	215 05
<i>Technograph</i> .....	100 00	.....	100 00	100 00
Signal bells .....	100 00	63 23	36 77	36 77

## Paper B—State Appropriations—Concluded.

	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc.—Concluded.</i>				
Botany .....	\$150 00	.....	\$150 00	\$150 00
Mechanical laboratory .....	150 00	.....	150 00	150 00
Chemical laboratory and repairs .....	9,080 00	\$5,787 40	3,292 60	3,292 60
Furniture and fixtures .....	400 00	34 94	365 06	365 06
Furnishing and fitting Astronomical Observatory .....	300 00	.....	300 00	300 00
Unassigned .....	50,070 00	.....	50,070 00	.....
	\$180,000 00	\$106,461 34	\$73,538 66	\$23,468 66
<i>Apparatus and materials—</i>				
Closed out .....	\$1,400 00	\$1,400 00	.....	.....
Applied chemistry .....	100 00	.....	\$100 00	\$100 00
Chemistry .....	700 00	327 24	372 76	372 76
Psychology .....	300 00	219 09	80 91	80 91
Zoölogy .....	800 00	470 59	329 41	329 41
Physiology and hygiene .....	800 00	288 62	511 38	511 38
Botany and horticulture .....	680 00	381 39	298 61	298 61
Geology .....	400 00	.....	400 00	400 00
Mathematics .....	300 00	.....	300 00	300 00
Unassigned .....	520 00	.....	520 00	.....
	\$6,000 00	\$3,056 93	\$2,913 07	\$2,393 07
<i>Operating Biological Experiment Station.....</i>	\$3,000 00	\$1,539 91	\$1,460 09	\$1,400 09
<i>Biological Experiment Station equipment.....</i>	\$2,500 00	\$2,500 00	.....	.....
<i>Taxes on Minnesota lands.....</i>	\$3,200 00	\$3,200 00	.....	.....
<i>Paving streets, etc.....</i>	\$9,300 00	\$9,236 91	\$63 09	\$63 09
<i>Astronomical Observatory.....</i>	\$15,000 00	\$10,572 70	\$4,427 30	\$4,427 30
<i>Laboratory of Vegetable Physiology.....</i>	\$2,000 00	\$1,911 98	\$88 02	\$88 02
<i>Library Hall.....</i>	\$150,000 00	\$42,835 05	\$107,164 95	\$107,164 95
<i>Fire protection.....</i>	\$2,000 00	\$1,145 30	\$854 70	\$854 70
<i>Library.....</i>	\$6,000 00	\$3,207 87	\$2,792 13	\$2,792 13
<i>Cabinets—</i>				
Geology .....	\$400 00	\$351 05	\$48 95	\$48 95
General .....	600 00	.....	600 00	600 00
Unassigned .....	1,000 00	.....	1,000 00	.....
	\$2,000 00	\$351 05	\$1,648 95	\$648 95
<i>College of Engineering—</i>				
Machine shop .....	\$17,008 04	\$17,008 04	.....	.....
Mechanical engineering .....	3,104 85	2,655 96	448 89	448 89
Electrical engineering and physics .....	3,829 85	2,861 51	968 34	968 34
Civil engineering .....	1,852 42	1,233 56	618 86	618 86
Laboratory of Applied Mechanics and Municipal and Sanitary Engineering..	1,852 42	313 06	1,539 36	1,539 36
Architecture .....	1,752 42	1,275 81	476 61	476 61
College of Engineering .....	600 00	243 57	356 43	356 43
	\$30,000 00	\$25,591 51	\$4,408 49	\$4,408 49
<i>Furnishing and Fitting Engineering Hall—</i>				
Electric wiring .....	\$1,191 77	\$1,191 77	.....	.....
Civil engineering .....	478 43	402 23	\$76 20	\$76 20
Architecture .....	770 38	555 96	214 43	214 43
Municipal and Sanitary Engineering .....	401 30	219 53	181 77	181 77
Mechanical department .....	563 78	220 83	342 95	342 95
Electrical engineering and physics .....	1,193 39	763 10	430 29	430 29
College library, parlor, etc .....	400 95	244 28	156 67	156 67
	\$5,000 00	\$3,597 69	\$1,402 31	\$1,402 31
<i>Shop practice.....</i>	\$3,000 00	\$1,843 68	\$1,156 32	\$1,156 32
<i>Chemical Laboratory.....</i>	\$5,000 00	\$3,584 70	\$1,415 30	\$1,415 30
<i>Vaccine Laboratory.....</i>	\$3,000 00	\$600 75	\$2,399 25	\$2,399 25

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1897.</i>				
Salaries for instruction.....	\$20,000 00	\$7,934 89	\$12,065 11	\$12,065 11
Unassigned.....	2,000 00	.....	2,000 00	.....
	\$22,000 00	\$7,934 89	\$14,065 11	\$12,065 11

## PAPER D—LABORATORY OF NATURAL HISTORY.

	Received.	Expended.	Balance.	Assigned.
<i>For the years 1895-1897.</i>				
General balance July 1, 1896.....	\$246 73	.....	\$246 73	\$246 73
Salaries.....	3,650 00	\$770 82	2,879 18	2,879 18
Field, office, etc.....	1,500 00	230 76	1,269 24	1,269 24
Library.....	1,000 00	157 16	842 84	842 84
Bulletins.....	500 00	102 65	397 35	397 35
Report of entomologist.....	250 00	35 00	215 00	215 00
Contagious diseases of insects.....	1,500 00	530 81	969 19	969 19
Biological Experiment Station.....	1,500 00	1,497 28	2 72	2 72
	\$10,146 73	\$3,324 48	\$6,822 25	\$6,822 25

## PAPER E—AGRICULTURAL EXPERIMENT STATION.

	Appropriated.	Expended.
<i>For the quarter ending September 30, 1896.</i>		
Salaries.....	\$1,927 45	\$1,927 45
Labor.....	908 92	908 92
Publications.....	452 25	452 25
Freight and express.....	25 36	25 36
Chemical supplies.....	47 12	47 12
Seeds, plants, sundries.....	113 55	113 55
Library.....	95 18	95 18
Tools and machinery.....	42 08	42 08
Furniture and fixtures.....	30 38	30 38
Scientific apparatus.....	13 10	13 10
Live stock.....	50 00	50 00
Traveling expenses.....	29 73	29 73
Contingent expenses.....	14 88	14 88
	\$3,750 00	\$3,750 00

PAPER F—SCHOOL OF PHARMACY.

	Appropriated.	Expended.	Balance.
<i>For the quarter ending September 30, 1896.</i>			
Salaries for instruction .....	\$2,250 00		\$2,250 00
Salaries for services.....	750 00	375 00	375 00
Buildings and grounds.....	2,000 00	1,037 41	962 59
Stationery and printing.....	100 00	45 88	54 12
Furniture and fixtures.....	100 00	38 16	61 84
Incidentals.....	200 00	80 52	119 48
Sundries.....	253 75	150 54	103 21
Advertising.....	1,000 00	910 07	89 93
Fuel and lights.....	500 00	310 25	189 75
Laboratories.....	1,000 00		1,000 00
	\$8,153 75	\$2,947 83	\$5,205 92

The Board is also requested to appropriate a definite sum to pay the expenses of the committee to inspect heating plants.

At the September meeting of the Board \$100.00 was appropriated for a detector clock, to be placed in each of the University buildings. No purchase has been made, as a desirable system would cost \$200.00, I am told.

In this connection attention is requested to *Paper P*.

It seems desirable that some action should be taken in regard to several of the land contracts, which, I understand, are delinquent in payments for two years. I believe that in some of these cases the land should be taken possession of by the University.

Attention is called to *Paper Q*.

Respectfully submitted,

S. W. SHATTUCK,  
*Business Manager.*

The following appropriations were made as recommended by the Business Manager:

APPROPRIATIONS.

University—			
Board expenses.....		\$400 00	
Salaries for instruction and President.....		27,000 00	
Salaries for services.....		3,300 00	
Buildings and grounds.....		1,000 00	
Fuel and lights.....		2,000 00	
Stationery and printing.....		500 00	
Repair shop.....		300 00	
Mechanical department.....		500 00	
Departments.....		400 00	
Laboratories.....		600 00	
Library and apparatus.....		50 00	
Incidentals.....		500 00	
Water supply.....		125 00	
			\$36,675 00
School of Pharmacy—			
Salaries for instruction.....	\$2,250 00		
Salaries for services.....	375 00		
Buildings, rents, etc.....	1,000 00		
Stationery, printing and postage.....	100 00		
Furniture and fixtures.....	100 00		
Fuel and lights.....	300 00		
Laboratories.....	100 00		
Incidentals.....	200 00		
			\$4,425 00
Agricultural Experiment Station—			
For quarter ending December 31, 1896.....	\$156 75		
For quarter ending March 31, 1897:			
General fund.....		3,750 00	
Farm fund.....		748 00	
			\$4,654 75

Papers I, K, L, M and N, presented by the Business Manager, were referred to the Finance Committee.

On motion of Mr. McLean, the Treasurer's bill, excepting the item of \$211.75 to J. S. Huey, attorney, was allowed and ordered paid: amount, \$110.45.

Professor Breckenridge's bill of traveling expenses, amounting to \$62.09, and Mr. Bullard's bill, amounting to \$77.40, were ordered paid.

The Business Manager was directed to correspond with those persons holding land contracts who had been long delinquent in the payment of interest, and to arrange, if practicable, for the payment of arrearages on said contracts, or for their surrender.

The matter of the payment of a note of \$1,500.00, falling due February 19, 1897, secured by mortgage on the property received from the Chicago College of Pharmacy, was referred to the Committee on the School of Pharmacy, with power to act.

The Committee on Buildings and Grounds made the following report:

URBANA, ILLINOIS, December 9, 1896.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your Committee on Buildings and Grounds desires to report upon matters referred to it as follows:

We recommend that a section of hose be provided in the place of the one destroyed by fire in the Chemical Laboratory last summer.

We recommend that a cement floor be placed in the corridor of the basement of Natural History Hall, and an appropriation of \$200.00 for this purpose. The basement is used constantly and it has become necessary that this work should be done.

We recommend an appropriation of \$400.00 for finishing the equipment of the Astronomical Observatory. This amount completes the work of the building.

We recommend that Professor White be paid \$100.00 in full for services and expenses in supervising and superintending the reconstruction of the Chemical Laboratory.

We recommend that the Superintendent of Buildings and Grounds place wire screens over the windows of Military Hall for their protection.

The construction of the library building is progressing in a very satisfactory manner. The building will soon be enclosed, and so protected from the weather that work may be pursued during the winter. From the progress of the work during the existence of the contract we judge that the building will be completed on time, and will be in every satisfactory.

It is reported to your Committee by the architects that by a change in the plastering, preparatory to the decoration of the building, and the omission of such decoration as is included in the present contract, a saving of \$1,540.00 may be made. We recommend this change in the contract and that the amount thus saved, together with \$1,500.00 more, making a total of \$3,040.00, be appropriated for decoration in the building.

We recommend that the oak floor called for in the present contract be omitted from the two main wings of the basement of the building, and that a cement floor with white sanded smooth top be substituted therefor. This will result in a small reduction in cost, the exact amount of which we can not state.

respectfully submitted,

S. A. BULLARD,  
I. S. RAYMOND,  
LUCY L. FLOWER,

*Committee on Buildings and Grounds.*

The report was adopted and appropriations were made as therein recommended.

The President announced the following as members of the standing Committee on School of Pharmacy: Alex. McLean, chairman; Dr. Smith, N. W. Graham, President Draper and Professor Shattuck.

On motion of Mr. Raymond, the tenant on the south farm was given the privilege of deferring his January payment of rent to April 1, 1897, on condition of his paying 6 per cent interest on the amount so deferred.

The architects of Library Hall presented a design for a bronze tablet to be placed in the vestibule of that building. The design was approved, and it was ordered that a bronze tablet of the same design should be placed in Engineering Hall. For this purpose \$175.00 was appropriated.

The Committee on Buildings and Grounds was directed to take measures to prevent the further staining of the walls of Engineering Hall by the drippings from the sills of some of the windows, and \$100.00 was appropriated for this purpose.

The board adjourned.

W. L. PILLSBURY,  
*Secretary.*

JAMES E. ARMSTRONG,  
*President.*

## MEETING OF MARCH 9, 1897.

The Board of Trustees of the University of Illinois met in the President's office at the University at Urbana, Illinois, at 3 o'clock p. m., Tuesday, March 9, 1897.

The members present were Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Pearce, Raymond, Smith and Mrs. Carriel and Mrs. Flower; those absent were Governor Tanner and Mr. Inglis.

The recently elected members of the Board, Messrs. Smith and McKay, and Mrs. Carriel, had, each of them, before the meeting of the Board, filed with the Secretary the usual oath of office.

The minutes of the last meeting of the Board were approved as presented by the Secretary.

The Committee on the School of Pharmacy made the following report:

URBANA, February 13, 1897.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your committee on the School of Pharmacy, to which was referred the matter of the mortgage on certain lots deeded to the University by the Chicago College of Pharmacy, falling due February 15, 1897, reports that it found that Mrs. J. Frecksen, the holder of the mortgage, did not wish to extend the same. Your Committee also found that it would take some time, also that the cost would be considerable, to replace the mortgage. Accordingly the Business Manager was instructed to pay off the mortgage amounting, principal (\$1,500.00) and interest (\$45.00), to \$1,545.00. This was done and the mortgage was duly satisfied. Papers and documents with regard to the same are now on file in the Business Manager's office.

Respectfully submitted,

ALEX. MCLEAN,  
N. W. GRAHAM,  
S. W. SHATTUCK,

*Committee on School of Pharmacy.*

Mr. Morrison, from the Finance Committee, reported with regard to the matter of attorney's fees which was referred at the last meeting of the Board that he had made some inquiries with regard to the matter, but desired further time. On motion of Mr. Bullard, further time was given.

## ELECTION OF OFFICERS.

The President then announced that the next order of business was the election of officers, and called for nominations for the position of President of the Board.

Mr. Bullard nominated Mr. F. M. McKay, and there being no other nomination, Mr. McKay was elected President of the Board by acclamation and took the chair at once.

On motion of Mr. McLean, the President of the Board appointed Messrs. McLean and Raymond and Mrs. Flower to prepare resolutions concerning the services of Mr. Armstrong, the retiring President.

Mr. Armstrong nominated Mr. W. L. Pillsbury for the offices of Corresponding Secretary, Recording Secretary, and Registrar, and there being no other nomination, the election was made by acclamation.

On motion of Mr. McLean, the election of a Treasurer was made a special order for 10 o'clock Wednesday morning.

Messrs. Smith and Bullard were elected to constitute, with the President of the Board, the Executive Committee.

On motion of Mr. McLean, Andrew S. Draper was unanimously elected President of the University for the term of two years.

The President then presented his several recommendations:

#### THE WOMAN'S DEPARTMENT.

##### *To the Board of Trustees.*

I recommend that a new department in University administration be created, which shall be known as "The Woman's Department," at the head of which shall be an officer whose title shall be "Dean of the Woman's Department," and I propose the following general outline of the functions of this officer:

1. The Dean of the Woman's Department shall be charged with the general oversight of all the women students of the University. She shall seek to become their representative, guide and friend. It shall be her duty to aid and advise them in their University work and in social life, to the end that the highest attributes of independent but true womanly character may here be developed.

2. She shall seek the improvement and extension of those lines of University work in which women students are most interested, and shall endeavor to enlarge all instrumentalities which will promote their physical and intellectual vigor.

3. She shall seek the fullest information touching the progress of events throughout the world, which are of special interest to women, and shall represent the Woman's Department of the University upon public occasions and in the educational and periodical press, whenever it seems advisable and practicable to do so, without engaging in extreme and doubtful projects or entering into controversies about which the people are widely divided.

4. She shall be expected to have constant knowledge of the work and effectiveness of all the women teachers in the University, and to advise with and suggest to them and, if necessary, direct them as to all matters within the field of her general duty.

5. She shall be a member of the Council of Administration and invested with the powers and duties of such position.

I also recommend that for the present the position of Dean of the Woman's Department be coupled with that of Assistant Professor of the English Language and Literature, soon to become vacant through the resignation of Miss Merrill, and that the salary for the next year be \$1,500.00 for the positions so combined.



I nominate for Dean of the Woman's Department, and Assistant Professor of the English Language and Literature, Miss Violet D. Jayne, of Minneapolis, Minnesota. Miss Jayne graduated from the University of Michigan, taking the degree of A. B., in 1887. She made a specialty of English Literature during her under graduate course. In 1887-88 she was assistant principal of the high school at Crookston, Minnesota. In 1888-89 she spent her time at Ann Arbor in study. In 1889-91 she had charge of the English department at the State Normal School, Oshkosh, Wisconsin. 1891-92 was spent in Europe, passing two semesters at the University of Zurich, Switzerland, where she made a specialty of German literature. Her travels in Europe took her to Holland, Germany, France, Switzerland, Italy, Greece, and Turkey. In 1892-3 she had charge of the English department at Wheaton Seminary, Norton, Massachusetts. From 1893-96 she had charge of the English department in the State Normal School at San Jose, California. In 1896, after passing the required examination, she received the degree of A. M. from the University of Michigan, having studied for the same *absentia*. The present year she has been studying for the degree of Doctor of Philosophy at the University of Minnesota, specializing in English Literature. She expects to receive her degree there another year upon presentation of a thesis and by passing the required examinations.

I have communicated with the principal of the State Normal College at San Jose, California, and I have seen the principal of the State Normal School of Oshkosh, Wisconsin, and the presidents of the universities of Michigan and Minnesota, in reference to Miss Jayne, and have received from them the warmest commendations of her qualities. She is a woman of attractive appearance, quick intelligence, strong scholarship, greatly devoted to the interests of young women, and apparently possessing an ability to accomplish what she undertakes. She is thirty years of age, which is perhaps an immature age for so weighty a responsibility. Moreover she has never filled an independent administrative position, but she is very ambitious to do so and is confident of success; and with her thorough intellectual discipline and entire familiarity with university operations, I am led to have that confidence also. She is possessed of the spirit and is intensely interested in the work of State universities, and I think that fact is of consequence in connection with the position under consideration.

She is to sail in May and pass the summer in visiting and studying the places in England which have become historic as the birth-places of the masterpieces of English literature.

After the most painstaking investigation of all candidates giving any reasonable indication of meeting our demands, I have become convinced that Miss Jayne gives more promise of filling the position to our advantage than any other. I recommend her with an appreciation of how much is involved, but with much confidence that her appointment is a wise step for us to take.

A. S. DRAPER,  
*President.*

The Board concurred in the President's recommendations, on motion of Mr. Armstrong, and appointed Miss Violet D. Jayne Dean of the Woman's Department, and Assistant Professor of the English Language and Literature at a salary of \$1,500 a year, the term of service to begin September 1, 1897.

#### INSTRUCTOR IN RHETORIC.

*To the Board of Trustees.*

Miss Helen Butterfield has advised me that she does not desire re-appointment to her present position for another year. I respectfully recommend for appointment to the instructorship in rhetoric Miss Gertrude Buck, of Indianapolis, Indiana, at a salary of \$70 per month for ten months commencing

September 1, 1897, and upon the understanding that if her services are altogether satisfactory she shall remain during the ten months beginning September 1, 1898, and shall receive as salary therefor \$80 per month.

Miss Buck is a graduate of the University of Michigan, has taken her second degree there and is now a candidate for the doctor's degree at the same institution. She was assistant in English at the University of Michigan from January, 1896 to January, 1897. She is now teaching in the Indianapolis high school. I have received the strongest commendations for her from President Angell and Professors Isaac W. Demmon, John Dewey, and Francis M. Scott. Professor Scott says: "Miss Buck by nature and by training is better fitted for such a place than any other student I have ever had in my classes. While she was my assistant, at a merely nominal stipend, she did as much work as any instructor on the ground, at the same time carrying on her graduate studies, writing articles and addresses, and organizing plans for raising money for the women's gymnasium, performing numerous social functions, and doing all these things so quietly that no one not intimately acquainted with her could have had any suspicion of her phenomenal industry." Miss Buck has done some graduate work at the University of Chicago. She has already written not a little for the monthly magazines, including the *American Journal of Politics*, and the *Forum*. She has a strong article in the March *Educational Review*. I recently went to Indianapolis to see her and have acquired the belief that she is a young woman of unusual attainments who will be a more helpful assistant to Professor Clark in his very important department than any other person of whom I have knowledge.

I ought not to pass from this matter without expressing the regret which every one at the University feels at having Miss Butterfield leave us. She has filled her position admirably and won the esteem of everybody associated with the University. Our regret at losing her will be somewhat mitigated, however, by the fact that she leaves us to enter marriage relations which entitle her to the congratulations of her innumerable friends.

A. S. DRAPER, *President*.

The Board also approved this recommendation and appointed Miss Gertrude Buck, of Indianapolis, instructor in rhetoric upon the terms suggested by the President.

#### TRUBLE BETWEEN SOPHOMORES AND FRESHMEN.

*To the Board of Trustees.*

Upon the evening of January 21st last there occurred in Urbana a clash between members of the two lower classes of students, which was of sufficient consequence to become the subject of a report to the Board of Trustees.

For several years an effort has been made to induce students not to hold secret social gatherings. Hearing that this wish of the University authorities was likely to be disregarded, I sent for the President of the freshmen class twice in the fall term, advised him of our wishes in the matter, and offered a room and the protection of the University to that class for the purpose of a class supper. What was said in reply led me to believe that our wishes would be complied with. About 8:30 o'clock on the evening of January 21st, the mayor of Urbana telephoned me that there was an outbreak in the streets. I advised him that the University could not undertake to maintain the public peace, but would support the city authorities in any vigorous measures which they might take to do so. It turned out that the freshmen had prepared for a supper in a public hall and that the building had been assaulted by members of the sophomore class. Members of the freshmen class going to the hall were set upon and maltreated. The most active agent in causing disorder was a chemical compound which was foul smelling and dangerous to the extent that it would destroy clothing and burn the skin. One young lady received this in her eyes and in consequence was unable to see for several

days. Two students were arrested. The mayor finally dispersed the students by ordering the fire department to turn water upon them. The affair caused a great uproar among the students and was widely reported in the newspapers.

I looked upon this affair as thoroughly disgraceful. That young men should invite young women to go to a social gathering, and that young women should accept such invitations, with the perfect understanding that there was likely to be a physical contest, and that any student would throw a chemical into the face of another, knowing that it was likely to disfigure that face and destroy eyesight for life, was to me amazing.

I called a meeting of the Council of Administration at nine o'clock the next morning and we commenced an investigation which lasted almost uninterruptedly for ten days. Upon advice of the Council a convocation of all connected with the University was held at four o'clock upon the next afternoon after the occurrence, at which the degrading character of the affair was commented upon and the sense of right and decency in the student body was appealed to. Offenders were asked to come and admit their participation in order that there might be some excuse for leniency, but none came. The senior and freshman classes very soon held meetings and expressed their regrets.

For several days it seemed as though we should be unable to locate definitely the responsibility. I was surprised to find that the thought was very prevalent in the student body that it was disloyal for one student to inform against another, no matter how serious an offense had been committed. The position was taken that, while the University would look with disfavor upon tattling among students in all ordinary affairs, yet it was the duty of a student to answer all questions touching violation of law or grave misconduct endangering the life or reputation of an institution, and that students known to have material information of such misconduct and refusing to divulge it would be expelled. The greatest stress was laid upon efforts to ascertain who had procured, given out, or thrown the chemical which was the great agent for all the mischief, and also who had been in league with or opposed the police.

Early in the investigation the following letter was sent to the State's Attorney of Champaign County, which will indicate my views upon a very important phase of the subject:

PRESIDENT'S OFFICE, UNIVERSITY OF ILLINOIS.

January 25, 1897.

*Hon. A. J. Miller, State's Attorney, Urbana, Illinois:*

DEAR SIR:—It seems well to express to you the earnest desire of all connected with the management of the University that the students who threw a noxious and dangerous chemical, and who resisted the police in the streets of Urbana Thursday night last, shall be brought to justice. Students who were only present, or mere on-lookers, are probably not blameless, although there are some extenuating circumstances in their cases; but one who threw a chemical into the crowd, knowing that it would destroy clothing and was likely to disfigure the face or destroy the eyesight of another for life, deserves nothing short of imprisonment; and one who in any way participated in securing or preparing the foul compound, or otherwise contributed to the results deserves the same thing; so does one who resisted or assaulted the police; and one who has information which would convict another of a crime, and refuses to divulge it, becomes a participant therein, and is little less deserving of the severest punishment. No code of honor can be invoked to justify one in protecting an enemy of public order. These matters go to the very stability of society and to the very life of the University. The very fact that the evil doers are college students affords no shadow of excuse for them. Indeed their crimes are the more reprehensible and deserving of the severest punishment, because of their intelligence and because they ought to be counted upon to support rather than overthrow the law.

The University authorities are investigating every scrap of information bearing upon the unfortunate affair, with the intention of requiring all who have forfeited the privileges of the University to withdraw therefrom. As was to have been expected, we are experiencing some difficulty in securing reliable evidence fixing the responsibility upon individuals, but we have much information and the net-work is beginning to draw closely about a relatively small number who are apparently guilty. With your better facilities for compelling the attendance of all witnesses and examining them under oath, and with the aid of judicial forms and experience, I am sure you can locate the blame with greater certainty and come nearer reaching all who are culpable.

We shall be glad to put you in possession of such information as we have and will support you in all ways we can. If you should think that you need the assistance of associate counsel, the University will provide it, and we will be obliged to you for any evidence touching the guilt of students, which you or the police may have.

The most energetic action by the University and the public prosecutor, acting together, is demanded by all the circumstances of the case. There is every reason to believe that only a small number of students are seriously implicated. The rest should be relieved of the stigma which must rest upon all unless the guilty are punished. The people of the State who support this University, and who have a pride in its development, must be shown that the University is able to rid itself of the unworthy and that the people of the cities in which it is located have moral sense, civic pride, and nerve enough to take a course which will prevent a recurrence of such a flagrant violation of the public peace.

Very truly yours,

A. S. DRAPER,  
*President.*

The investigation revealed the fact that the chief of police of the city of Urbana was intoxicated upon the evening of the disturbance and was really in league with the mischief makers. The mayor of that city was advised by me, in writing, of that fact, and an offer made to aid him in securing the evidence which would establish the charge, but nothing was done by either the State's Attorney or mayor in the directions indicated.

A patient and painstaking investigation finally established the guilt of nine students, and as a result one of them was suspended for the rest of the year and eight were expelled.

No mistakes were made, for in each case there was a subsequent admission of the correctness of the finding of the council. No student was expelled who did not procure, distribute, or use the chemical, and who, in addition to this, did not either refuse information or answer untruthfully.

Subsequent to this investigation, at my request, all the members of the freshman class and all save half a dozen of the sophomore class have joined in assurances to the Council of Administration that they will attend no more secret class gatherings and will not engage in any assault upon students, and that they will do what they can to uphold the authorities of the University.

It will scarcely be appreciated by one not upon the ground, but it is nevertheless a fact that this affair caused us more trouble and put upon the University authorities a heavier weight of responsibility than we have heretofore been called upon to bear while I have been associated with the institution. To expel so many students, and thus break up their college course, is a serious matter. It involved a great deal of sorrow as well as perseverance on the part of the University authorities, and nothing but humiliation for the accused and grief for parents and friends. I am sure that if all students could have seen all phases of the matter, there would be no repetition of the conduct which necessitated this action.

We have done what we could to impress a useful lesson upon all connected with the University. I have no sympathy whatever with the idea that there is a standard of conduct and honor for college students which is at all different from the standards which all good citizens uphold and observe. Nor can

I look with indifference upon that tendency which is common in college life to shield another by refusing information or by lying, no matter of what offense that other may be guilty. Society could not exist upon such a basis, and neither can universities. When offenses are committed which tear down or stain the good name of a great institution, every true man's hand must be against the offender.

I believe all connected with the University see these things more clearly than before this unfortunate occurrence. I observe no resulting ill will among the students. The extent to which the Faculty and the students and the alumni of the University, as well as the people in the adjacent cities, and particularly the warmth with which the newspaper press of the State has sustained us in this trying emergency, is extremely gratifying.

I ought to add that the Faculty has been thoroughly united touching all that has been done regarding this unhappy incident in our University life, and that the members of the Council of Administration are specially deserving of commendation for the patience and persistence with which they pursued a tedious and trying investigation. The result certainly vindicates the wisdom of the Board of Trustees in creating the Council of Administration and in vesting that body with complete jurisdiction over the discipline of the University.

A. S. DRAPER,  
*President.*

Upon motion of Mr. Smith, the Board unanimously approved and heartily commended the Council of Administration in relation to the disturbances which recently occurred between the freshman and sophomore classes on January 21st last.

Upon motion of Mr. McLean, it was voted that the paper be printed as a part of the minutes of the Board.

The following resolution was adopted:

BASE-BALL GAME AT BELOIT.

WHEREAS, The University of Illinois base-ball team played an inter-collegiate game with the team of Beloit College at Beloit, Wisconsin, in May last under an agreement that Beloit should pay Illinois the sum of \$70.00 to cover their expenses and Beloit refused to finish the game because of an alleged erroneous ruling of the umpire and also refused to pay over the money, although they received all of the gate receipts and

WHEREAS, It was mutually agreed to submit the whole matter to Mr. Casper W. Whitney, athletic editor of Harper's Weekly, to decide what was right and to abide his determination and

WHEREAS, After hearing and considering the matter, Mr. Whitney decided that there was no ground for the Beloit team refusing to finish the game and that it should pay the money to the Illinois team without further delay, and

WHEREAS, The Beloit team still refuses to pay over the money, therefore

*Resolved,* That a respectful communication be sent to the Board of Trustees of Beloit College stating the facts and requesting said Board to require the Athletic Association or Managers at said College to pay said money to the Athletic Advisory Board of this University without further delay.

The following recommendations with regard to the management of the affairs of the Agricultural Experiment Station were presented by President Draper, and were adopted on motion of Mr. Raymond:

## AGRICULTURAL EXPERIMENT STATION.

By law the management of the Agricultural Experiment Station is vested in the Trustees of the University. That the two institutions are placed under one management signifies the legislative intent that they shall supplement each other and that their work shall be related. The Station work should be aided, whenever practicable, by the professors in the University and in return should afford material for their scientific courses. The accounts of the Station should be kept separately and the funds of each institution should be used for its work, but with a view to promoting the effectiveness of the other so far as is not inconsistent with its own interests. To secure results in the administration of the affairs of the Station it must have an organization of its own, with executive authority and centralized accountability; but to secure coöperative effort and that unity of spirit which is important among all the different interests under the management of the Trustees of the University, that organization must be subordinate to the general administrative officers of the University. It is of the highest moment that the work of the Station shall be of a practical character and bear directly upon the agricultural interests of Illinois and hence that the management of the Station shall have the advice, regularly and continuously given, of persons who may be safely assumed to represent those interests with intelligence and foresight. To attain these ends the following regulations are adopted for the administration of the Station.

1. The Dean of the College of Agriculture shall be, *ex-officio*, Director of the Agricultural Experiment Station.

2. The Director of the Station shall have the custody of all property appertaining to the Station; shall be responsible for its proper care, and shall see that all buildings, lands, roads, implements, animals, etc., are maintained in a thrifty and attractive condition; shall have supervision of the officers and employes of the Station, laying out their work so that it will be of interest and consequence to the farmers of the State, and shall see that that work is prosecuted with capability and assiduity and reported in timely bulletins; and shall employ such authorized assistants and laborers as may be necessary, require faithful service, and discharge them at his discretion. In a word, he shall be the administrative head of the Station, vested with complete executive authority, and charged with responsibility for carrying out the action of the Board of Trustees and attaining the purpose for which the Station was established, in the largest measure practicable.

3. The Board of Trustees will appoint all officers of the Station and fix their compensation, and will from time to time grant appropriations for paying other employes and laborers and meeting all the other expenses of the Station, but such employes and laborers shall be appointed by the Director. For any act, however, incurring financial liability, or continuing the same, the Director must find his authority in the action of the Board of Trustees.

4. The Director shall make formal, written reports to the President of the University on the first day of each month. These reports shall keep the President advised in a general way, of:—(a) changes in employes; (b) the operations upon the farm, so far as crops and their disposition are concerned; (c) the accession of animals and the death or disposition of any; (d) the results of the dairy operations; (e) the work of the horticulturists. (f) the character of experiments undertaken, and the progress thereof; (g) the progress of the work upon bulletins, and the publication of the same; (h) any other matters of interest appertaining to the Station. In the absence of specific directions from the Board of Trustees the Director shall advise with the President touching any unusual matter, and shall follow any directions which that officer may think necessary to give. And, prior to each meeting of the Board of Trustees, he shall deliver to the President, for transmission to the Board of Trustees, any information or recommendations which he may think well to offer that body.

5. All Station accounts shall be kept by the Business Manager of the University, and all business transactions shall be subject to the rules of the Board of Trustees concerning general University business.

6. The Director shall require officers having charge of experiments, or taking observations, to report the same to him with regularity and as often as the nature of the same may make it desirable, and he shall cause the records thereof to be neatly transcribed in substantial books for preservation.

7. There shall be an Agricultural Experiment Station Advisory Board consisting of the Director of the Station, the Vice-President of the University, the Director of the State Laboratory of Natural History, two members of the Board of Trustees to be appointed by the Board at the annual meeting at which it selects its own officers and one member to be appointed by the Board upon the recommendation of each of the following bodies, viz.: The State Board of Agriculture, the State Horticultural Society, and the State Dairymen's Association. The Advisory Board shall select its own presiding officer and shall meet quarterly in the week prior to the meeting of the Board of Trustees at such particular time as it shall determine. The Director shall lay all needed information touching the work of the Station before the Advisory Board, and it shall consider and recommend to the Board of Trustees such lines of policy and such scientific experiments as it believes of most consequence to the agricultural prosperity of the State. The Director shall keep a record of the proceedings of this Board and transmit its recommendations to the President of the University for presentation to the Board of Trustees.

Upon recommendation of the General Faculty authority was given to confer the degree of B. S. in Architecture upon Edward Ellsworth Orr. Also upon recommendation of the General Faculty it was voted to increase the number of Fellowships from six to eight, and to make the stipend attached to each \$300.00 a year.

The following resolution was adopted:

*Resolved*, That the Board of Trustees of the University of Illinois, in recognition of the liberality of the donors mentioned in the following list of persons and institutions, who have contributed valuable publications to the Astronomical Observatory of this University, returns to them severally its grateful acknowledgement and thankful appreciation of their generous courtesy:

Titles of Work.	No. of Volumes.	From What Institution.	By Whom Presented.	Value.
Harvard Photometry.....	25	Harvard College Obs'y..	Prof Pickering.....	\$125 00
Pub. of Amer. Ephemeris..	10	U. S. N. Obs'y.....	Prof. Newcomb.....	50 00
Pub. Washburn Obs'y....	8	Washburn Obs'y.....	Prof. Comstock.....	50 00
Star Catalogues.....	2	U. S. W. Dept.....	Superintendent.....	20 00
Von Engelhart's Pub.....	2	Priv. Ast. Obs., Dresden.	Baron v. Engelhardt	10 00
Pub. of von Kussner's Observatory in Vienna.....	4	Von Kussner's Obs'y....	Prof. L. D'Ball.....	40 00

Twelve or fifteen volumes of Coast Survey Reports by the Superintendent of the Coast Survey, and a large number of pamphlets and minor publications.

Also the following:

*Resolved*, That the sum of one hundred and eighty dollars be appropriated for collimating telescopes, and equipping them, at the Observatory; and also that the sum of seventy-five dollars be appropriated for painting the internal surface of the dome, and calking and cementing the doors and windows at the Observatory.

The President presented a communication from certain florists in the neighborhood objecting to the University selling plants and cut flowers, in answer to which the Secretary was directed to reply respectfully that the University never seeks a commercial business and never solicits buyers; but when in the prosecution of its ordinary work, it has products which people are glad to come and purchase, and it can thereby extend its work, it must feel free to do so; and

that the small sale of flowers can not be held to work a hardship to others, when it is remembered that such sales have been made from the beginning, and long before the correspondents engaged in business; and also that the growth of the University has created a demand for flowers many times greater than its own sales.

The matter of making an appropriation to print the prize essay on Banking in Illinois, written by Charles Hunter Garnett, a graduate of the University in 1896, was, on motion of Mr. Morrison, referred to the Committee on Publication, with instructions to examine the essay and report to the board at its next meeting.

Professor Kinley's title was changed to "Professor of Economics."

A telegram was received from Mr. Inglis stating that he was unavoidably detained in Springfield and could not attend this meeting of the Board.

The following resolution was adopted:

*Resolved*, That appropriate certificates shall be issued at the proper time to graduates of the School of Pharmacy who are duly recommended therefor by the faculty of the said School and approved by the vote of the General Faculty of the University.

Upon recommendation of the Council of Administration, the Board, on motion of Mr. Armstrong, approved the following additions and changes in the catalogue:

1. The announcement of a Law School.
2. The announcement of a course, in the College of Literature and Arts, *preparatory to law*. This course is composed of subjects now offered in the departments of economics, history, public law and administration and rhetoric, and is announced as a course likely to constitute one year's work of the three required for the degree of Bachelor of Laws.
3. The readjustment of the courses in physics, chemistry, and electrical engineering, necessitated by the appointment of a new professor of physics a year ago.
4. The addition of a course in philosophy and one in English Literature.
5. The reduction of the number of credits required for graduation in the chemical group, College of Science, from 41 to 40. This will make the requirement uniform in all departments of the University.
6. The arrangement of courses in elementary chemistry and physics conjointly, leading to the degree of B. S., and a change of the name of the "Chemical Group" to that of the "Chemical and Physical Group."
7. The reconstruction and extension of the courses in astronomy in the mathematical group, College of Science.
8. Sundry unimportant changes, not numerous, made necessary by the above changes.

On motion of Mr. McLean it was voted that the standing committees of the Board should be as follows:

*Agriculture*, four members; *Buildings and Grounds*, four members; *Finance*, three members; *Instruction*, four members; *Publication*, three members; *Library*, five members, including the President of the University, the Business Manager, and the Librarian; *Students' Welfare*, four members; *School of Pharmacy*, five members, including the President of the University and the Business Manager.



The Report from the Advisory Board of the Agricultural Experiment Station, and from the Director of the Experiment Station were presented by President Draper and were referred to the Committee on Agriculture.

A communication was received from Mr. H. H. Greene, of Bloomington, tendering his resignation as a member of the Advisory Committee of the School of Pharmacy, on the ground of his having accepted another official position, and of his having retired from the practice of Pharmacy. The resignation was accepted.

The proposition of Ottenheimer & Co. with regard to uniforms for the Battalion was referred to the Secretary and Business Manager.

The request of I. H. Hill for the return of fees was denied.

President Draper said that he had been consulted by the city authorities of Urbana with regard to joining with the city in paving University Avenue along the north of the campus and on the east between University Avenue and White Street. The Board instructed the Secretary to notify the Mayor of the City of Urbana that the Board was in favor of the construction of the pavement, and would ask the Legislature to make an appropriation covering its share of the expense.

The Board appropriated \$275.00 or so much thereof as might be needed, for the purchase of the instruments mentioned below for use of the Department of Mechanical Engineering.

1. A locomotive registering speed counter.
2. A special pyrometer.
3. A carpenter separating calorimeter.
4. Three way cocks and detent motives.

A further request from the department of mechanical engineering for \$150.00 for running expenses of the mechanical engineering laboratory during a spring term, was denied.

President Draper presented the report of the Superintendent of Buildings and Grounds which was referred to the Committee on Buildings and Grounds.

It was voted that the Business Manager, after consulting with Professor Carman, should order, upon a satisfactory bid, physical apparatus and supplies, to be imported, not exceeding in amount \$1,000.00.

Mr. N. W. Graham's bill for expenses, amounting to \$15.32, was ordered paid.

The Secretary stated that Mr. A. D. Barber, of Hamilton, Mr. E. A. Riehl, of Alton, and Mr. H. B. Gurler, of DeKalb, had been recommended by the Illinois State Board of Agriculture, The Illinois State Horticultural Society, and The Illinois State Dairymen's Association, respectively, to represent them on the Advisory Board of the Agricultural Experiment Station. These gentlemen were appointed as recommended.

Messrs. Raymond and Morrison were also appointed members of the Advisory Board.

On motion of Mr. Raymond, \$500.00 was appropriated with which to make an exhibit at the next Illinois State Fair, and the arrangements for the exhibit were put in charge of the President of the University and the Faculty.

On motion of Mr. Smith the Board adjourned to meet at 9 o'clock a. m., Wednesday.

#### SESSION OF WEDNESDAY.

The Board met pursuant to adjournment at 9 o'clock Wednesday morning and there were present the same members as on the afternoon before, excepting Mr. Pearce.

President McKay announced committees as follows:

#### STANDING COMMITTEES.

*Agriculture.*—Raymond, Morrison, McLean, Pearce.

*Buildings and Grounds.*—Bullard, Flower, Armstrong, Raymond.

*Finance.*—Smith, McLean, Morrison.

*Instruction.*—Flower, Inglis, Armstrong, Raymond.

*Publication.*—Morrison, Draper, Pillsbury.

*Library.*—Draper, Inglis, Carriel, Shattuck, Bicknell.

*Students' Welfare.*—Carriel, Flower, Smith.

*Pharmacy.*—McLean, Armstrong, Bullard, Draper, Shattuck.

#### COLLEGE OF PHYSICIANS AND SURGEONS.

Mr. Armstrong offered the following preamble and resolutions which were adopted:

WHEREAS, The College of Physicians and Surgeons, of Chicago, has made a proposition to the University of Illinois, whereby a department of medicine can be established in connection with said university without expense to the State for maintenance, therefore, be it

*Resolved,* That the University of Illinois shall hereby establish a medical department in the City of Chicago, and that the property known as the College of Physicians and Surgeons shall be leased for that purpose upon terms to be mutually agreed to by committees from the two institutions; that a committee consisting of the President of the University, the Business Manager, and three members of the Board of Trustees, to be appointed by the Chairman of the Board, shall be given power to execute a lease upon such terms as they shall agree.

The President appointed on this committee Mr. Armstrong, Mrs. Flower, and Mr. Smith.

On motion of Mr. Bullard the election of a Treasurer was postponed until the next regular meeting.

On motion of Mr. Morrison, the Committee on Finance was instructed to present to the Trustees at that meeting the name of a person suitable to be appointed Treasurer.

The Committee on the School of Pharmacy made the following report:

SCHOOL OF PHARMACY LEASE.

URBANA, ILLINOIS, March 10, 1897.

*To the Board of Trustees of the University of Illinois:*

Gentlemen:—Your Committee on the School of Pharmacy begs leave to report that the lease on the building occupied by the School of Pharmacy expires May 1, 1897. Your Committee suggests that it be authorized to lease the premises now occupied on such terms as may be deemed best for the interests of the School, and to report its action at the next meeting of the Board.

Respectfully submitted,

ALEX. McLEAN,  
A. S. DRAPER,  
S. W. SHATTUCK,

*Committee on School of Pharmacy.*

On motion of Mr. Smith the report of the Committee was approved, and the authority asked for was given.

On motion of Mr. Morrison \$500 was appropriated for the Summer School.

The Secretary presented to the Board applications from two parties for the position of superintendent of buildings and grounds. It was also stated by members of the Board that a large number of similar applications had been received by them. In view of this the Board adopted the following preamble and resolution:

WHEREAS, Numerous applications have been made to the Board for the position of superintendent of buildings and grounds when there is no vacancy in said position, therefore

*Resolved*, That in the opinion of the Board all University positions should be kept on the merit basis. No officer or employé should be removed except for good cause, and whenever an appointment is made, it should be made solely with regard to special fitness.

On motion of Mr. Raymond, Mr. Heath and Professor Talbot were invited to make a statement with regard to the proposed celebration by the Alumni Association at commencement time.

On motion of Mr. Bullard, the following resolution was adopted:

*Resolved*, That the sum of \$500 be appropriated for commencement expenses to be in charge of a committee consisting of Messrs. Raymond and Smith and President Draper and that, if such committee think it well, and is able to purchase permanent table furnishings for the future use of the University out of such appropriation, they be at liberty to make such purchase.

The Executive Committee reported that, January 12, 1897, upon recommendation of the Director of the State Laboratory of Natural History, it had made the salary of Mr. C. C. Adams, entomological assistant in the State Laboratory of Natural History, \$50 a month.

This action of the Executive Committee was confirmed.

The bill of the Garvin Machine Co., of New York, amounting to \$82.46, for freight and repairs on machines loaned to the University at the time of the World's Fair, was ordered paid.

President Draper reported with regard to employing counsel by the Board that the special committee to which the matter was referred considered that, in view of the establishment of a Law School, such an appointment would not be necessary.

The report of the committee was approved and the committee discharged.

The Secretary presented the Treasurer's report, which was referred to the Committee on Finance.

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS

DECEMBER 31, 1896.

1896.		<i>Dr.</i>		
September	30	Balance.....		\$285,713 49
October	2	Jasper county coupons, due October 1, 1896.....	\$750 00	
"	7	U. S. Experiment Station warrant, due October 1, 1896..	3,750 00	
"	10	From S. W. Shattuck, on account of School of Pharmacy	2,000 00	
"	15		1,000 00	
"	31	From S. W. Shattuck, paid warrants on account of farm fund .....	250 00	
"	31	From S. W. Shattuck, paid warrants on account of general fund .....	2,409 84	
November	4	From S. W. Shattuck, on account of School of Pharmacy	2,000 00	
"	12		1,000 00	
"	14	Union school district, Cass county coupons, due November 1, 1896.....	325 00	
"	16	From S. W. Shattuck, on account of general fund .....	2,000 00	
"	30	From S. W. Shattuck, paid warrants on account of general fund .....	1,809 12	
December	2	Remainder of principal on land contract No. 53, Frank Novotny .....	500 00	
"	2	Interest on land contract No. 53 .....	36 66	
"	16	From S. W. Shattuck, on account of School of Pharmacy	2,000 00	
"	24		2,000 00	
"	24	Principal on land contract No. 117, Joseph Cuta.....	180 00	
"	28	Crawford county coupons, due January 1, 1897.....	600 00	
"	28	Gallatin county coupons, due January 1, 1897.....	630 00	
"	29	Remainder of principal on land contract No. 63, R. O. Braaten.....	62 75	
"	29	Interest on land contract No. 63 .....	4 39	
"	29	Principal on land contract No. 80, W. Doering .....	120 00	
"	29	Interest on land contract No. 80 .....	50 40	
"	30	Principal on land contract No. 65, Joseph Cuta.....	100 00	
"	30	Interest on land contract No. 65 .....	28 00	
"	31	Principal on land contract No. 116, Joseph Hollan .....	49 40	
"	31	Interest on land contract No. 116.....	86 30	
"	31	From S. W. Shattuck, paid warrants on account of general fund .....	2,388 52	
"	31	From S. W. Shattuck, paid warrants on account of farm fund .....	510 98	
"	31	From C. W. Spalding, treasurer, interest at 4 per cent on endowment fund for October, November, and December, 1896 .....	366 54	
"	30	From C. W. Spalding, treasurer, interest on all other funds at 2½ per cent for October, November, and December, 1896.....	1,236 18	\$28,244 08
				<u>\$313,957 57</u>
1896.		<i>Cr.</i>		
December	31	By amount paid out of general fund, as per list of warrants herewith.....	\$13,508 16	
"	31	By amount paid out of U. S. Experiment Station fund, as per list of warrants herewith.....	3,821 64	
"	31	By amount paid out of farm fund, as per list of warrants herewith.....	844 25	

*Treasurer's Report—Concluded.*

December	31	By amount paid out of School of Pharmacy fund, as per list of warrants herewith.....	4,075 42	
"	31	By amount paid out of U. S. fund, as per list of warrants herewith.....	13,327 37	
"	31	By amount paid out of the following state appropriations, as per list of warrants herewith—		
		Salaries, etc.....	22,232 62	
		Library building.....	40,861 48	
		Library.....	1,399 58	
		Laboratory of Natural History.....	2,056 41	
		Engineering College.....	2,062 84	
		Astronomical Observatory.....	394 61	
		Fitting and furnishing Engineering Hall.....	318 68	
		Biological Experiment Station.....	357 41	
		Apparatus and material.....	1,324 96	
		Shop practice.....	837 44	
		Chemical Laboratory.....	381 09	
		Laboratory of Vegetable Physiology.....	29 00	
		Fire protection.....	598 59	
		Paving streets and walks.....	63 09	
		Vaccine Laboratory.....	494 09	
		<i>Balances—</i>		
		General fund.....	\$8,130 79	
		Endowment fund.....	37,184 58	
		School of Pharmacy.....	3,851 31	
		United States fund.....	5,220 20	
		U. S. Experiment Station fund.....	1,036 41	
		Farm fund.....	412 21	
		<i>State Appropriations—</i>		
		Salaries, etc.....	59,198 88	
		Library building.....	66,305 47	
		Library.....	1,601 47	
		Laboratory of Natural History.....	5,408 91	
		Cabinets.....	1,648 95	
		Engineering College.....	2,859 82	
		Astronomical Observatory.....	4,132 69	
		Fitting and furnishing Engineering Hall.....	1,152 03	
		Biological Experiment Station.....	1,142 59	
		Apparatus and material.....	1,708 26	
		Shop practice.....	472 12	
		Chemical Laboratory.....	1,121 26	
		Laboratory of Vegetable Physiology.....	59 02	
		Fire protection.....	353 61	
		Vaccine Laboratory.....	1,978 29	
				204,968 84
				\$313,957 57

The Business Manager, Professor S. W. Shattuck, presented his report.

## BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, March 9, 1896.

*James E. Armstrong, Esq., President of the Board of Trustees, University of Illinois.*

SIR:—I have the honor to present to you herewith the following report:

*Paper A* is a statement of the general current appropriations December 3, 1896.

*Paper B* is that for the State appropriations.

*Paper C* is that for the U. S. fund.

*Paper D* is that for the Laboratory of Natural History.

*Paper E* is that for the Agricultural Experiment Station.

*Paper F* is that for the School of Pharmacy.

PAPER A—CURRENT APPROPRIATIONS.

<i>December 31, 1896.</i>	Appropriated.	Expended.	Balance.
Board expenses .....	\$846 88	\$666 40	\$180 48
Salaries for instruction and for President { Current..... U. S. Fund..... State.....}	48,589 80	{ 5,793 67 21,205 59 21,590 54 5,280 50 639 82	}
Salaries for services { Current..... State.....}	6,049 54	501 16	129 22
Buildings and grounds .....	1,084 90	639 82	583 74
Fuel and lights .....	4,955 01	3,011 92	1,943 09
Stationery and printing .....	1,043 42	1,035 23	8 19
Preparatory School .....	2,220 00	2,150 58	69 42
Repair shop .....	650 63	650 63	.....
Mechanical Department .....	831 42	620 81	210 61
Departments .....	543 04	229 44	313 60
Laboratories .....	2,845 35	2,025 12	820 23
Library and apparatus .....	97 64	32 73	64 91
Incidental expenses .....	871 60	803 80	67 80
<i>Sundries.</i>			
Closed out.....	1,019 35	1,019 35	.....
Furniture and fixtures .....	496 48	191 87	304 61
Heating apparatus .....	482 65	86 09	396 56
Water supply .....	250 00	250 00	.....
Minnesota lands.....	100 00	77 28	22 72
Greenhouse .....	100 00	96 58	3 42
Commencement .....	100 00	68 50	31 50
Stone posts .....	160 00	.....	160 00
Tenant farming, etc., in Illinois.....	75 00	.....	75 00
Watchman's register .....	100 00	.....	100 00
South farm.....	25 00	3 65	21 35
Accredited high schools .....	30 00	.....	30 00
Coal experiments.....	120 00	.....	120 00
Court expenses.....	9 90	.....	9 90
Visiting heating plants.....	139 49	139 49	.....
Treasurer's expenses .....	110 45	110 45	.....
President's expenses.....	130 40	130 40	.....
	\$74,077 95	\$68,411 60	\$5,666 35

PAPER B—STATE APPROPRIATIONS.

<i>December 31, 1896.</i>	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc.—</i>				
Closed out.....	\$17,951 81	\$17,951 81	.....	.....
Salaries for instruction.....	84,692 09	84,692 09	.....	.....
Salaries for services.....	2,000 00	639 82	\$1,360 18	\$1,360 18
Heating apparatus.....	1,200 00	951 16	248 84	248 84
Buildings and grounds.....	2,800 00	2,580 33	219 67	219 67
Toilet rooms.....	375 00	294 22	80 78	80 78
Art and design.....	250 00	120 13	129 87	129 87
Physical training.....	1,222 00	878 60	343 40	343 40
School of Music.....	2,250 00	2,120 48	129 52	129 52
Lectures.....	1,000 00	.....	1,000 00	1,000 00
Agriculture.....	3,750 09	3,308 43	441 57	441 57
Preparatory School.....	190 00	84 90	105 10	105 10
Advertising and catalogue.....	2,900 00	2,562 51	337 49	337 49
Oratorical contest.....	100 00	.....	100 00	100 00
College of Literature and Arts, books.....	200 00	156 14	43 86	43 86
Athletic fund.....	500 00	486 86	13 14	13 14
Illini.....	500 00	150 00	350 00	350 00
Illio.....	100 00	.....	100 00	100 00
Accredited schools.....	300 00	137 47	162 53	162 53
Technograph.....	100 00	.....	100 00	100 00
Signal bells.....	100 00	82 92	17 08	17 08
Botany (herbarium, etc.).....	150 00	.....	150 00	150 00
Mechanical laboratory.....	300 00	63 07	236 93	236 93
Chemical laboratory (repairs.).....	9,180 00	7,944 51	1,235 49	1,235 49
Furniture and fixtures.....	400 00	34 94	365 06	365 06

## Paper B—State Appropriations—Concluded.

December 31, 1896.	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc.—Concluded.</i>				
Furnishing Astronomical Observatory.....	300 00	161 13	138 87	138 87
Zoological department.....	95 00	.....	95 00	95 00
Bronze tablet.....	175 00	.....	175 00	175 00
Electric lighting.....	200 00	197 86	2 14	2 14
Physics.....	600 00	.....	600 00	600 00
Unassigned.....	46,119 10	.....	46,119 10	.....
	\$180,000 00	\$125,599 38	\$54,400 62	\$8,281 52
<i>Apparatus and materials—</i>				
Closed out.....	\$1,400 00	\$1,400 00	.....	.....
Applied chemistry.....	100 00	5 20	\$94 80	\$94 80
Chemistry.....	700 00	506 12	193 88	193 88
Psychology.....	300 00	258 66	41 34	41 34
Zoology.....	800 00	608 25	191 75	191 75
Physiology and hygiene.....	800 00	520 60	279 40	279 40
Botany and horticulture.....	680 00	647 89	32 11	32 11
Geology.....	400 00	328 51	71 49	71 49
Mathematics.....	300 00	300 00	.....	.....
Astronomy.....	500 00	41 86	458 14	458 14
Unassigned.....	20 00	.....	20 00	.....
	\$6,000 00	\$4,617 09	\$1,382 91	\$1,362 91
<i>Operating Biological Experiment Station.....</i>	\$3,000 00	\$1,999 21	\$1,000 79	\$1,000 79
<i>Paving streets, etc.....</i>	\$9,300 00	\$9,300 00	.....	.....
<i>Laboratory of Vegetable Physiology.....</i>	\$2,000 00	\$1,940 98	\$59 02	\$59 02
<i>Astronomical Observatory.....</i>	\$15,000 00	\$10,727 98	\$4,272 02	\$4,272 02
<i>Library Hall.....</i>	\$150,000 00	\$83,694 53	\$66,305 47	\$66,305 47
<i>Fire protection.....</i>	\$2,000 00	\$1,646 39	\$353 61	\$353 61
<i>Library.....</i>	\$6,000 00	\$4,897 85	\$1,102 15	\$1,102 15
<i>Shop practice.....</i>	\$3,000 00	\$2,563 34	\$436 66	\$436 66
<i>Chemical Laboratory.....</i>	\$5,000 00	\$3,894 34	\$1,105 66	\$1,105 66
<i>Vaccine Laboratory.....</i>	\$3,000 00	\$1,078 49	\$1,921 51	\$1,921 51
<i>Cabinets—</i>				
Geology.....	\$400 00	\$351 05	\$48 95	\$48 95
General.....	600 00	.....	600 00	600 00
Unassigned.....	1,000 00	.....	1,000 00	.....
	\$2,000 00	\$351 05	\$1,648 95	\$648 95
<i>College of Engineering—</i>				
Machine shop.....	\$17,008 04	\$17,008 04	.....	.....
Mechanical engineering.....	3,104 85	2,900 78	\$204 07	\$204 07
Electrical engineering and physics.....	3,829 85	3,092 23	737 62	737 62
Civil engineering.....	1,852 42	1,535 47	316 95	316 95
Laboratory of Applied Mechanics and Municipal and Sanitary Engineering..	1,852 42	1,212 57	639 85	639 85
Architecture.....	1,752 42	1,308 66	443 76	443 76
College of Engineering.....	600 00	353 97	246 03	246 03
	\$30,000 00	\$27,411 72	\$2,588 28	\$2,588 28
<i>Furnishing and Fitting Engineering Hall—</i>				
Electric wiring.....	\$1,191 77	\$1,191 77	.....	.....
Civil engineering.....	478 43	412 13	\$66 30	\$66 30
Architecture.....	770 98	605 69	164 69	164 69
Municipal and Sanitary Engineering.....	401 30	234 53	166 77	166 77
Mechanical department.....	563 78	324 30	239 48	239 48
Electrical engineering and physics.....	1,193 39	813 24	380 15	380 15
College library, parlor, etc.....	400 95	266 31	134 64	134 64
	\$5,000 00	\$3,847 97	\$1,152 03	\$1,152 03

## PAPER C—UNITED STATES FUND.

<i>December 31, 1896.</i>	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1897.</i>				
Salaries for instruction.....	\$22,000 00	\$21,205 59	\$794 41	\$794 41

## PAPER D—LABORATORY OF NATURAL HISTORY.

<i>December 31, 1896.</i>	Received.	Expended.	Balance.	Assigned.
General balance July 1, 1896.....	\$246 73	.....	\$246 73	\$246 73
Salaries.....	3,650 00	\$1,605 81	2,044 19	2,044 19
Field, office, etc.....	1,500 00	780 69	719 31	719 31
Library.....	1,000 00	277 65	722 35	722 35
Bulletins.....	500 00	241 61	258 39	258 39
Report of Entomologist.....	250 00	39 00	211 00	211 00
Contagious diseases of insects.....	1,500 00	641 52	858 48	858 48
Biological Experiment Station.....	1,500 00	1,497 28	2 72	2 72
	\$10,146 73	\$5,083 56	\$5,063 17	\$5,063 17

## PAPER E—AGRICULTURAL EXPERIMENT STATION.

<i>For the quarter ending December 31, 1896.</i>	Appropriated.	Expended.
Salaries.....	\$3,798 22	\$3,798 22
Labor.....	1,540 20	1,540 20
Publications.....	452 25	452 25
Postage and stationery.....	20 60	20 60
Freight and express.....	51 56	51 56
Chemical supplies.....	57 17	57 17
Seeds, plants, sundries.....	238 26	238 26
Feeding stuffs.....	143 68	143 68
Library.....	123 84	123 84
Tools, implements, and machinery.....	122 69	122 69
Furniture and fixtures.....	131 28	131 28
Scientific apparatus.....	309 49	309 49
Live stock.....	121 75	121 75
Traveling expenses.....	115 69	115 69
Contingent expenses.....	48 78	48 78
Buildings and repairs.....	224 54	224 54
	\$7,500 00	\$7,500 00



Farm fund.....	\$1,530 00	\$1,495 22	\$34
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## PAPER F—SCHOOL OF PHARMACY.

<i>For the quarter ending December 31, 1896.</i>	Appropriated.	Expended.	Balance.
Salaries for instruction .....	\$2,250 00	\$1,928 49	\$321 51
Salaries for services.....	750 00	750 00	.....
Buildings and grounds.....	2,000 00	1,954 01	45 99
Fuel and lights .....	403 54	370 16	33 38
Stationery and printing.....	100 00	96 58	3 42
Furniture and fixtures .....	100 00	38 16	61 84
Laboratories .....	1,000 00	391 3-	608 65
Incidentals.....	220 23	220 23	.....
Sundries.....	208 52	150 54	57 98
Advertising.....	1,096 46	1,096 46	.....
Museum .....	25 00	1 25	23 75
	\$8,153 75	\$6,997 23	\$1,156 52

*Paper G* is an estimate of receipts and expenses for the six months ending June 30, 1897.

*Paper H* is a list of appropriations the Board is requested to make for the three months ending June 30, 1897.

*Paper I* is a statement of receipts for the three months ending December 31, 1896.

*Paper K* is a list of general University vouchers presented for audit, being 501 to 1,200, inclusive.

*Paper L* is a list of Laboratory of Natural History vouchers presented for audit, being 97 to 161, inclusive.

*Paper M* is a list of Agricultural Experiment Station vouchers presented for audit, being 78 to 200, inclusive.

*Paper N* is a list of School of Pharmacy vouchers presented for audit, being 39 to 102, inclusive.

*Paper O* is a bill of court expenses presented by Cunningham & Boggs.

*Paper P* is a statement and request in regard to the sale and purchase of several machines for the mechanical department.

*Paper Q* is a showing of the condition of the past due payments on land contracts January 20, 1897.

All holders of these contracts were informed that all past due interest should be paid or secured, if the contracts were to continue in force. About \$1,000.00 in interest has been collected by the Treasurer since the notification.

What further action shall be taken in the matter?

Respectfully submitted,

S. W. SHATTUCK,

*Business Manager.*

*Papers K, L, M, and N*, with vouchers, were referred to the Committee on Finance.

The matter of the land contracts was referred to the Finance Committee and Business Manager, with power to act.

On motion of Mr. Bullard, the appropriations asked for by the Business Manager were made, as follows:

## APPROPRIATIONS.

Board expenses.....	\$500 00	
Salaries for instruction and President.....	\$27,000 00	
Salaries for services.....	3,300 00	
Buildings and grounds.....	1,000 00	
Fuel and lights.....	1,000 00	
Stationery, printing and postage.....	600 00	
Catalogue and advertising.....	2,000 00	
Repair shop.....	600 00	
Mechanical department.....	800 00	
Departments.....	300 00	
Laboratories.....	300 00	
Library and apparatus.....	50 00	
Incidentals.....	600 00	
Water supply.....	125 00	
Heating apparatus.....	400 00	
Accredited schools.....	200 00	
Minnesota and Nebraska lands.....	100 00	
		\$38,875 00
School of Pharmacy—		
Salaries for services.....	\$375 00	
Buildings, rents, etc.....	1,000 00	
Stationery, printing and postage.....	100 00	
Fuel and lights.....	100 00	
Laboratories.....	100 00	
Incidentals.....	200 00	
		\$1,875 00
Agricultural Experiment Station—		
General fund.....	\$3,750 00	
Farm fund.....	900 00	
		\$4,650 00

On motion of Mr. Morrison, Cunningham & Boggs's bill for court fees advanced in the Bruner case, amounting to \$12.50, was ordered paid.

Upon motion of Mr. Morrison, the Dean of the College of Agriculture was directed to have all animals belonging to the University and eligible to registry in the stock books duly registered, and also to place placards over their stalls indicating their names and breeding.

Mr. Raymond, from the Committee on Agriculture, returned the report of the Director of the Experiment Station with the recommendation that it be published and that the Station work be authorized and appropriations of Station funds be made as therein recommended.

The report of the Committee was concurred in.

AGRICULTURAL EXPERIMENT STATION,

URBANA, ILLINOIS, March 4, 1897.

*Andrew S. Draper, LL. D., President University of Illinois,*

DEAR SIR:—It seems well that at least once a year, and preferably at this time, the work of each department of the Station be carefully reviewed, and that general plans for the ensuing year be somewhat elaborated, to the end that the work of the Station may proceed in an orderly manner and its energies be directed along definite lines. Accordingly the head of each department has filed with the Director a detailed report of the condition of experiments assigned him, either in whole or in part, accompanied by plans for

future work. The salient points of these reports together with recommendations of the Director and certain other matters of interest are herewith transmitted as information and to serve as a basis for action by the Trustees.

Two years ago the institution owned but one registered animal, and was breeding her and her mates to unregistered bulls belonging to the neighbors. Happily the inconsistency of this practice at an institution offering instruction in the principles and practice of successful breeding was appreciated and we now own three registered bulls of the three most prominent breeds and from the choicest herds of the United States, besides three females of the Shorthorn breed, three of the Jersey, and nine of the Holstein-Friesian. We sold one Holstein-Friesian bull calf for \$100.00, and have on hand one other Holstein, and one Shorthorn. This is a total of twenty animals, either registered or capable of registry of which the Station has purchased three and the University eleven. Of the little flock of ewes three are picked specimens from the flock of George Allen, one of the most successful breeders of Shropshires in America. These additions to the live stock not only do the institution credit, but they mark a broader policy regarding agriculture here.

The first year of the new organization with a Director will have nearly expired before the time of the next meeting. The Station staff, except for unavoidable interruptions, sustains its regular weekly meetings as heretofore and to the informal discussions of these meetings is due much of the unity and efficiency of the work. As a result the work of this Station is not that of independence and often inharmonious interests, but rather that of an organized staff whose energies are expended along prescribed and closely related lines.

#### WORK OF THE YEAR.

*Animal Husbandry.*—Records are kept of the amount of milk and the per cent of fat for each cow in the herd. Accurate accounts were kept of the food and water consumed by each of two cows fresh on the same day. In this way a mass of material is on hand awaiting time for a study of the variations between cows in the matter of return for feed consumed. More data and more knowledge on this subject are greatly needed. The physiological requirements of the animal body have been largely overlooked and chemistry has stood for all that is scientific in the feeding problem. A preliminary excursion into this pioneer field of experimentation was made by feeding three calves at different times on rations destitute of coarse food. The results, together with data from a similar experiment by the author elsewhere, are reported in bulletin No. 46, which is just issued. These are the first of their kind, and show some unexpected facts as to the principles of nutrition, chief among which is this, that the food should be in every way suited to the habits of the species and the idiosyncrasy of the individual.

Two or three of the best native cows have been bred successively to the different bulls, hoping to raise from the same cows heifer calves that are grades with different breeds. It may lead to valuable facts and may lead to nothing, but we already have on hand a few grade heifers of this breeding. All grade males have been disposed of as property undesirable to retain upon the premises.

The rape plant is the cheapest food for sheep, but the southern limit of its successful growth has never been determined. Accordingly it was thoroughly tested on these grounds last year, where it made a truly wonderful growth. It can be recommended without hesitation to every flock master in the northern and central portions of the State. Whether it will thrive south of the black soils is not yet determined, but our experience of last year was not at all flattering.

There were growing on the grounds a great variety of forage plants in small amounts and it was determined to try them for ensilage as compared with corn, depending upon the appearance of the product and the verdict of the cattle to decide upon their merits. Neither broom-corn, sorghum, nor any of the Kafir corns is comparable with Indian corn, but teosinte appears

promising. Rape becomes, in the silo, a wet and compact mass that is not good silage, but an excellent protector to what is below. It is the best known material to exclude air, and would make excellent covering for the silo.

A quantity of oats was cut for hay, partly for the benefit of seeding, and partly to provide coarse feed for horses and cattle. It has proved more acceptable to both than the best of hay, and I have never seen a feed upon which horses thrived so well. It is so promising that I have recommended some careful experiments in the matter of oat hay for the coming year. If oat hay can be successfully cured in the average season its value for coarse feed is well nigh unprecedented. Large use has been made of cut corn stover and digestion experiments are in progress with four steers to determine accurately the digestibility of both the corn plant as it grows and the stalk after the ear has been removed. Strangely enough neither has ever been carefully determined. This investigation when worked out will be reported by the chemist, but we are expecting some valuable facts in addition to present knowledge concerning variation among animals in their process of digestion.

*Dairying.*—The results of experience with pasteurizing milk were written up by Mr. Powers, but have not yet been published. Further knowledge along the lines treated seems desirable. Mr. Fraser has made some preliminary studies as to the sources of contamination that are so surprising as to suggest further investigation. He has exposed more than 100 Petri plates in different places about the barn and dairy and made some sixteen bromide prints of resulting cultures. More bacteria are obtained on dishes exposed a foot below the ceiling than on those exposed at the floor level, and more from a proximity to the cattle than from the dust of the barn or of the fodder, which seems to indicate that the animals themselves are the chief source of infection. Twice as many bacteria fell on the plates exposed immediately after brushing the cows when the air appeared clear, as fell on plates exposed in the dusty air of the barn immediately after sweeping.

Mr. Fraser, under the direction of Dr. Burrill, is making experiments on the best nutrient media for culture of the bacteria that invade milk. This is all valuable work, and is the more important because almost entirely new. It ought to be continued carefully.

Some tests have been made in speed of separator and tester as affecting their efficiency, as well as temperature of milk for separation and for setting in the Cooley creamer. Substantial improvements have been made in the machinery of the dairy building and its arrangement, all of which have contributed to greater efficiency in labor and a better and more uniform product of milk.

*Veterinary Science*—Dr. Burrill and Dr. McIntosh made a number of examinations of supposed cases of hog cholera last fall without definite results, further than that the most of the animals examined proved to be troubled with swine plague rather than hog cholera. The whole subject is most vexatious, promising little relief except through the avenue of the bacteriological laboratory.

*Agricultural Physics*—Another yield of corn has been taken from the 160 tenth-acre plats, making the second series of yields. These are exceedingly valuable as affording a basis for comparing the natural productivity of the land in advance of experiments in which results will be judged by comparative yields. The variation between tenth-acre areas is from nothing to over 10 per cent in a good year, and much more in a bad year. To ascertain the personal equation of this land is the first step of a careful experimenter and a good start is made here. It may be worth stating that some of this land yielded over 96 bushels of shelled corn per acre and that the average of the field was 88 bushels.

During the winter the remainder of the fields devoted to experimental work have been accurately surveyed and definite boundaries established, so that cropping and fertilizing may be upon exact and well known areas, to the end that the history may be recorded of all the land under experiment or likely to come under experiment in future years. Language is not strong

enough to condemn sufficiently the practice of staking out plats each spring without reference to the previous history of the land, and this all but universal practice has been responsible for many misleading statistics.

A new method of determining comparative yields of varieties has been tested, found successful, and fully reported in bulletin No. 46. By this means the limit of error has been greatly reduced. The plan, though simple, has never been used elsewhere, and whatever is valuable about it is original with this Station.

Attempts to grow crimson clover have again been made with the usual degree of failure. The so-called northern grown seed that was warranted hardy failed as badly as any, and the experience almost warrants the conclusion that the crop is too precarious in this region to be profitable.

Teosinte promises well as a forage crop. The yield is immense, and as it never seeds in the United States, it affords a fine mass of leafy forage very acceptable to both cattle and horses, especially the latter.

Seed of Kafir corn was obtained from Kansas, and a yield of 45 bushels was secured. The stalk is woody, and makes but indifferent feed either green, cured, or as silage. Clearly it is the crop for the arid west, but it is too expensive of cultivation where weeds abound, and the yield is too light to warrant its use in the place of Indian corn.

A number of unusual crops were grown in small amounts to note their habits of growth and to enable more intelligent answers to be made to inquiries concerning the "wonders" advertised, with a shocking disregard of truth, in the catalogues of certain seed firms. Of this class is *saccaline*, which appears to be as worthless as any other smart-weed, and is but a poor second to its predecessor, prickly comfrey. Another is *spurry*, which is a dangerous weed; and another is the *flat-pea*, which animals, with a charming unanimity, refuse to eat. Answers to inquiries concerning this class of crops call for delicate discernment in the attempt to convey to the querist a sense of their utter worthlessness, particularly when backed by flaming advertisements and numerous "testimonials." The task is not rendered easier when we remember that most of them have been seized upon as curiosities and described in the Station bulletins of certain states, thus receiving a kind of endorsement of their value.

*Botany*—The statements regarding the work of the botanical department are drawn chiefly from the report of Dr. Burrill, botanist of the Station.

The regular investigations that have been made during the year have been prosecuted almost solely by Mr. George P. Clinton. The work has been principally devoted to the fungous diseases of plants, especially the so-called smuts. Broom-corn smut has been studied for two years. Very little had been previously done upon this disease anywhere, so that most of the knowledge obtained during these two years is new to science. The work for the year, of which this is a report, has been devoted to ascertaining the life history of the parasite by studies in the field and in the laboratory, to the determination of the amount of injury by it, and to methods of preventing its ravages. These studies have been successful and a bulletin of some forty pages is now in press giving in detail the outcome of the investigations. From this it will be seen that the disease is destructive a one, often diminishing the value of the crop from 2 to 50 per cent. As Illinois produces more broom-corn than any other state or country, it is peculiarly appropriate that the plant should have the attention of our Station. Feasible methods of preventing almost entirely this disease by the use of hot water have been ascertained.

Investigations have been continued on the smut of Indian corn, on the stinking smut of wheat, and on the loose smut of oats. Material is accumulating for a general bulletin upon the subject which may probably be issued after another season's work.

Other studies have been made upon weeds, especially those attracting most attention in Illinois. Much remains to be done in this line. There is comparatively little knowledge of the life histories of these noxious plants, and of

the real amount and kind of harm they do in the gardens and fields. The best methods of eradication have had too little attention from the standpoint of science.

Collections for the Station herbarium have been made of over 200 varieties of cultivated plants, over 100 numbers of the parasitic fungi, mostly of economic importance, and a considerable addition has been made to the preserved collection of weeds. Three hundred and thirty specimens of economic fungi have been selected from former collections and prepared for final determination and mounting and some 250 other specimens, chiefly weeds, have been mounted for the herbarium. To complete this laboratory work with the material on hand a large amount of work will still be required.

*Chemistry*—Owing to the fire in August the work of the chemical department for the year is practically within the current quarter. Samples of soils from the Stations at Odin and Edgewood were again taken to replace those lost by fire.

The principal work in hand has been a study of the chemical composition of corn, including

- (1) The composition of different varieties.
- (2) Variation in the composition of a single variety.
  - a. Of different samples grown in the same locality.
  - b. Of samples grown in different localities.
- (3) Variation in the composition of corn grown on different parts of the ear. This work is not completed. Partial analyses have been made of seventy-three different samples.

*Entomology*.—The consulting entomologist, Professor Forbes, has furnished copy for two valuable bulletins during the year, viz., No. 44, "Insect Injuries to the Seed and Root of Indian Corn," and No. 48, "The San José Scale." As State Entomologist, he has been active in attempting to locate, with the hope of exterminating it, the San José scale wherever it has gained a foothold within our borders, and the Station coöperates with him. The invasion was found to be more serious and the points of infection more numerous than at first supposed, and this bulletin, No. 48, now in press, is issued to inform orchardists of the presence and the nature of this hitherto unsuspected enemy.

*Publications*.—Five bulletins have been issued during the current year or are now in press, viz., Nos. 44 and 48 as above; No. 45, "Varieties of Apples;" No. 46, "Experiments with Corn," "Attempts to Grow Crimson Clover," "On the Improvement of Retentive Clays," etc., "On the Importance of the Physiological Requirements of the Animal Body," etc.; No. 47, "Broom corn Smut."

Publications from this Station have not been so numerous or voluminous as from certain of the neighboring states, many of them publishing at state expense, or from a special fund, thus making extensive publications easy. The publication of a bulletin of thirty-two pages and its distribution to 16,000 people is no small task, and represents an outlay of about \$300.00. With the funds in sight it is impossible to issue four such bulletins every year.

*Correspondence*.—As might be supposed the correspondence of the Station is heavy and likely to increase greatly. We have held ourselves ready to give such information as might be imparted within the limits of an ordinary letter. Correspondents often ask for more, and sometimes claim the right of long dissertations on cultivations of soils, the action of fertilizers, and other matters equally complicated.

The demand for free chemical analysis of soil, fertilizers, butter, water, etc., is frequently pressing, but people usually see our reasonableness when it is pointed out that we can not undertake work of purely private interest. Occasionally, however, the most courteous explanation fails to satisfy.

## WORK ESPECIALLY RECOMMENDED FOR THE ENSUING YEAR.

*Animal Husbandry.*—The productive energy of the animal body whether measured in labor, meat, or milk varies greatly as between individuals, both absolutely and in proportion to food consumed. Not only that, the same individual is a more economical consumer of food at certain periods than at others, and these variations with fairly good animals are several times as great as a reasonable profit. I recommend a further study of variations in milk yield as related to food, to the individual, and to its surroundings, and that for a time this work be considered the principal matter of experimentation along the line of live stock.

The rape plant for sheep feed should be further tested here that its use may be encouraged, if further tests show it to be as valuable as experience elsewhere and preliminary work here seem to indicate.

*Dairying.*—(1) A study of the variations in milk, in connection with experiments in animal husbandry, to ascertain, if possible, how much is due to feed, how much to individual and how much to other circumstances.

(2) A study of the sources of contamination of milk to learn if the exclusion of unfriendly bacteria is feasible.

(3) An attempt to learn if aeration of milk is necessary to good flavor or to keeping quality.

*Agricultural Physics.*—The source of nitrogen for agricultural crops lies at the foundation of all rotations and of the use of leguminous plants in the economy of the farm. It needs further and persistent study. After a generation of work the problem is only recently taking on new and unexpected features.

The two great leguminous crops for Illinois are red clover, for the northern sections, and cow peas for the southern. Neither has been carefully studied. Red clover is probably capable of all the variations of wheat or oats, yet we have but one variety and do not quite know whether it is necessarily a biennial or not. I most heartily approve making these two crops a matter of special study; that their life histories and variations be studied, together with the best methods of seeding and the nature and limits of "sickness" supposed to follow always the too frequent planting of the same leguminous crop. All the experiments herein mentioned are along authorized lines of work, except this, which is in fact a study of the sources of nitrogen of agricultural crops, and I recommend its addition to the list.

Subsoiling should be carefully studied. The matter is agitating the public mind, and the nature of the practice is such as to affect the land for good or ill for a considerable time. We do not possess the data for intelligently answering whether subsoiling these prairie soils is advisable, and careful experiments on permanent plats both on high and low ground and on a scale large enough to afford an answer to the question are recommended. Some work in subsoiling has been commenced in southern Illinois.

For central Illinois for many years the greatest practical question will be that of depth, frequency, and nature of cultivation, and it is proposed to begin carefully planned experiments along this line on some of the permanent plats. Such work is not so simple of execution as might seem, and valuable results can be had by painstaking care only.

The corn experiments are well started and should be continued. A mass of data is already at hand, but time only will enable the workers to sort it and discover principles. Barrenness is becoming a prominent feature of this study, as well as acclimation and permanence of variety.

Experience would seem to make it advisable to do more with teosinte the coming season, and to endeavor to learn if it is worthy to come into the list of crops for Illinois.

The general interest aroused in the culture of the sugar beet would seem to make it advisable to expend a portion of the energies of the Station along the line of its cultivation. There was a time when public opinion almost compelled the Station to work in channels in which the popular mind happened to be running. It is less necessary to do this than formerly and still it seems

wise to reflect to some extent the public pulse, though it is too fickle to serve as a basis on which to ground policies. Two years ago it was crimson clover and irrigation, and every bad season or time of depression may be relied upon to develop some new phase of agricultural industry. But the importance of the sugar beet question and the demands made by many of our people upon the Station for information on the subject lead me to say that it would be desirable to give the matter early attention.

The only obstacle to the prosecution of this work is the lack of funds, and I do not see how they can be provided without discontinuing some of the established work of the Station. However, something can be done within the limits of our funds, and it seems advisable to do what we can.

*Botany.*—In accordance with the recommendations of Dr. Burrill, it seems that the botanical work of the Station may for the coming year be chiefly directed along the following lines:

1. Fungous diseases of plants.
2. Bacterial diseases of plants.
3. Special histology and physiology of corn.
4. Fertilization of plants through pollen.
5. Weeds. (This is to include determination, germination, etc., of weed seeds).

There is always an accumulation of information outside of the definite lines of study as planned and some of this extra knowledge may from time to time be gathered up and put into available form for use otherwise. Some groups of fungi can soon be worked up in this way with comparatively little extra labor, and freedom in this particular is desired.

*Horticulture.*—The experiments in charge of this department were carefully gone over at a recent meeting and no further changes are recommended at this time aside from the policy of extending the plantings of varieties of small fruits likely to be successful, and that of even more careful investigations into the results of spraying.

*Chemistry.*—The exhaustive chemical examination of Indian corn and its digestibility, together with chemical work done for other departments, and the analysis of fertilizers for the State Board of Agriculture, will occupy fully the time of this department. The value of analytical work depends solely on its absolute accuracy. Offenses against this virtue have been all too common and we are fortunate in being able to publish work of this kind with limits of error far within the official standard. The loss of the laboratory by fire and the destruction of most of the apparatus has greatly hampered the work of the chemist. So far as the apparatus has been restored the quality is of the best. Mr. Hopkins asks to be allowed to order apparatus to the amount of \$450.00. Because most of these goods are imported, such orders must be in advance of appropriations. All this apparatus and more is needed, but I do not see how funds will warrant the placing of orders for more than \$300.00 within the next six months, and recommend that the purchase of chemical apparatus to that amount, mainly importations, be allowed, but that bills for no part of the same be incurred for the present quarter.

*Southern Illinois.*—I recommend the continuance unchanged of the plans in operation at Edgewood during the last year. The feasibility of drainage of these clay lands was demonstrated here last fall and its effect was shown by an increase of over twenty per cent in yield of corn. Whether this will continue must be determined.

The Odin sub-station was established primarily to test sub-irrigation on those lands. The nature of last season rendered this sort of work impractical and it may be a number of years before conditions will be right for such a test.

At Odin we have command of a good sized piece of land, and I recommend for the coming year the trial on a comparatively large scale of a few of the more important questions connected with that of successful agricultural practice there, viz., culture of cow peas, both as a crop and for green manure;



use of rye as a winter protection to land and as green manure; subsoiling both spring and fall; and trials of different methods of seeding to grass, and attempts to tame and cultivate some of the wild prairie grasses.

Estimates of expenses for the ensuing quarter on the basis of recommendations herein made are:—

## ESTIMATES FOR QUARTER ENDING JUNE 30, 1897.

<i>General Fund.</i>		
Salaries.....	\$1,940 00	
Labor.....	570 00	
Publications.....	315 00	
Postage and stationery.....	20 00	
Freight and express.....	25 00	
Heat, light, and water.....	60 00	
Chemical supplies.....	30 00	
Tools, implements, and machinery.....	150 00	
Seeds, plants, and sundry supplies.....	125 00	
Feeding stuffs.....	170 00	
Library.....	35 00	
Live stock.....	160 00	
Scientific apparatus.....	75 00	
Traveling expenses.....	60 00	
Contingent.....	15 00	\$3,750 00
<i>Farm Fund.</i>		
Labor.....	\$700 00	
Seeds, plants, and sundry supplies.....	200 00	\$900 00
		4,650 00

Respectfully submitted,

E. DAVENPORT,

*Director.*

Mr. Bullard, from the Committee on Buildings and Grounds, returned the report of the Superintendent of Buildings and Grounds with the recommendation that it be filed, and the recommendation was concurred in.

On motion of Mr. Bullard, the President and Business Manager were authorized to employ a day policeman at not to exceed \$40.00 a month, and an appropriation was made to meet the salary.

Mr. W. L. Pillsbury, as Secretary, filed the reports concerning the endowment securities maturing during the six months ending December 31, 1897, and the interest thereon for the quarter ending December 31, 1896; and as Registrar, statements of fees due from University students, Preparatory School students, and students of the School of Pharmacy for the quarter ending December 31, 1897.

The Finance Committee filed the following report:

UNIVERSITY OF ILLINOIS, March 10, 1897.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your Finance Committee reports that it has examined University vouchers 1,426 to 2,350, inclusive, series 1895–1896. Also vouchers of series 1896–1897:—

General, 1 to 1,200.

Vouchers Laboratory of Natural History, 1 to 161.

Vouchers Agricultural Experiment Station, 1 to 200.

Vouchers School of Pharmacy, 1 to 102.

We find them in due form and properly receipted, with the exception of No. 2,269 for \$50.00. The warrant for this voucher was not used. We recommend that this warrant be cancelled.

The report of Charles W. Spalding, Treasurer, for the quarter ending December 31, 1896, has been examined and found correct.

Balance September 30, 1896.....	\$285,713 49
Receipts for the quarter.....	28,244 08
	<hr/>
	\$313,957 57
	<hr/>
Warrants paid .....	108,988 73
Balance .....	204,968 84
	<hr/>
	\$313,957 57

Of this balance, \$37,184.58 belongs to the endowment fund.

Respectfully submitted,

THOMAS J. SMITH,  
ALEX. McLEAN,  
N. B. MORRISON,

*Committee.*

On motion of Mr. Armstrong the Board adjourned to meet at the Palmer House, Chicago, at 10 o'clock a. m., Thursday, April 22, 1897, in order to attend the thirty-seventh commencement of the School of Pharmacy.

W. L. PILLSBURY,

*Secretary.*

F. M. MCKAY,

*President.*

## MEETING OF APRIL 13, 1897.

The following call for a special meeting of the Board of Trustees of the University of Illinois was issued April 8, 1897:

“Upon the call of the President, Mr. F. M. McKay, there will be a special meeting of the Board of Trustees of the University of Illinois, at 10 o'clock a. m., Tuesday, April 13, 1897, at the Sherman House, Chicago, to consider the treasurership, and to conduct such other business as may be duly presented.”

There were present at the meeting Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Pearce, Raymond, and Smith and Mrs. Flower and Mrs. Carriel; absent, Governor Tanner and Mr. Inglis.

## ELECTION OF TREASURER.

Mr. Bullard offered the following resolution and moved its adoption:

*Resolved*, That the motion that I made, which was passed by the Board at the last March meeting (see page 74), to postpone the election of a Treasurer till the next regular meeting be now reconsidered.

After considerable discussion of this motion Mr. Smith made the point of order that a motion to reconsider action of a previous meeting which stood adjourned to a subsequent date was not in order at this intervening special meeting. Upon the President's ruling against the point of order the roll was called and the motion to reconsider prevailed by the following vote: Ayes—Armstrong, Bullard, McKay, Morrison, Pearce, and Raymond and Mrs. Carriel and Mrs. Flower; noes—McLean and Smith.

The motion reconsidered was then voted down.

Also Mr. Morrison's motion by which the Committee on Finance was instructed to present to the Trustees at the next regular meeting the name of a person suitable to be appointed Treasurer (see page 74) was reconsidered and voted down.

Mrs. Flower nominated Mr. Elbridge G. Keith, of Chicago, to be Treasurer of the University for the unexpired term ending the second Tuesday of March, 1899, or until his successor shall be appointed and qualified.

Upon the nomination the ayes were—Armstrong, Bullard, McKay, McLean, Morrison, Pearce, Raymond, and Smith and Mrs. Flower and Mrs. Carriel; the noes—none.

Mr. McLean moved that the Executive Committee inform Mr. Keith of his election, and ask him to give a bond in the penal sum of \$750,000 and present the same to the Board for approval. While this motion was pending Mr. Armstrong moved that the Board adjourn until 2 o'clock p. m. The motion did not prevail. Mr. McLean's motion was then carried.

The Board adjourned to meet at 2:30 o'clock p. m.

#### AFTERNOON SESSION.

When the Board met pursuant to adjournment the same members were present as in the morning.

#### BUSINESS MANAGER'S REPORT.

The Business Manager presented the following reports which were referred to the Finance Committee:

S. W. SHATTUCK, BUSINESS MANAGER IN ACCOUNT WITH C. W. SPALDING, TREASURER.

		<i>Dr.</i>		
1897.				
January	1	Balance.....	\$2,404 93	
"	4	Collections, School of Pharmacy.....	1,126 45	
February	3		1,456 00	
"	25	Collections, University fees.....	1,849 48	
March	2	Collections, School of Pharmacy.....	589 00	
"	31		294 00	
"	31	Balance of collections for January, February and March.	7,486 23	\$15,206 09
		<i>Cr.</i>		
January	8	Check, Globe Savings Bank.....	\$1,000 00	
February	13		1,000 00	
"	13	Chicago draft, First National Bank.....	2,000 00	
"	25	Cashed warrants.....	2,034 55	
"	25	" Agricultural Experiment Station.....	365 07	
"	25	Check, Globe Savings Bank.....	582 45	
March	6	Cashed warrants.....	1,021 00	
"	6	" Agricultural Experiment Station.....	286 05	
"	6	Chicago draft, First National Bank.....	2,000 00	\$10,289 12
"	31	Balance.....		4,916 97
				\$15,206 09

## FINANCIAL STATEMENT, MARCH 31, 1897.

		RECEIPTS.	
1896.	December 31	Balance.....	\$155,269 61
1897.	March 31	Treasurer's receipts.....	\$6,287 51
		Business Manager's receipts.....	12,801 16
			19,088 67
			\$174,358 28
		EXPENDITURES.	
1897.	March 31	Warrants, three months—	
		University general.....	\$70,499 06
		Laboratory of Natural History.....	2,081 41
		Agricultural Experiment Station.....	3,739 45
		School of Pharmacy.....	5,674 72
			\$81,994 64
March	31	Balance—	
		Current.....	\$6,851 96
		State appropriations.....	80,587 16
		Laboratory of Natural History.....	2,981 76
		Agricultural Experiment Station.....	1,149 26
		School of Pharmacy.....	793 50
			\$92,363 64
			174,358 28

S. W. SHATTUCK,  
*Business Manager.*

The Board then adjourned to meet at 1:30 o'clock p. m., Wednesday.

## SESSION OF WEDNESDAY.

When the Board met pursuant to adjournment the same members were present as on the day before.

The following report from the Finance Committee was received and approved on motion of Mr. Armstrong:

CHICAGO, April 14, 1897.

*To the Board of Trustees of the University of Illinois.*

Your Finance Committee reports as follows in relation to the bond of Elbridge G. Keith, the Treasurer elect:

The Committee had the bond, which is submitted herewith, made out in legal form by Mr. John P. Wilson, attorney of the Board, and presented it to the said Elbridge G. Keith, who duly signed said bond in the penal sum of \$750,000, as principal, with William J. Watson, Sidney A. Kent, Arthur Dixon, and William A. Fuller as sureties.

Your Committee believes said bond to be ample in form and security, and recommends that the same be approved and filed with the Secretary, by him to be recorded.

Respectfully submitted,

T. J. SMITH,  
ALEX McLEAN,  
N. B. MORRISON,  
*Finance Committee.*

On motion of Mr. Smith the Secretary was instructed to provide himself with a suitable book in which to record bonds and other documents of like importance.

Mr. Armstrong offered the following resolution which was adopted:

*Resolved*, That Mr. Smith be instructed to accompany our Treasurer and attorney to make a formal demand upon Mr. Chas. W. Spalding for all moneys, securities, books, records, and all other property belonging to the University of Illinois which he may have or should have in his possession.

Mr. Bullard offered the following resolution which was adopted:

*Resolved*, That the firm of Wilson, Moore & McIlvaine, of Chicago, be employed as attorneys of this Board in all legal matters in connection with the settlement of the account with the former Treasurer of the Board, Chas. W. Spalding.

The following resolution was adopted:

*Resolved*, That the Treasurer of the Board of Trustees of the University of Illinois is hereby authorized to receive and receipt for all moneys, and to indorse all orders, drafts, and checks due and payable to the said Board of Trustees, or to the said University of Illinois, and especially all drafts drawn by the Treasurer of the United States, payable to said board of Trustees, or to said University of Illinois, on account of the Agricultural Experiment Station of the said University.

On motion of Mr. Smith, Messrs. McKay and Pearce and Mrs. Flower were appointed a Committee to prepare a financial statement which would include a statement of the condition of the Endowment Fund and present the same to the next meeting of the Board.

#### EVENING SESSION.

At this session of the Board Mr. Moore was present and stated at length what steps his firm had taken to protect the interests of the University.

#### LAW OFFICES

WILSON, MOORE & McILVAINE.

CHICAGO, April 29, 1897.

*W. L. Pillsbury, Secretary University of Illinois, Urbana, Ill.*

DEAR SIR: The following is a statement of the report I made to the Trustees of the University at their meeting on April 14, 1897:

On that day we obtained from Mr. Spalding a mortgage of his interest in the property in Ford's Subdivision, in the City of Chicago, getting the description from his deed which had been filed a day or two previous, conveying the same property to Mr. Ford. Mr. Spalding and Mr. Oliver, his attorney, stated to us that at the time of the conveyance to Ford there was a declaration of trust made by Mr. Ford, which stated that that deed was made as indemnity for himself and Allison W. Harlan, as sureties on Spalding's bond. Spalding therefore retained an interest in the property notwithstanding that deed, subject to the claims of Ford and Harlan in case they should be obliged to pay as sureties on that bond.

We obtained also a mortgage from Mr. Spalding of his farm in Hillsboro County, New Hampshire, called "Nanticook," said to consist of one hundred and twenty acres. We took his description for this, and had no other means of knowing what the facts were. The mortgage covered also, in terms, the personal property, stock, etc., on the farm, but probably the conveyance of the personal property would not be good as against subsequent purchasers, or creditors, being contained in a conveyance of real estate, which the law there requires to be recorded differently. It would be practically impossible for you to handle that kind of assets any way, the property being said to be chiefly live stock.

We took also a mortgage on land in Idaho. We could get no better description than "all the lands owned by Mr. Spalding in the State of Idaho." From this he excepted a body of land lying adjacent to Idaho City, stating that he had conveyed that away. We learned from other sources that it was conveyed to Miss Irvin, and we observe now that she testified yesterday before the Grand Jury that a body of land in Idaho had been conveyed to her, comprising a considerable tract. The land in Idaho was said to lie in three counties, which are named in the mortgage. We have caused the mortgage to be recorded in one of these counties, and will have to record it in the others as soon as the return of it from the first place will permit. The New Hampshire mortgage has also been recorded, and also the Illinois mortgage.

In addition to the foregoing Mr. Spalding assigned to the University property described as follows:

"Sixteen bonds, Town of Buckley (Washington), each \$500.00.

Seventeen bonds, Marshalltown Light, Power and Railway Co., each \$1,000.00.

Fifty bonds, Pocatello Power and Irrigation Co., each \$1,000.00.

Fifty-five Idaho Canal Co. bonds (new issue), numbered 79, 80, 95 to 100, both inclusive, 115 to 124, inclusive, and 237 to 248, inclusive, and 250 to 274, both inclusive, each \$1,000.00.

Two notes made by J. W. Lanehart, payable on demand, one for \$5,000.00 and one for \$6,500.00 (guaranteed by John P. Altgeld).

Seven notes of N. W. and G. W. Graham, being for \$1,000.00, \$500.00, \$1,500.00, \$2,000.00, \$2,000.00, \$2,000.00, and \$4,000.00, respectively, all secured by trust deed to Adello D. Avrill, conveying Electric Light Plant at Carbondale, Illinois. All said notes payable on demand; also secured by stock of said Electric Light Co., par value \$25,000.00.

Two thousand three hundred and ninety shares of stock of Idaho Canal Co., par value \$100.00 per share.

Five hundred shares of stock in Pocatello Power and Irrigation Co., par value \$100.00 per share.

Also all stocks, bonds, or other securities I own, or am interested in, both those which are now contained in safety deposit boxes of Globe Safety Deposit Company, and any such as are in any other place."

We have filed two petitions in the Circuit Court in the Churchill case, one asking for the delivery to us of the property assigned by Spalding above mentioned, the other asking for the delivery to us of the balance of the endowment fund. The answer to the second of these petitions is due to-day. The answer to the first will not be due for five days yet. The receiver of the bank is claiming to own, for the bank, all the property assigned to us by Spalding. He also, as you know, makes some claims to a part of the endowment fund.

This, we think, complies with your request. It ought to have been done before, but we have been so pressed with other matters that it was impossible.

Yours very truly,

WILSON, MOORE & McILVAINE.

Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

F. M. MCKAY,  
*President.*

## MEETING OF MARCH 9, 1897.

## ADJOURNED SESSION, APRIL 22, 1897.

The board met at the Palmer House, Chicago, at 10 o'clock a. m., Thursday, April 22d, pursuant to adjournment and adjourned to meet forthwith at the Sherman House, Chicago.

When the board met at the Sherman House, pursuant to adjournment, the following members were present: Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Pearce, Raymond, Smith and Mrs. Carriel and Mrs. Flower; those absent were Governor Tanner and Mr. Inglis.

President Draper made an informal report with regard to the condition of the appropriation bills. He also stated that acting upon authority given him at the last meeting of the board, he had engaged Mr. G. E. Gardner, of Worcester, Massachusetts, at a salary of \$2,000 a year, and Mr. C. C. Pickett, of Chicago, at a salary of \$1,500 a year, as instructors in the law school, the term of service to begin September 1, 1897.

On motion of Mr. Armstrong, these appointments were made.

The matter of the appointment of Miss Katherine Sharp as librarian of the University, presented by President Draper, was referred to a special committee consisting of President Draper, Mrs. Flower, and Mr. McLean, with power to act.

It was voted that Professor S. W. Shattuck be paid \$400 a year out of the funds of the School of Medicine for his services as business manager of that department of the University.

A petition was presented from many of the students of the college of engineering desiring that Mr. Goodenough, who had received an offer of a higher salary elsewhere, be retained as instructor in the University, but no action was taken thereon.

## GRADUATES OF SCHOOL OF PHARMACY.

The secretary reported that the faculty of the University recommended that diplomas be awarded to graduates of the school of pharmacy as follows:



## GRADUATES IN PHARMACY.

Eugene Daniel Allen,  
 Otto Balensiefer,  
 Otto Theobald Erhard Behmer,  
 Frederick Francis Ferdinand Behrens,  
 Harry Arthur Böyce,  
 Frederick Edward Albert Buchner,  
 Albert Eugene Clyde,  
 Francis Xavier Dieden,  
 George Charles Dittmann,  
 Elizabeth Elliott,  
 Emil John Fisner,  
 Harry Raymond Friedgen,  
 Charles Clifford Fulghum,  
 Carl Edward Gilbert,  
 Micaiah Anderson Harper,  
 Charles Frederick Hoch,  
 Peter William Jacobus,

George Gilmore Johnson,  
 David Landau,  
 Louis Lange,  
 Joseph Aloysius McGoey,  
 George Andrew Mark,  
 Harry Charles Mehrlich,  
 Harry George Menn,  
 Leopold Ludwig Mrazek,  
 Edward Charles Parsons,  
 Harry James Pier,  
 Henry Frederick Plautz,  
 Otto Porges,  
 Hiram Schwarz,  
 George Irving Washington Smith,  
 Mark Thomas Storen,  
 Evert Van Buren, Jr.,  
 William Frederick Waldron,  
 Mortimer Safford Wooster.

## PHARMACEUTICAL CHEMISTS.

Alma Babb,  
 Wilfrid James Bignold,  
 John Elliott Boudinot,

Arthur Kampman,  
 Charles Johnson Renshaw,  
 Luba Julia Robin,  
 Charles Walter Winne.

Authority was given to confer degrees according to the foregoing recommendation.

The Secretary reported that he had, as directed at the last meeting of the Board (see page 69), written to the Board of Trustees of Beloit College with regard to the differences between the base-ball teams of the two institutions, and that he had received the following letter in reply:

BELOIT, WISCONSIN, March 23, 1897.

*W. L. Pillsbury, Esq., Secretary Board of Trustees, University of Illinois.*

DEAR SIR:—I beg to acknowledge receipt of your favor enclosing the resolutions adopted by the Board of Trustees of the University of Illinois. An illness on my part has delayed an earlier acknowledgment of your communication.

Will you express to the Board of Trustees of the University of Illinois my sincere regret at the delay of the students of Beloit College to pay the sum due to the University of Illinois base-ball team under the decision of the referee? Should it be necessary I will bring the matter before the Executive Committee of the Board of Trustees of Beloit College at their next meeting in April; but I hope a settlement will have been made before that time. The seventy dollars must be paid with interest from date of the decision of the referee.

Sincerely yours,

EDWARD E. EATON,

*President Board of Trustees, Beloit College.*

The Secretary also stated that the amount due from the Beloit College ball team had been received.

Mr. McLean reported that, as a member of the Committee of the School of Pharmacy, he had endeavored to secure from Mr. Clough, owner of the building in which the School is held, a reduction of rent, but so far had not succeeded.

The Committee appointed at the last meeting of the Board to visit banks and ascertain what bonds belong to the endowment fund of the University of Illinois had been hypothecated by Charles W. Spalding. Treasurer, made the following report:

<sup>1</sup> URBANA, ILL., April 22, 1897.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN: Your Committee appointed at your meeting of the 14th inst., to visit banks in which it was supposed there were to be found bonds that had formerly been in possession of Mr. Charles W. Spalding, as Treasurer of University of Illinois, attended to the business on the 15th inst.

Mr. Pearce and Mr. Pillsbury, accompanied by Mr. Moore, of the firm of Wilson, Moore & Mellvaine, attorneys, went first to the Metropolitan National Bank and were there shown bonds No. 44 for \$500 and Nos. 51 to 57 inclusive, for \$1,000 each—amount, \$7,500—issued by the school directors of Pittsfield district July 2, 1883, which had formerly been held by the Treasurer of the University, Charles W. Spalding, and had been pledged to the bank as security for a demand note of \$7,000 bearing date March 16, 1897, made to himself by A. B. Camp, and by him indorsed. The note had been negotiated with the bank by Lobdell, Farwell & Co., brokers.

At the Northwestern National Bank your Committee found Cass County Union District No. 1, T. 17 N., R. 10 W. bonds Nos. 1 to 26, inclusive, for \$500 each, issued May 1, 1892; Litchfield school district bonds Nos. 1 to 8, inclusive, for \$1,000 each, issued September 1 and October 3, 1885, and January 1, 1886; Normal school district bonds Nos. 2 to 4, inclusive, for \$500 each, issued August 15, 1896; Shelby district No. 6, T. 11, R. 5, bonds Nos. 1 to 5, inclusive, \$400 each, issued July 23, 1896; Taylorville Township Board of Education bonds Nos. 3 to 20, inclusive, \$1,000 each, issued August 1, 1890; Austin Board of Education District No. 2, bonds Nos. 1 to 23, inclusive, issued July 1, 1893, for \$1,000 each; Shelby County School District No. 1, T. 14, R. 2, bonds Nos. 7 to 14, inclusive, for \$500 each, issued May 5, 1890; all of which had formerly been in possession of Charles W. Spalding, as treasurer of the University. The Committee also found that the bank had received with the bonds above named bond No. 1, issued by the Normal School District for \$500, which, with the interest thereon and interest on the rest of the Normal School District bonds, amounting to \$575 in all, the bank had collected April 7, 1897, it having matured April 1st. The bonds amounted to \$70,000. Your committee found that these bonds had been pledged as security for three notes given by Charles W. Spalding to the Northwestern National Bank; the first for \$25,000 on demand, given April 15, 1896; the second for \$20,000 on demand, given November 13, 1896; the third for \$20,000, discounted at ninety days, given January 13, 1897. Your Committee also found that the bank claimed to hold these bonds as security for a demand note of \$20,000, given by Charles W. Spalding November 4, 1896. Said note being secured according to the pledge thereon by real estate mortgage notes amounting to \$20,000.

After leaving this bank Mr. McKay joined the Committee, and Mr. Moore was obliged to leave in order to attend to other business.

Your Committee found at Illinois Trust and Savings Bank Macoupin county bonds of the issue of July 7, 1883, No. 512 for \$1,000, No. 588 for \$500, Nos. 651 to 653, inclusive, for \$1,000 each, Nos. 729 to 731, inclusive, for \$500 each; Morgan county bonds Nos. 89 to 95, inclusive, for \$1,000 each, issued June 15, 1887; Montgomery County School District No. 1, T. 8, bonds Nos. 8 to 13, inclusive, for \$1,000 each, issued September 15, 1887. Mattoon Board of Education bonds Nos. 1 to 12, inclusive, for \$500 each, issued August 1, 1892; all of which had been formerly in the possession of Charles W. Spalding as Treasurer of the University. These bonds amount to \$25,000. The bonds had been pledged to secure a demand note given by A. B. Camp to himself, and by him indorsed, bearing date February 26, 1897, amount \$21,250, payable at the office of Lobdell, Farwell & Co., brokers, and negotiated through them.

At the First National Bank your Committee found Kankakee county bonds of the issue of July 1, 1884, Nos. 1 to 48, inclusive, for \$1,000 each; Gallatin county bonds of the issue of July 1, 1885, Nos. 63 to 72, inclusive, No. 95, and Nos. 97 to 106, inclusive, for \$1,000 each; Logan county bonds of the issue of July 1, 1887, Nos. 36 to 50, inclusive, for \$1,000 each; Morgan county bonds of the issue of June 15, 1887, Nos. 61 to 83, inclusive, for \$1,000 each; Mans-

field School District No. 2 bonds Nos. 1 to 7, inclusive, for \$1,000 each, and No. 8 for \$100; Macoupin county bonds of the issue of July 1, 1883, Nos. 592 to 604, 633, 631, 634 to 703, inclusive, for \$500 each, and Nos. 825 to 828, inclusive, 836, 837, 839 to 845, inclusive, and 851, for \$1,000 each; Jasper county bonds of the issue of October 1, 1887, Nos. 66 to 80, inclusive, for \$1,000 each; Crawford county bonds of the issue of January 1, 1887, Nos. 43 to 51, inclusive, and No. 57 for \$1,000 each; Sidell School District No. 5 bonds Nos. 1 to 3, for \$900 each; School District No. 1, T. 13 N., 8 W., 3d P. M., Morgan county, Nos. 5 to 10, inclusive, \$1,000 each; Sangamon County School District No. 3, T. 15, R. 5 bonds Nos. 1 to 5, for \$1,000 each—all formerly held by Charles W. Spalding as Treasurer of the University. The amount of these bonds is \$185,000.

These bonds had been pledged by Charles W. Spalding to secure seven notes as follows: One demand note for \$25,000 dated December 30, 1895, interest paid at 6 per cent to March 31, 1897; one demand note for \$25,000 dated June 25, 1896, interest paid to March 31, 1897; (this note had been given as a renewal of a note given March 27, 1896, for the same amount); one demand note for \$25,000 given September 4, 1896, interest paid to March 31, 1897; one demand note for \$25,000 given September 23, 1896, interest paid to March 31, 1897; one 90 day note for \$25,000 given January 28, 1897, discounted; one 90 day note for \$25,000 given February 23, 1897, with interest after date; one 90 day note for \$25,000 given March 30, 1897. The face of these notes is \$175,000.

Each of these notes has endorsed upon it with Mr. Spalding's signature "Pass to the credit of Globe Savings Bank," except the renewal note named above, and your Committee was told that the original note of which the bank now holds the above renewal was similarly endorsed. Your Committee was also told that the proceeds of these notes had been passed to the credit of the Globe Savings Bank account and had been checked out by the officers of that bank.

To recapitulate—

Metropolitan Bank.....	bonds \$	7,500	to secure \$	7,000
Northwestern National Bank.....	"	70,000	"	65,000
Illinois Trust & Savings Bank.....	"	25,000	"	21,250
First National Bank.....	"	185,000	"	175,000
		\$287,500		\$268,250

There have been found bonds in the Globe Safety Deposit Vault belonging to the University amounting to \$124,810 (see below). These, with those enumerated above, leave \$5,000 of the University bonds still unaccounted for. These are Macoupin County bonds Nos. 588 to 591, inclusive, 173, 236, 279 and 514 for \$500 each, and No. 369 for \$1,000.

Respectfully submitted,

F. M. MCKAY,  
J. IRVING PEARCE,  
*Committee.*

The report was received for record.

Mr. Moore, our attorney, presented the following:

#### UNIVERSITY BONDS FOUND IN THE GLOBE SAFETY DEPOSIT VAULT.

Memorandum of an examination made of the articles in boxes 556 and — in the Globe Safety Deposit Vaults, Chicago, Illinois, made by the Clerk of the Circuit Court of Cook county under the direction of Judge Tuley, for the purpose of removing bonds to the vaults of the Illinois Trust and Savings Bank as directed by said Court in an order in the case of Charles E. Churchill vs. the Globe Savings Bank, et al., entered April 19, 1897.

The following persons were present: Henry W. Lehmann, vice-president of the Chicago Title and Trust Company, receiver herein; Charles E. Bradley, chief deputy clerk of the Circuit Court of Cook county; John M. Oliver, representing Charles W. Spaulding; Henry W. Magee, attorney for the receiver; Nathan G. Moore, attorney for the Trustees of the University; Herbert Skinner, private secretary of said Spaulding; and a stenographer in the employ of the said Magee.

Box 556 was first opened. The box was carried into the adjoining room and placed upon the table; the papers were taken therefrom by Mr. Lehman and opened in the presence of all of the above parties. There was found therein the following:

Fifty bonds of Champaign county, Illinois, dated July 1, 1882, numbered from 51 to 100, inclusive, each for \$1,000, all payable by their terms to the "Illinois Industrial University" neither endorsed nor stamped.

Also four bonds of School District No. 11, Township 19, Range 10, in said Champaign county, numbered 3, 4, 5 and 6, numbers, 3, 4 and 5 each for \$1,000, number 6 for \$650, all payable to the Board of Trustees of the University of Illinois.

Also one bond No. 1 issued by School District No. 10, township 17, range 14 west of the 2d principal meridian, and ranges 10 and 11 east of the 3d principal meridian, in Champaign county, Illinois, for \$1,000, payable to the University of Illinois.

Also one bond for \$3,000 issued by the Union School District No. 2, in said Champaign county, in township 22, range 7 and 8 east of the 3d principal meridian, dated July 1, 1894 and payable to the University of Illinois.

Also three bonds of District No. 6, township 19, ranges 8 and 9 east of the third principal meridian, in said county, numbered 1, 2 and 3, each for \$2,000, payable to the Trustees for the University of Illinois, dated January 31, 1891.

Twenty-nine Pike county funding bonds each for \$1,000, numbered 151 to 179, inclusive, all due July 1, 1899, payable to bearer; each of said bonds was stamped with a red square rubber stamp headed in large type, "Take Notice," stating in substance that the bonds belonged to the University of Illinois and were not negotiable. The stamp was signed "John W. Bunn, Treasurer," and was dated July 1, 1879.

Also one bond numbered one, issued by School District No. 2, Homer, Champaign county, township 18, range 14 west of said 2d principal meridian, for \$7,500, payable to the Trustees for the University of Illinois.

Also one bond numbered 5 for 1,000, issued by School District Township 16, Sangamon county, ranges 1 and 2 west of the 3d principal meridian, Illiopolis, payable to John H. Brinkerhoff or bearer, dated July 11, 1892, not stamped or endorsed.

Also twelve bonds each for \$500, numbered 29 to 40, issued by School District No. 1, township 19, range 8 east in said Champaign county, all dated August 1, 1889, and payable to the Board of Trustees for the University of Illinois, the first four being due August 1, 1897, the second four August 1, 1898, the third four August 1, 1899.

Also one bond numbered 13 for \$1,000, issued by School District No. 3, township 10 north, range 3 west, in Montgomery county, payable to the Trustees for the University of Illinois.

Also two bonds numbered 2 and 3, each for \$500, issued by School District No. 8, township 8, in said Montgomery county, dated August 10, 1889, payable to E. T. Oliver or bearer, not stamped or endorsed. Bond No. 2, payable August 1, 1897, No. 3 August 1, 1899.

Also three bonds of Normal School District, McLean county, numbered 5, 6 and 7, each for \$500, payable to bearer, not stamped or endorsed.

Also six bonds each for \$500, numbered from 7 to 12, inclusive, issued by School District No. 2, township 16, Sangamon county, Illinois, payable to Edward T. Oliver or bearer, not stamped or endorsed.

Also six bonds numbered 5 to 10, inclusive, each for 1,000, issued by the Urbana School District, payable to bearer, not stamped.

Also eight bonds of Macoupin county, Illinois, numbered 559, 560, 561, 562, 585, 586, 607 and 608, each for \$100, all dated July 1, 1883, payable to bearer, not stamped.

Also one [school bond numbered 12 for \$1,000, issued by School District No. 3, township 10, range 10, Montgomery county, Illinois, payable to George M. Brinkerhoff or bearer, dated July 15, 1887, payable July 1, 1897,] not stamped or endorsed.

Also four bonds numbered 2, 3, 4, and 5, each for \$840, issued by School District No. 1, township 18, range 10, in Champaign county, all dated July 1, 1895 and all payable to Charles W. Spaulding, Treasurer, not stamped or endorsed.

The above bonds were all taken into the custody of Mr. Bradley, as a deputy clerk and removed to the Illinois Trust and Savings Bank and there deposited in box number 5,530, which box was rented in the name of the clerk, and statement being made in the rental receipt that it was to be opened only upon special order of the Circuit Court of Cook County. The clerk put a gilt seal upon the face of it and took the keys.

I, N. G. Moore, was present when the box was rented and the bonds placed in it. I did not check them into the box but had seen them taken into the custody of Mr. Bradley and saw him put them into the box in the same packages.

Mr. McKay being obliged to withdraw at this time Mr. Armstrong took the chair.

#### SCHOOL OF PHARMACY.

A committee of the Advisory Board of the School of Pharmacy then presented the following report which was received for record and referred to the Committee on the School Pharmacy:

*Minutes of the Meeting of the Advisory Board of the School of Pharmacy of the University of Illinois, Wednesday, April 21, 1897.*

The meeting was called to order at 10:30 a. m. at the office of the School of Pharmacy, 465 State street. Present, Messrs. Rogers, Ebert, Biroth, Swannell, Loehr, Semphill, and Sherer.

The Faculty had been requested to meet with the board, and there were present Professors Goodman, Hallberg, Hereth, Puckner, and Day.

Dr. H. H. Rogers was elected Chairman of the meeting, and W. B. Day, Secretary. After some informal discussion it was resolved that the Advisory Board do advise and recommend instruction in Physiology and Anatomy to be given in connection with the regular course in so far as they relate to the practice of Pharmacy.

The meeting adjourned until 2:30 p. m.

The meeting was again called to order at 2:55 p. m. by Chairman Rogers. Mr. Hereth was requested to act as Secretary during the temporary employment of Mr. Day with urgent business.

All the members were present who attended the morning meeting together with the members of the Faculty.

Discussion then took place relative to making the pharmaceutical and dispensing laboratories a separate department. Discussion was opened by Mr. Ebert, and was followed in turn by nearly all others present. It was suggested by Mr. Ebert that the pharmaceutical and dispensing laboratories should be placed under the management of one director in a department by itself, or in the event of this proposition not finding favor, that both departments be placed under the direct supervision of the professor of pharmacy.

It was moved by Mr. Swannell and seconded by Mr. Ebert that further discussion of this question be left until the meeting of the Illinois Pharmaceutical Association in Champaign on June 2d, when the Advisory Board would meet again.

It was suggested by Professor Goodman that the branch of Microscopy be separated from the Department of Materia Medica, and be placed in the charge of Mr. Day as Professor of Microscopy. This suggestion was also referred to the Advisory Board for action at its next meeting in June.

Mr. Sempill suggested that the Trustees be requested to make arrangements to give students a limited course in book-keeping; no action was taken upon this subject.

Professor Puckner suggested that the title of "Professor of Physics" be dropped from his name in the announcement.

After free discussion of the several matters presented, the present requirements on admission to the School were considered, but it was thought best not to make any change at present.

At the suggestion of Mr. Day, the question of equipment of the School was discussed. On the recommendation of the Faculty the Board resolved to recommend to the Trustees that the equipment be increased as rapidly as possible up to the required needs. The question of fees also came up, but it was decided best to recommend no change. The condition of the library was also discussed. It was moved by Mr. Swannell that the attention of the Trustees be called to the unbound volumes in the library of the School of Pharmacy, many of which are very valuable, and that they be requested to make an appropriation of at least \$100.00 to bind them. The motion was seconded by Mr. Biroth and carried unanimously.

Mr. Biroth wanted a report on the financial condition of the School, but on account of the fact that the books were at Champaign, Mr. Day said he could not make the report, but stated that the School would probably pay all of its expenses for the past term.

Mr. Ebert gave it as his opinion that, if the present building be retained, a lease of at least three years be made so that a new lecture hall might be built from the balcony. The opinion was concurred in by all present, especially since the School is in very urgent need of another lecture hall.

Requirements for graduation were then brought up for discussion.

It was moved by Mr. Loehr, and seconded by Mr. Scherer, that the following clause be inserted in the announcement under the published requirements for graduation: "Candidates for the degree of graduate in pharmacy of less than the legal age may receive the degree of pharmaceutical chemist in lieu thereof."

The meeting then adjourned at 5:15 to meet on Thursday, April 22d, at 9:30 a. m.

W. B. DAY, Secretary.  
ALBERT E. EBERT,  
THEO. C. LOEHR,  
HENRY SWANNELL,  
HENRY BIROTH,  
H. H. ROGERS.

In the absence of the chairman of the Advisory Board the report was presented by Mr. Swannell.

The Business Manager presented two reports from Mr. Spalding; but as these were without a signature they were handed back to Professor Shattuck and he was directed to procure Mr. Spalding's signature to them.

Messrs. Going and Camp, alumni of the University, were given an opportunity to explain steps which they had taken looking towards an indictment of Charles W. Spalding for using University funds.

Mr. McKay having resumed the chair.

DEMAND UPON MR. SPALDING.

CHICAGO, Illinois, April 22, 1897.

To the Board of Trustees of the University of Illinois.

GENTLEMEN:—I beg leave to report that as directed by the Board, I went with Mr. Moore, Attorney, and Mr. Keith, Treasurer and called upon Charles W. Spalding, late Treasurer of the Board of Trustees, on April 14th. That Mr. Keith made specific demand for all moneys, notes, bonds, stocks, books of record, and other property belonging to the University of Illinois. That Mr. Spalding said in answer that he could not comply with the demand. And that he did not comply with said demand, and that directly he said again he could not comply with such demand.

Respectfully submitted,  
THOS. J. SMITH.

The report was received for record.

The Board then adjourned to meet at 2:30 o'clock p. m.

AFTERNOON SESSION.

The Treasurer's reports, duly signed, were received and referred to the Finance Committee.

TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS  
March 31, 1897.

1896.		<i>Dr.</i>	
December	31	Balance.....	\$204,968
1897.			
January	2	Coupons, Austin, Cook county, due January 1, 1897.....	\$575 00
	4	Principal due January 1, 1897, land contract No. 74, Berthel Pederson.....	70 00
	4	Interest due January 1, 1897, land contract No. 74, Berthel Pederson.....	7 35
	4	Principal due January 1, 1897, land contract No. 69, Berthel Pederson.....	160 00
	4	Interest due January 1, 1897, land contract No. 69, Berthel Pederson.....	11 20
	4	Principal due January 1, 1896, land contract No. 81, F. Topka.....	150 00
	4	Interest due January 1, 1897, land contract No. 81, F. Topka.....	52 50
	4	Principal on contract No. 64, E. Lindquist.....	175 00
	4	Interest due January 1, 1897, contract No. 64, E. Lindquist.....	63 00
	4	Interest due January 1, 1897, contract No. 117, Joseph Cuta.....	4 00
	6	Principal due January 1, 1897, contract No. 72, Dale & Royse.....	120 00
	6	Interest due January 1, 1897, contract No. 72, Dale & Royse.....	50 40
	6	U. S. Experiment Station warrant, due January 1, 1897.....	3,750 00
	9	Interest on contract No. 54, B. F. Leiby.....	105 61
	9	Principal on contract No. 99, Nels Olson.....	175 00
	9	Interest on contract No. 99, Nels Olson.....	33 50
	9	Remittance from S. W. Shattuck on account of School of Pharmacy.....	1,000 00
	12	Principal due January 1, 1894, contract No. 66, Peter Larson.....	133 33
	12	Interest due January 1, 1897, contract No. 66, Peter Larson.....	74 67
	15	Interest due January 1, 1897, contract No. 73, Olaf Mattson.....	70 00
	30	Mattoon, Coles county, coupons, due February 1, 1897.....	150 00
February	1	Union District No. 6, Champaign county coupons, due February 1, 1897.....	270 00
	4	Richland District No. 6, Shelby county coupons, due February 1, 1897.....	70 00
	6	Principal on contract No. 83, L. V. Botten.....	360 00
	6	Interest on contract No. 83, L. V. Botten.....	34 74
	8	Interest due January 1, 1895, and accrued interest to January 1, 1897, contract No. 61, A. Marquand.....	128 96
	13	Interest due January 1, 1897, and accrued interest to February 13, 1895, contract No. 37, W. H. Gibler.....	314 00

Treasurer's Report—Continued.

1896				
February	13	Remittance from S. W. Shattuck, account of general fund	2,000 00	
"	13	Remittance from S. W. Shattuck, account of School of Pharmacy	1,000 00	
"	15	Mansfield, Piatt county coupons, due July 1, 1896	213 00	
"	17	Interest due January 1, 1897, and accrued interest to February 15, 1897, contract No. 58, E. Muhlhausen	112 72	
"	19	Interest due January 1, 1897, and accrued interest to February 19, 1897, contract No. 54, B. F. Leiby	98 75	
"	20	Interest due January 1, 1897, and accrued interest to February 20, 1897, contract No. 40, Joseph Dezort	97 23	
"	26	Remittances from S. W. Shattuck, account of School of Pharmacy	582 45	
"	26	From S. W. Shattuck, paid warrants on account of general fund	2,034 55	
"	26	From S. W. Shattuck, paid warrants on account of farm fund, Experiment Station	367 07	
March	4	Principal on contract No. 64, E. Lindquist	55 00	
"	4	Accrued interest on contract No. 64, E. Lindquist	88	
"	6	Remittance from S. W. Shattuck, on account of general fund	2,000 00	
"	6	From S. W. Shattuck, paid warrants on account of general fund	1,021 00	
"	6	From S. W. Shattuck, paid warrants on account of farm fund, Experiment Station	286 05	
"	29	Interest on account No. 62, E. W. Harms, assignee	100 00	
				\$18,094 99
1897.		<i>Cr.</i>		\$223,063 80
March	31	By amount paid out of general fund, as per list of warrants herewith	\$10,573 95	
"	31	By amount paid out of U. S. Experiment Station fund, as per list of warrants herewith	3,030 81	
"	31	By amount paid out of farm fund, as per list of warrants herewith	448 40	
"	31	By amount paid out of School of Pharmacy fund, as per list of warrants herewith	5,380 70	
"	31	By amount paid out of U. S. fund as per list of warrants herewith	5,220 20	
"	31	By amount paid out of the following State appropriations, as per list of warrants herewith—		
		Salaries, etc	24,841 93	
		Library building	21,291 47	
		Library	1,399 94	
		Laboratory of Natural History	1,995 00	
		Cabinets	2 85	
		Engineering College	1,073 54	
		Astronomical Observatory	2,014 45	
		Fitting and furnishing Engineering Hall	233 34	
		Biological Experiment Station	584 55	
		Apparatus and material	862 59	
		Shop practice	216 05	
		Chemical Laboratory	330 50	
		Fire protection	26 80	
		Laboratory Vaccine Virus	453 60	
				\$79,954 67
		<i>Balances—</i>		
		General fund	7,267 68	
		Endowment fund	38,602 91	
		School of Pharmacy	1,053 06	
		United States fund (closed out)		
		U. S. Experiment Station fund	1,799 23	
		Farm fund	571 30	
		<i>State Appropriations—</i>		
		Salaries	34,178 04	
		Library building	45,014 00	
		Library	201 53	
		Laboratory of Natural History	3,408 91	
		Cabinets	1,646 10	
		Engineering College	1,766 28	
		Astronomical Observatory	2,279 37	
		Fitting and furnishing Engineering Hall	918 69	
		Biological Experiment Station	604 04	
		Apparatus and material	763 87	
		Shop practice	256 07	
		Chemical Laboratory	867 56	



*Treasurer's Report—Concluded.*

March	31	State Appropriations—Concluded.		
		Laboratory of Vegetable Physiology .....	59	02
		Fire protection.....	326	81
		Laboratory Vaccine Virus .....	1,524	66
				143,109 13
				\$223,063 80

CHARLES W. SPALDING,  
*Treasurer.*

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

April 12, 1897.

		<i>Dr.</i>		
1897.		Balance March 31, 1897.....		\$143,109 13
April	1	Interest due January 1, 1897, and accrued interest to April 1, 1897, on contract No. 75 .....	\$53	37
"	1	Interest due January 1, 1897, and accrued interest to April 1, 1897, on contract No. 76 .....	53	38
"	12	From Charles W. Spalding, treasurer, interest at 4 per cent on endowment fund balances, from January 1, 1897, to April 12, 1897, inclusive.....	428	43
"	12	From Charles W. Spalding, treasurer, interest at 2½ per cent on appropriation and general fund balances, from January 1, 1897, to April 12, 1897, inclusive.....	879	45
1897.				1,414 63
		<i>Cr.</i>		
April	12	By amount paid out of general fund, as per list of warrants herewith.....	\$2,491	56
"	12	By amount paid out of U. S. Experiment Station fund, as per list of warrants herewith.....	994	68
"	12	By amount paid out of farm fund, as per list of warrants herewith.....	15	39
"	12	By amount paid out of School of Pharmacy fund, as per list of warrants herewith.....	1,142	54
"	12	By amount paid out of the following State appropriations, as per list of warrants herewith—		
		Salaries, etc.....	8,147	28
		Library building.....	210	75
		Library.....	55	38
		Laboratory of Natural History.....	304	80
		Engineering College.....	31	80
		Fitting and furnishing Engineering Hall.....	77	50
		Biological Experiment Station.....	120	00
		Apparatus and material.....	2	50
		Shop practice.....	3	00
		Chemical Laboratory.....	72	15
		Fire protection.....	6	01
		Laboratory of Vaccine Virus.....	52	00
				\$13,727 3
		<i>Balances—</i>		
		General fund.....	\$6,190	75
		Endowment fund.....	38,602	91
		U. S. Experiment Station fund.....	804	55
		Farm fund.....	555	91
		<i>State Appropriations—</i>		
		Salaries, etc.....	26,030	76
		Library building.....	44,803	25
		Library.....	146	15
		Laboratory of Natural History.....	3,104	11
		Cabinets.....	1,646	10
		Engineering College.....	1,734	48
		Astronomical Observatory.....	2,279	37
		Fitting and furnishing Engineering Hall.....	841	19
		Biological Experiment Station.....	484	04
		Apparatus and material.....	761	37
		Shop practice.....	253	07

## Board of Trustees—Concluded.

April	12	State Appropriations—Concluded.	
		Chemical Laboratory .....	795 41
		Laboratory of Vegetable Pyhsiology .....	59 02
		Fire protection.....	320 80
		Laboratory of Vaccine Virus.....	1,472 66
			\$130,885 90
		Less overdrafts School of Pharmacy .....	89 48
			130,796 52
			\$144,523 76

CHARLES W. SPALDING,

Treasurer.

The Business Manager presented the following statement:

## BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS IN ACCOUNT WITH CHARLES W. SPALDING, TREASURER.

April 12, 1897.

1897.	31	Balance (University books) .....	\$92,363 45
March	1	Interest on land contracts Nos. 62, 75, 76.....	206 75
April	12	Interest from treasurer, 2½ per cent.....	879 45
"	12	Interest from treasurer, 4 per cent.....	428 43
"	12	Unpaid warrants .....	3,332 40
"	12	In Business Manager's hands March 31, 1897.....	\$4,916 97
"	12	Balance .....	92,293 51
			\$97,210 48
1897.			\$97,210 48
April	12	Endowment fund—	
		Invested in bonds .....	\$418,110 00
		Balance uninvested .....	38,602 91
			\$456,712 91

This statement was received for record and referred to the Finance Committee.

The following letter was presented to the Board by Mr. Armstrong:

CHICAGO, April 14, 1897.

James E. Armstrong, Esq., Trustee University of Illinois, Chicago.

MY DEAR SIR:—The following telegrams have passed between President Draper and myself this day:

"I will be one of ten men to advance fifty thousand dollars or as much thereof as may be necessary to carry the University through current year, enabling Trustees to straighten out financial tangle. You can communicate this suggestion to Trustees if you desire." (Signed) JOHN FARSON.

"Your kind offer received and appreciated. The Trustees are in session at the Sherman House and I suggest that you send it to them direct." (Signed) A. S. DRAPER, President.

Trusting that your difficulties are not so serious as the papers would indicate, I am

Yours very truly,

JOHN FARSON.

The Secretary was instructed to make grateful acknowledgment of Mr. Farson's generous offer.

The following resolution offered by Mr. McLean was adopted:

*Resolved*, That the President of the Board be, and is hereby, directed to instruct the firm of Wilson, Moore & McIlvaine, attorneys, to enter appearance on behalf of the Board and its officers and defend in the suit in chancery, Chas. E. Churchill *vs.* The Globe Savings Bank, *et al.*, to which the members of the Board and some of its officers are made parties defendant.

A communication from Drs. Steele and Quine with reference to appointments for the ensuing year in the School of Medicine was referred to the Committee on the School of Medicine with power to act.

The President announced the standing committee of the School of Medicine as follows: Mr. Armstrong, Chairman; Mrs. Flower, Mr. McLean, President Draper, and Professor Shattuck.

The Committee was authorized to provide for issuing the usual regular announcement of the School of Medicine.

#### MUSIC DEPARTMENT.

President Draper stated that an appointment should be made as soon as practicable of a woman to give instruction in vocal music. In this connection Mr. Smith introduced the following resolution:

*Resolved*, That it is the sense of this Board that the Department of Music should be reorganized; that it should be put upon the basis of a distinct college in the University; that a dean should be employed with sufficient assistants; that no greater tuition be charged to students in music than is charged to students in other departments, and that degrees be granted to graduates in this college.

This resolution was referred to President Draper and the Committee on Instruction, who were directed to report at the next meeting of the Board.

Authority was also given to employ an instructor in vocal music.

The Board then adjourned to meet at the Great Northern Hotel, in Chicago, at 11 o'clock, Friday.

#### SESSION OF FRIDAY.

When the Board met at the Great Northern Hotel, pursuant to adjournment, the same members were present as on the day preceding.

The Committee on Buildings and Grounds made the following report:

#### LIBRARY BUILDING.

CHICAGO, Illinois, April 23, 1897,

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN: Your Committee on Buildings and Grounds begs leave to report that by its direction the architects of the Library Building have obtained proposals for the gas and electric fixtures for the building based upon the specifications of the architects.

The two proposals received are as follows:

From W. C. Vosburgh Manufacturing Company, Chicago, all complete for \$2,116.90.

From Twin City Electrical Company, Champaign, and guaranteed by the Chicago Gas and Electric Fixture Manufacturing Company, of Chicago, all complete for \$1,800.00.

Your Committee has examined the cuts and drawings of the fixtures submitted by the parties bidding and recommends that contracts be entered into for the work with the Twin City Electric Company for \$1,800.00 for the work complete as soon as the legislative appropriation bill is passed or money available.

We have also received a proposal from the Library Bureau for putting in two floors and shelving in the book room of the library for \$2,000.00, or all three floors for \$3,000.00, a statement being made that a charge in excess of \$1,000.00 would have to be made for the third floor and shelving, if the work were done at different times. Your Committee therefore recommends that a contract of the whole amount be entered into as soon as the legislative appropriation bill for the next two years is passed including the items for furnishing and completing the library building. Respectfully submitted,

S. A. BULLARD,  
LUCY L. FLOWER,  
J. E. ARMSTRONG,  
Committee.

The report of the Committee was approved and the Committee was authorized to make contracts, as proposed.

Mr. Armstrong moved that the Faculty of the School of Medicine be considered elected when approved by the President of the University and the Committee on the School of Medicine.

The motion prevailed.

On motion of Mr. Raymond the rules of the Board were so revised that the charge of the land contracts was transferred from the Treasurer to the Business Manager.

On motion of Mr. Bullard, the Finance Committee was instructed to report such changes in the rules with regard to the conduct of University business as should be necessary to separate the offices of Treasurer and Business Manager.

The Board then adjourned to meet at 4 o'clock p. m., and at that time adjourned without date.

W. L. PILLSBURY,  
Secretary.

F. M. MCKAY,  
President.

## MEETING OF JUNE 8, 1897.

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The Board of Trustees of the University of Illinois met in the President's office at the University, in Urbana, Illinois, at 3 o'clock p. m., Tuesday June 8, 1897.

The members present were Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Pearce, Raymond, and Smith, and Mrs. Flower and Mrs. Carriel; absent, Governor Tanner and Mr. Inglis.

The minutes of the meeting of March 9, 1897, and the adjourned session of that meeting held April 22, 1897, and also the minutes of the special meeting of April 13, 1897, were approved as presented by the Secretary.

Mr. Smith, from the committee appointed to make inquiries with regard to bill for legal services rendered by Mann, Hayes & Miller, reported that he had endeavored to see these gentlemen several times but had not succeeded in having an interview with them. Later during the meeting the bill was referred to Messrs. McKay and Armstrong to settle.

### DEGREES CONFERRED.

Authority was given to confer degrees upon the persons named below in accordance with the recommendation of the Faculty of the University.

#### COLLEGE OF LITERATURE AND ARTS.—DEGREE OF BACHELOR OF ARTS.

##### IN SPECIALIZED COURSES.

George Andrew Barr.

Herbert Milford Wallace.

##### IN GENERAL COURSES—NO THESES.

James Ellis Armstrong,  
John Frederick Garber,  
Shirley Kendrick Kerns,  
William Henry Kiler,  
Wesley Edward King,  
Harold H. Kirkpatrick,  
Laura Kratz,  
Martha Jackson Kyle,  
Margaret Henrietta Johanne Lampe.

Belle Lorraine McFadden,  
Marinda Ice Middleton,  
Walter Montgomery Morgan,  
Grace May Munhall,  
Horace Chamberlain Porter,  
Susan Elizabeth Thompson,  
Julia Flora Winter,  
Mabel Helen Zully.

## COLLEGE OF ENGINEERING.—DEGREE OF BACHELOR OF SCIENCE.

## IN ARCHITECTURE.

Eugene Herman Brandt,  
Frank Read Capron,  
Elmer Edgar Dunlap,  
Carl John Horn,  
Charles Howison,  
Meldora Ice,  
Theodore Charles Kistner,  
Carl Oscar Kuehne.

Norman Foote Marsh,  
John Louis Parr,  
Francis John Plym,  
Ralph Steele Shepardson,  
Wallace Douglas Teeple,  
Walter Cheney Vail,  
Hubert Anthony Webber.

## IN ARCHITECTURAL ENGINEERING.

Orval Lee Gearhart,  
George J. Jobst,

Fred Wilcox Spencer.

## IN CIVIL ENGINEERING.

George Forbes Anderson.  
Ralph Plumb Brower,  
Harry Hugh Hadsall,  
Albert Claude Hobart,

Frank Alexis Hughes,  
Theodore Julius Klossowski,  
John Edward Pohlman.

## IN ELECTRICAL ENGINEERING.

Hubert Vinton Carpenter.  
Manley Earle Chester,  
Octave Besançon Clark,  
Charles Virgil Crellin,  
Oliver David Havard,  
Charles Sigurd Larsen,  
Loren William Marsh,

William Allen Pepper,  
Edward Warren Poole,  
Francis William Henry Postlethwaite,  
George Otto Steinwedell,  
Stephen George de Vries,  
George Mighell Wakefield,  
Floyd Whittemore.

## IN MECHANICAL ENGINEERING.

Charles David Beebe,  
William Raymond Dull,  
Bert A. Gayman,  
George Lyman Grimes,  
Arthur Richard Mann,  
Fred Irwin Nelson,

Dwight T. Randall,  
William Wesley Sayers,  
Joel Reynolds Saylor,  
William Daniel States,  
Charles Dutton Terry,  
Walter Zimmerman.

## IN MUNICIPAL AND SANITARY ENGINEERING.

Carl Merriman Nye.

## COLLEGE OF SCIENCE.—DEGREE OF BACHELOR OF SCIENCE.

## IN CHEMISTRY.

Walter Burrows Brown,  
Arthur Ernest Paul,

John Langley Sammis,  
Louie Henrie Smith.

## IN NATURAL SCIENCE.

James Ansel Dewey,  
Louise Sarah Dewey,  
Ernest Browning Forbes,

Clyde Denny Gulick,  
Frederick William Schacht,  
Charles Whittier Young.

## IN MATHEMATICS AND ASTRONOMY.

William Charles Brenke,  
Charles Wilbur Leigh,

Adam Vause Miller,  
Charles Edwin Van Orstrand.

## IN GENERAL COURSES—NO THESES.

Luella Eugenia Buck,  
Thomas B. Beadle,  
Fred Hugh Manny,

Francis Joseph Murphy,  
Clarence Orville Pitney,  
Charles Clyde Rayburn.

## COLLEGE OF AGRICULTURE—DEGREE OF BACHELOR OF SCIENCE.

Alvin Casey Beal,

Ralph Waldo Braucher.

## GRADUATE SCHOOL—MASTERS' DEGREES.

## DEGREE OF MASTER OF ARTS.

Charles Ammerman,  
Charles Nelson Cole,  
Mary Maude Cole.

Charles Hunter Garnett,  
Edward Barker Scoggan,  
John Nathaniel Spangler.

## DEGREE OF MASTER OF LITERATURE.

John Ralph Neely.

Stephen Avery Reynolds.

## DEGREE OF ARCHITECTURAL ENGINEER.

John Calvart Sample.

## DEGREE OF CIVIL ENGINEER.

Almon Daniel Thompson.

## DEGREE OF ELECTRICAL ENGINEER.

Walter Gilbert Campbell.

## DEGREE OF MASTER OF SCIENCE.

Robert Humphrey Forbes.

Upon recommendation of the Faculty Governor Tanner has given the following named graduates commissions as brevet captains in the Illinois National Guard:

Ralph Plumb Brower,  
Alvin Casey Beal,  
Albert Claude Hobart,

Horace Chamberlain Porter,  
George Forbes Anderson,  
Charles Wilbur Leigh.

## RECOMMENDATIONS BY PRESIDENT DRAPER.

*To the Board of Trustees.*

I respectfully recommend the following changes in the instructional force:

## NEW APPOINTMENTS.

1. That Miss Katharine L. Sharp be appointed Professor of Library Economy, Head Librarian, and Director of the Library School, at a salary of \$2,000.00 per annum.
2. That Miss Mary L. Jones be appointed Assistant Professor of Library Economy, and Librarian, at a Salary of \$1,200.00 for the first year, \$1,300.00 for the second year, and \$1,400.00 for the third year.
3. That Miss Margaret Mann be appointed Cataloguer, and Instructor in Library Economy, at a salary of \$900.00 per annum.
4. That Miss Alison Marion Fernie be appointed Instructor in Vocal Music at a salary of \$1,200.00 per annum, and an addition of fifty per cent. of the receipts for tuition, in her department, in excess of that sum.
5. That Miss Agnes S. Cook be appointed instructor in Rhetoric for ten months at \$70.00 per month.
6. That Mr. Arthur C. Howland be appointed instructor in Ancient and Mediæval History for ten months at a salary of \$80.00 per month.
7. That Mr. Chester H. Rowell be appointed instructor in German for ten months at a salary of \$70.00 per month.

8. That Mr. George H. Meyer be appointed instructor in German for ten months at a salary of 70.00 per month.

9. That Charles Brewster Randolph be appointed Instructor in Greek and Latin in the Preparatory School, for ten months at a salary of \$70.00 per month.

10. That William H. Kavanaugh be appointed Instructor in Mechanical Engineering for ten months at a salary of \$80.00 per month.

#### PROMOTIONS.

1. That Evarts B. Greene, Associate Professor of History, be appointed Professor of History, at present salary.

2. That Lewis A. Rhoades, Assistant Professor of the German Language and Literature, be appointed Associate Professor of the German Language and Literature, at a salary of \$1,700.00 per annum.

3. That Seth J. Temple, Instructor in Architecture, be appointed Assistant Professor of Architecture, at a salary of \$1,200.00 per annum.

4. That James D. Phillips, Instructor in General Engineering Drawing, be appointed Assistant Professor of General Engineering Drawing, at a salary of \$1,000.00 per annum.

5. That Henry H. Everett, Assistant Professor of Physical Training and Director of the Gymnasium, be appointed Associate Professor of Physical Training and Director of the Gymnasium, at a salary \$1,600.00 per annum.

#### REAPPOINTMENTS.

1. That George A. Huff be reappointed Assistant Director of the Gymnasium and Coach of Athletic teams for ten months at \$120.00 per month.

2. That Ella H. Morrison be reappointed Director of Physical Training for Women for ten months, at a salary of \$100.00 per month.

3. That Joseph C. Blair be reappointed Instructor in Horticulture and Assistant Horticulturist at the Agricultural Experiment Station at a salary of \$1,100.00 per annum, to be equally divided between the University and the Station.

4. That Wilber J. Fraser be reappointed Instructor in Dairying and Assistant in Charge of Dairy Experiments at the Agricultural Experiment Station, at a salary of \$75.00 per month, to be divided equally between the University and the Station.

5. That the following named foremen in the shops be reappointed for ten months, at the monthly salary set opposite their names, viz.:

(a) Cyril B. Clark, machine shop.....	\$85 00
(b) Albert R. Curtiss, wood shop.....	85 00
(c) Henry Jones, smith shop.....	60 00
(d) Joseph H. Wilson, foundry.....	60 00

6. That the following instructors be reappointed for ten months at the monthly salaries set opposite their names:

(a) Oscar Quick, physics.....	\$80 00
(b) Edward J. Lake, free hand drawing.....	70 00
(c) Carlton B. Rose, chemistry.....	80 00
(d) Alton C. Burnham, mathematics.....	90 00
(e) William C. Brenke, mathematics and astronomy.....	75 00
(f) Lillie A. Clendenin, English in preparatory school.....	65 00
(g) Reuben S. Douglass, mathematics in preparatory school.....	75 00
(h) Charles F. Hottes, botany.....	70 00



## PHYSIOLOGY AND PSYCHOLOGY.

For widely different reasons the relations which the Assistant Professor of Psychology and the Associate Professor of Physiology and Vertebrate Anatomy have sustained to the University have not been altogether satisfactory. I have endeavored to improve matters until I have lost hope of accomplishing that end. Aside from personal characteristics which stand in the way of the success which is desired in these departments, the two should be so organized that they will supplement each other, and that is altogether impossible under present conditions. Moreover, I have the feeling that a strong man in physiology, with a good, young instructor in experimental psychology, or a strong man in the laboratory psychology, with a good instructor in physiology, and preferably the latter arrangement, would answer every call upon the University and produce better results than are now obtained. I have had considerable correspondence with men who are available, but am not yet prepared to recommend an appointment, and probably it is not best to recommend an appointment until it is settled that the Board of Trustees would be willing to adopt my view as to the general course which it is advisable to pursue. For the purpose of determining the latter question, I respectfully recommend that the services of the two professors referred to be discontinued from and after the close of the present year, and that in the meantime I be authorized to engage the services of such person or persons to carry on the work of these departments as may seem most advantageous to the University.

The recommendations of the four foregoing papers were severally approved as read.

The Board adjourned to meet at 8 o'clock p. m.

## EVENING SESSION, JUNE 8, 1897.

When the Board met pursuant to adjournment the same members were present as in the afternoon.

Mr. Smith, having asked the consent of the Board therefor, introduced Mrs. Wilder, Mrs. Cushing, Mrs. Ray, and Mrs. Stewart, ladies of Champaign, who addressed the Board with regard to the establishment of a College of Music in the University.

## CHANGES IN SALARIES OF PROFESSORS.

1. That the salary of Lester P. Breckenridge, Professor of Mechanical Engineering, be \$2,250 per annum, and that his duties cover the supervision of the heating plant.
2. That the salary of Ira O. Baker, Professor of Civil Engineering, be \$2,250 per annum.
3. That the salary of Herbert J. Barton, Professor of the Latin Language and Literature, be \$2,100 per annum.
4. That the salary of Arnold Tompkins, Professor of Pedagogy, be \$2,000 per annum.
5. That the salary of George W. Myers, Associate Professor of Astronomy and Mathematics, be \$1,800 per annum.
6. That the salary of James M. White, Associate Professor of Architecture, be \$1,600 per annum.
7. That the salary of William D. Pence, Assistant Professor of Civil Engineering, be \$1,600 per annum.
8. That the salary of Harry S. Grindley, Assistant Professor of Chemistry, be \$1,300 per annum.
9. That the salary of Thomas A. Clark, Assistant Professor of Rhetoric, be \$1,600 per annum.

10. That the salary of Bernard V. Swenson, Assistant Professor of Electrical Engineering, be \$1,300 per annum.

11. That the salary of William Esty, Assistant Professor of Electrical Engineering, be \$1,300 per annum.

12. That the salary of Arthur H. Daniels, Assistant Professor of Philosophy, be \$1,300 per annum.

13. That the salary of Charles W. Tooke, Assistant Professor of Public Law and Administration, be \$1,300 per annum.

14. That the salary of Walter Howe Jones, Professor of Music, be \$1,200 per annum, and one-half of the fees received from his instruction in excess of that amount.

15. That the salary of Fred A. Sager, Assistant Professor of Physics, be \$1,200 per annum.

16. That the salary of Cyrus D. McLane, Assistant Professor of Architectural Construction, be \$1,200 per annum.

17. That the salary of Perry G. Holden, Assistant Professor of Agricultural Physics and Assistant Agriculturist at the Agricultural Experiment Station, be \$1,300 per annum, to be divided equally between the University and the Station.

18. That the salary of John E. McGilvrey, Assistant Professor of Pedagogy and High School Visitor, be \$1,300 per annum.

19. That the salary of Herman S. Piatt, Assistant Professor of Romance Languages, be \$1,200 per annum.

20. That the salary of Mr. W. L. Pillsbury, Registrar, be \$2,250 per annum.

#### LABORATORY AND OFFICE ASSISTANTS.

The custom of appointing laboratory and other assistants and continuing them indefinitely, with frequent efforts to increase their salaries, has grown up with the University. In my judgment such places should be filled at not more than \$500 the first year, and \$600 the second year of incumbency; that such compensation should not be increased beyond that amount; and that the incumbent should go elsewhere as soon as the end of the second year and make room for bright graduates who are coming on. I recommend that, after consultation with the heads of departments named, the President be authorized to appoint laboratory assistants in the following departments, at the compensation named above, viz.

1, Chemistry; 2, Geology; 3, Physics; 4, Civil Engineering; 5, Mechanical Engineering; 6, Theoretical and Applied Mechanics; 7, Economics; and 8, General Engineering Drawing.

#### WATER SURVEY.

I recommend that Mr. C. V. Miller be reappointed as chief assistant for the next year in the water survey, at \$75.00 per month, and that Professor Palmer be authorized to appoint a second assistant for the year at \$50.00 per month.

#### RE-ELECTION OF DEANS.

I recommend that the present deans of the general Faculty and the Colleges be re elected.

#### WHEN TO TAKE EFFECT.

It is recommended that all terms of employment, and other changes in the instructional force, go into effect at the first day of September next, unless otherwise specifically directed.

## VACANCIES.

There are vacancies in the instructorship of instrumental music and in the Preparatory School in the position formerly occupied by Nathan A. Weston, for which I am not yet ready to make recommendations. Each should be filled for from \$70.00 to \$80.00 per month, and I would be glad if you would confer upon me authority to fill them after the meeting of the Board, at salaries not larger than amounts named.

The recommendations of the foregoing papers were severally approved as read.

## OTHER EMPLOYEES.

I make the following recommendations touching other employés of the University:

## HEATING PLANT.

That the employés in the heating station be reappointed as follows:

1. Joseph Morrow at \$900.00 per annum.
2. E. W. Justus at \$50.00 per month.
3. John Doughty at \$50.00 per month.
4. Charles B. Ewalt, helper, at \$25.00 per month.
5. That three other helpers be authorized for such time as may be deemed necessary at not to exceed \$240.00 per annum each.

## JANITORS AND WATCHMEN.

1. That the appointment of all janitors and watchmen terminate at the first of July, unless specifically continued by the Superintendent of Buildings and Grounds.
2. That a night watchman and day watchman be authorized at \$40.00 per month.
3. That janitors be authorized for the different buildings as follows:

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	Per month.
(a) Library building .....	\$40 00
(b) University Hall .....	37 00
(c) Engineering Hall .....	37 00
(d) Chemical Laboratory .....	32 00
(e) Natural History Hall .....	32 00
(f) Metal working shops .....	32 00
(g) Military Hall and Testing Laboratory .....	32 00
(h) Astronomical Observatory .....	15 00
(i) Closets .....	27 00
(j) Keeper of hat room in University Hall .....	21 00

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4. That three scrub women (as may be necessary) be employed at the rate of \$1.00 per day, and that \$900.00, or so much as may be needed, be appropriated for that purpose.

All help authorized in this section shall be employed as provided by the rules, and may be employed from the first of July in cases where it seems necessary.

## GARDENERS.

1. That Richard Uttenweiler be reappointed gardener at \$60.00 per month. That Fred Atkinson be reappointed assistant gardner at \$35.00 per month.

## ELECTRICIANS AND STOREKEEPERS.

1. That F. J. Foote be reappointed electrician in the electrical laboratory for ten months at \$75.00 per month.
2. That M. T. Lindsay be reappointed storekeeper in the chemical laboratory at \$40.00 per month for ten months.
3. That I. H. Allen be reappointed storekeeper in the electrical laboratory for ten months at \$40.00 per month.

## STUDENT ASSISTANTS.

I recommend that \$400.00 be appropriated for student assistants, who may be appointed from time to time by the President.

## CLERICAL ASSISTANTS.

The question of providing needed stenographic and type-writing help to the leading officers in the University, in the most economical way, is one that should be met now by adopting some plan capable of general application. Such assistance is now provided for the President, Business Manager, Registrar, Director of the State Laboratory of Natural History, Director of the Agricultural Experiment Station, and Dean of the College of Engineering. The Dean of the College of Literature and Arts, the Dean of the Woman's Department, the School of Law, the Library and Library School, and the office of the chemical survey of potable waters, may all lay reasonable claim to some help of this character. At odd times others connected with the University might be aided in this way to our common advantage. It is not practicable, however, and I do not think it is desirable, to extend such assistance to all connected with the University who may have occasion to write a letter. None of the great institutions do it and it is certainly impracticable for them or for us to undertake it. On the other hand, it is not to the advantage of the University that prominent officers should devote their energies to clerical work that can be done better and in less time by another who is very glad to do it at much less compensation.

The administrative work of the University, on the faculty side, is not running as smoothly as it should, nor as it easily might, if clerical help were provided for keeping the records and carrying out the directions of the Council of Administration and the General Faculty. Professor Kinley has heretofore rendered this service for the Council of Administration, but his other duties overtax him and he should be relieved of this one. Again, the work in the President's office has multiplied many times in recent years, and there is an infinite amount of additional work which ought to be taken up. Miss Heath, secretary to the President, is taxed beyond her strength. Of excellent attainments, she has grown into familiarity with University affairs, and in steadiness and efficiency of execution. She is worthy of larger compensation and can easily be made more profitable to the University than by keeping her so constantly at work upon the typewriter.

I have given the subject such thought as I could and have advised with the prominent officers of the University about it, and have finally reached the conclusion to make the following recommendations:

1. That the present arrangement for typewriting and clerical assistance, in the offices of the Business Manager, Registrar, Director of the State Laboratory, and Director of the Experiment Station, be not disturbed.

2. That there be established, near the President's office, a typewriting bureau which shall be under the supervision of that office, which shall perform such university work of a clerical character as the President shall approve; that Miss Ford, stenographer for the College of Engineering, be transferred to such bureau, and that another, if not two more stenographers, be employed in the same service; that the stenographers so employed shall render to the deans, and such other officers of the University as the President may approve, such services as to him may seem proper.

3. That messenger boys be provided for the offices of the President, the dean of the College of Engineering, the dean of the College of Literature and arts, and the dean of the Woman's Department jointly, and the Chemical Laboratory, at a compensation of \$3.00 per week, whose duties it shall be to take care of the offices, answer the telephone, copy letters, run errands, and attend to such other work as they may be directed to perform.

That Miss Heath be reappointed secretary to the President at a salary of \$900 per annum, that Mr. L. A. Boice be reappointed clerk in the Registrar's office at \$55.00 a month; that Mr. W. F. Marker be reappointed clerk in the office of the Business Manager at \$55.00 per month; that Miss Sue W. Ford be appointed stenographer for the typewriting bureau, at \$55.00 per month; and that \$250.00 or so much as may be necessary be appropriated for typewriters and other equipment.

6. That the salary of Miss McIntyre, in the Agricultural Experiment Station, be \$55.00 per month.

The recommendations of all the foregoing papers presented by President Draper were approved as read.

#### REPAIRS AND CHANGES IN BUILDINGS.

There will be an unusual number of changes to be made in buildings this year because of the occupancy of the Library building and because of new departments which are to open in the fall. The details have hardly yet been considered, for lack of time, but the whole subject is highly important, and it will be necessary to commence operations as soon as may be after the annual commencement. I suggest that the Committee on Buildings and Grounds, together with the President and the Business Manager, be authorized to determine what shall be done in the way of changes and repairs and to carry them out.

The Board ordered that needed changes and repairs be made as suggested.

With regard to the use of the legislative appropriations, President Draper made the following recommendations, which were approved:

#### LEGISLATIVE APPROPRIATIONS.

It is recommended that all appropriations made by the last General Assembly for specific University purposes be appropriated for such purposes and that they be expended as provided in the rules, but that the following specific directions be given as to the ones named:

1. That the appropriation for materials for shop practice be made available as follows: One-half July 1st, one-fourth December 1st, and the remaining one-fourth February 1st, for each of the two years.

2. That Professor Ira O. Baker be directed to make plans for the bridge provided for on Burrill avenue; and, with the approval of the Committee on Buildings and Grounds, to let contracts for and superintend the erection of the same.

That the appropriation for extending the engineering equipment be divided as follows:

To the College of Engineering, in general.....	\$500 00
Architecture.....	500 00
Civil engineering.....	500 00
Theoretical and applied mechanics, and municipal and sanitary engineering...	1,000 00
Physics and electrical engineering.....	3,750 00
Mechanical engineering.....	3,750 00

for each of the two years.

4. That the appropriation for completing and decorating the Library building be expended by the Committee on Buildings and Grounds.

5. That the appropriation for furnishing the Library building be expended under the direction of the President and the Business Manager.

6. That the Committee on Buildings and Grounds proceed with the erection of the Central Heating Plant; that they make provision for heating and lighting the University building, for lighting the campus, and for supplying power where needed; that Professor Breckenridge be put in immediate charge of plans and construction, and that he have the co-operation of Professor Carman so far as electric interests are involved, and of Professors McLane and Temple as to architectural matters; that the Finance Committee of the Board be directed to make arrangements for securing needed amounts in anticipation of the one-half of the appropriation which is not available until July 1, 1898, on the best terms practicable, and that the Committee on Buildings and Grounds be authorized to enter into contracts and proceed with the work as early as possible, having in mind the arrangements for money completed by the Finance Committee.

The following appropriations were made, as recommended by President Draper:

MISCELLANEOUS EXPENSES.

It is recommended that the following appropriations be made for miscellaneous expenses:

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1. Administrative offices.....	\$ 300 00
2. College of Literature and Arts .....	250 00
3. College of Agriculture and improvements at the Experiment Station Farm. 1,000 00	
4. Art and Design.....	300 00
5. Physical Training.....	500 00
6. School of Music.....	500 00
7. Preparatory School.....	250 00
8. Oratorical contests .....	200 00
9. <i>Illini</i> .....	500 00
10. <i>Illio</i> .....	100 00
11. <i>Technograph</i> .....	100 00
12. Agricultural Publication (last year, \$50.00; next year, \$50.00) .....	100 00
13. Expenses of High School Visitor.....	500 00
14. Astronomical Observatory.....	200 00
15. Botany and Horticulture.....	300 00
16. Zoölogy.....	200 00
17. Geology.....	200 00
18. Library.....	250 00
19. Dean of the Woman's Department.....	300 00
20. Steam Heating Department.....	500 00

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The publication of the essay, Banking in Illinois, written by Chas. H. Garnett, was authorized, and \$75.00, or so much thereof as was necessary was appropriated for this purpose.

It was ordered that Professor Palmer should receive for two years from September 1, 1897, \$100 a year from the water survey fund in addition to his present salary of \$2,100.

SCHOOL OF MEDICINE.

The Committee on School of Medicine made the following report:

URBANA, June 8, 1897.

*Board of Trustees of the University of Illinois.*

GENTLEMEN: Your Committee recommends the appointment by the Board of Trustees the following employes of the School of Medicine for the ensuing year at salaries named:

D. A. K. Steele, actuary without salary for 12 months.

Joseph S. Tomlinson, superintendent, \$75 a month for 12 months.

Miss E. M. Heelan, college clerk and stenographer, \$60 a month for 12 months.

Theodore Teken, curator of museum, \$36 a month for 12 months.

George Johnson, engineer, \$40 a month for 12 months.

Janitor, \$25 a month from October to May.

Janitor, \$25 a month for 12 months.

Druggist, \$30 a month for 12 months.

We also recommend that the following members of the Faculty be paid the salaries appended to their respective names:

C. A. Wesener, professor of chemistry, \$75 a month.

W. A. Evans, professor of pathology, and superintendent of Laboratories, \$50 a month.

E. G. Earle, professor of histology, \$25 a month.

A. Gehrman, professor of bacteriology, \$25 a month.

W. F. Eckley, professor and demonstrator of anatomy, \$50 a month.

It being understood that these salaries are for the entire year of 12 months. We would also recommend that Professor Pusey be paid a salary of \$500 a year as Corresponding Secretary, payment being made in monthly checks.

We also recommend that the following students be granted the following remissions in their fees, in accordance with contracts previously made with them for work done in the College, or to be done during the session of 1897-98:

Olin McCormick, General Lecture Ticket, \$105; C. B. Carr, General Lecture Ticket, \$105.

F. H. Blayney, on General Lecture Ticket, \$100, on account of assistance in chemical laboratory.

W. E. Hart, on General Lecture ticket, \$50, as house surgeon.

M. A. Reasoner \$25, on account of assistant house surgeon.

W. T. Dowdall, assistant house surgeon, \$25.

L. H. Turner, \$25 as curator of museum.

T. C. West, \$100 as librarian.

F. E. Wynekoop, \$105 on account of assistant in chemical laboratory.

We would also recommend the awarding of scholarships of the value of \$100 each to the following students, who have sustained the highest general average in their respective classes during the session of 1896-97:

#### FRESHMAN YEAR.

S. Jakubowski,

J. R. Yang,

Jas. D. Brooks.

#### SOPHOMORE YEAR.

Theodore Teken,

B. Fantus,

F. G. Harris.

#### JUNIOR YEAR.

Wm. Belitz,

Jas. M. Neff,

Wm. H. Stayner.

Respectfully submitted,

A. S. DRAPER,  
JAMES E. ARMSTRONG,  
LUCY L. FLOWLER,  
ALEXANDER McLEAN,  
S. W. SHATTUCK,

Committee on School of Medicine.

## MILITARY UNIFORMS.

Mr. Pillsbury, to whom with Professor Shattock, the matter of obtaining new bids for furnishing uniforms for the cadets of the Military Department of the University was referred (see page 73), reported that the committee had asked Capt. Brush to call for bids and that he had done so, and that the bids were ready for examination by the Board. The Board then referred this business to Messrs. Bullard, Brush, and Shattuck with power to act, and with instructions to report their action to the Board at its next meeting.

## FELLOWS.

Upon recommendation of the Faculty of the University the following persons were appointed fellows for the coming year:

- David Hobart Carnahan, in French.
- Albert Claude Hobart, in Civil Engineering.
- Edward Warren Poole, in Electrical Engineering.
- Don Sweeney, in Mechanical Engineering.
- Frederick William Schacht, in Zoölogy.
- Arthur Ernest Paul, in Chemistry.

The Board then adjourned to meet at 2 o'clock p. m.

## SESSION OF WEDNESDAY, JUNE 9, 1897.

The Board met pursuant to adjournment, the same members being present as on Tuesday.

President Draper's bill for traveling expenses from December 29, 1896, to date, amounting to \$149.09, was ordered paid upon recommendation of the Finance Committee.

On motion of Mr. Smith the Business Manager was instructed to have a Bell telephone put into the President's house.

The Secretary was instructed to answer a communication received from Capt. Wm. R. Courtney, of the Illinois National Guard, that as the South Farm, on which the University rifle range is situated is rented, and that as the tenant on the farm objects to the use of the range by others than members of the University Battalion, his request that his company may use the range can not be granted.

The recommendations of Professor Forbes, Director of State Laboratory Natural History, were presented by President Draper with his approval.

## STATE LABORATORY OF NATURAL HISTORY.

*To the Trustees of the University of Illinois.*

GENTLEMEN: I have the honor to report that the appropriation bill for the expenses of the State Laboratory of Natural History, the Biological Station, and the State Entomologist's office has passed the Legislature as introduced, containing the following items:



For the field work and the office and incidental expenses, the sum of fifteen hundred (1,500) dollars per annum.

For the improvement of the Library, the sum of fifteen hundred (1,500.00) dollars per annum.

For salaries and assistance the sum of four thousand (4,000.00) dollars per annum.

For the publication of bulletins, the sum of seven hundred and fifty (750.00) dollars per annum.

For the illustration of the biennial report of the State Entomologist, the sum of two hundred and fifty (250.00) dollars per annum.

For the expenses of the Illinois Biological Station, the sum of three thousand (3,000.00) dollars per annum.

I respectfully request that the necessary assignments may be made to make these sums available for the purposes indicated.

For the better organization of the staff of the State Laboratory of Natural History, I respectfully make the following recommendations:

1. That the Assistants of this Laboratory be classified as office assistants, laboratory assistants, and laboratory investigators.
2. That the Director of the Laboratory be empowered to engage ordinary employes; that office and laboratory assistants be appointed by the Trustees, on the nomination of the Director, for one calendar year, beginning July 1st; and that laboratory investigators be appointed without term, subject to removal by the Trustees only on recommendation of the Director of the Laboratory.
3. That the Director be empowered to suspend assistants for cause until the next meeting of the Board following upon such suspension, reporting the facts forthwith to the Executive Committee of the Board, this Committee to have power to sustain or to disapprove such suspension.
4. That all salaries be paid in twelve monthly installments, and that every assistant be entitled to a vacation of one calendar month in each year, at a time to be determined by arrangement with the Director.
5. That members of the staff be subject to detail by the Director, at any time, for service at the Biological Station or in the State Entomologist's office, where such service does not involve change in the amount or origin of their pay.
6. That laboratory assistants and investigators be authorized to give instruction in the Biological Departments of the University, under the responsible supervision of the heads of such departments, by agreement of all concerned and with the approval of the President of the University; and that such teaching assistants be classed as active members of the University Corps of Instruction, laboratory assistants to rank as assistants or instructors, as the President may determine, and investigators to rank as assistant professors; *Provided*, that no change shall be made in any case either in amount or origin of the salaries of such assistants without authorization by the Trustees. It is the purpose of this section to provide for such exchange of services between the biological departments of the University and the corresponding departments of the State Laboratory as shall be clearly to the advantage of both.

I further recommend that Mr. Charles A. Hart and Dr. Charles A. Kofoid be appointed as laboratory investigators, the former to serve as Entomologist of the State Laboratory and curator of the collections, and the latter as Zoölogist of the Laboratory and Superintendent of the Biological Station; that Miss Lydia M. Hart be continued as artist of the laboratory, and classed as a laboratory assistant; and that Miss Mary J. Snyder and Mr. Henry C. Forbes be classed as office assistants, the first to serve as secretary, and the second as business agent and librarian.

The assistant in entomology should class as a laboratory assistant, but I ask that this appointment be left to the Executive Committee, as I am not yet prepared to make a choice among several persons available for this place.

I also recommend the following scale of salaries for the ensuing year, commencing July 1, 1897: Mr. C. A. Hart, \$1,000.00; Dr. C. A. Kofoid, \$1,300.00; Miss M. J. Snyder, \$900.00; Mr. H. C. Forbes, \$1,100.00.

According to my present arrangement with Miss Hart she receives a minimum salary of \$20 a month, with pay at the rate of thirty-five cents an hour when (as is usually the case) the amount of work given her amounts at this rate to more than the above salary. I ask that this arrangement be authorized and continued.

Concerning the work of the State Laboratory for the coming year I have to report that embarrassments resulting from the financial situation have prevented the carrying out of our plans for a summer school of biology at Havana, but that the Station will open July 1st, under the new appropriations, with Dr. Kofoid in immediate charge, and with a small party of visiting investigators in attendance. I hope that full and early provision may be made for a summer school next year on substantially the same plan as that contemplated this summer. In the absence of any building or building fund, we shall probably be obliged to avail ourselves of the courtesy of the school board of Havana, which by a unanimous vote placed the village high school building at our disposal. The regular work of the Station will go on much as last year, with the addition of some indispensable items of equipment which will greatly increase the value of the so-called plankton work. Three papers, mainly the product of station investigations, are now ready for the press and will be sent to the printer without delay, and a fourth, nearly complete, will follow presently. As an illustration of the stimulating influence of the operations of the Station upon the corresponding departments of the University, I may call attention to the fact that two of the above papers are undergraduate theses by students who worked at the Station, and whose papers are thoroughly creditable contributions to a knowledge of North American aquatic zoölogy. They are, in fact, the first undergraduate theses ever published from any of the University biological courses. The Laboratory bulletins and reports already printed, embodying the finished results of our Station work, amount to three hundred pages of print and sixty pages of plates.

An important new departure in our Biological Station work will be the systematic studies of the fishes of our field. It is my intention to have ready by the next session of the Legislature a volume on the fishes of the State, to make the third of our series of zoölogical reports, and to be published in a uniform style with the two volumes of the ornithological report. This work will probably be done mainly by Professor Frank Smith and myself.

The entomological work is at present chiefly directed to the insect injuries to Indian corn, with a view to the preparation of the second part of the monograph on that subject for publication in my next report as State Entomologist. Orchard and nursery insects, including the San José scale, are also receiving special attention, the work on the latter species being especially provided for by an appropriation of \$3,000.00, made direct to the State Entomologist's office in the general appropriation for the expenses of the State government. By the terms in which this appropriation is made the State Entomologist is charged with duties additional to those for which he has been heretofore responsible, being now required to provide for the inspection of orchards and nurseries, and for special personal instruction to fruit growers any nurserymen with respect to the methods for the destruction of the San José scale.

Respectfully submitted,

S. A. FORBES, *Director.*

June 5, 1897.

The report was approved, appointments and appropriations being made as therein recommended.

## AGRICULTURAL EXPERIMENT STATION.

President Draper presented the report of the Director of the Agricultural Experiment Station, Professor Davenport, and the report was accepted for filing.

These recommendations of the report were approved, namely:

That new experiments be undertaken as follows:

1. Upon the Effects of Subsoiling.
2. The Influence of Nitragin Upon the Growth of Leguminous Plants.
3. Suitability of the Soil and Climate of Illinois for the Culture of the Sugar Beet.

That Mr. C. G. Hopkins, Chemist of the Station, be granted leave of absence for five months, dating from January, 1898, three months as vacation with pay and two months to be without pay.

And that appropriations of Experiment Station funds be made to meet estimates for the coming quarter detailed below.

## ESTIMATES—QUARTER ENDING SEPTEMBER 30, 1897.

<i>General Fund.</i>	
Salaries.....	\$1,940 00
Labor.....	948 00
Publications.....	25 00
Postage and stationery.....	25 00
Freight and express.....	25 00
Heat, light, and water.....	40 00
Chemical supplies.....	20 00
Tools implements, and machinery.....	70 00
Seeds, plants, and sundry supplies.....	100 00
Buildings and repairs.....	58 00
Feeding stuffs.....	44 00
Scientific apparatus.....	330 00
Traveling expenses.....	65 00
Contingent.....	60 00
Total.....	\$3,750 00
<i>From Farm Fund.</i>	
Labor.....	\$400 00
Seeds, plants, and sundry supplies.....	197 00
Total.....	\$597 00

## SCHOOL OF PHARMACY.

The Committee on the School of Pharmacy made the following report:

URBANA, ILL., June 9, 1897.

*To the Board of Trustees of the University of Illinois.*

Gentlemen:—Your Committee on the School of Pharmacy begs leave to report that on the 14th of April it met with Mr. J. H. Clough, owner of the building occupied by the school, and agreed with him on a rental of \$2,400.00 a year (a reduction of \$1,200.00 a year) for three years from May 1, 1897, rent to be paid monthly, but with no payment until November 1, 1897. Your committee also reports that Mr. Clough has agreed to fit up a new lecture hall and will also himself carry the insurance on the building.

April 22, 1897, the regular graduating exercises of the School of Pharmacy were held (for the list of graduates see page 97). Your Committee also states, with pleasure, that the School of Pharmacy has had a successful year, and that, from all appearances, it will be a valuable auxiliary department of the University,

Your Committee recommends that in the matter of salaries the sum of \$4,500.00 be appropriated to be distributed among the several members of the faculty of the School of Pharmacy as may be agreed upon between them and the Business Manager.

Respectfully submitted,

ALEX. MCLEAN,  
JAS. E. ARMSTRONG,  
S. W. SHATTUCK,

*Committee on the School of Pharmacy.*

Mr. McLean offered the following resolution, which was adopted:

WHEREAS, During the recent financial troubles of the University, the friends of this institution have rendered it valuable assistance for which we are very grateful, therefore be it

*Resolved*, That the hearty and sincere thanks of this Board be and are hereby tendered to the Metropolitan National bank, of Chicago, the First National bank, of Champaign, and the First National bank, of Urbana.

*Resolved*, That the Secretary of this Board forward a copy of these resolutions to the banks named.

#### TRANSFER OF ENDOWMENT FUND.

The following resolution, offered by Mr Bullard, was adopted:

WHEREAS, The Fortieth General Assembly of the State of Illinois has passed an act requiring the University of Illinois to turn over to the State officers named in the act the bonds of the endowment fund of the university, and all bonds, stocks, securities, and other property, except books and papers of account and land contracts, which the late Treasurer of the University, Charles W. Spalding, yielded to the University in final settlement of his account with the University, therefore be it

*Resolved*, That the Finance Committee take charge of this matter and that the President and Secretary of the Board be authorized and instructed to make all transfers, sign all papers and bonds, and do such other acts as may be necessary to carry out in full the purpose and intent of said act.

Mr. Morrison offered the following resolution, which was adopted:

*Resolved*, That the Committee on Buildings and Grounds be directed to secure the approval by some practical expert in heating and electrical lighting, whose standing is well known, of the plans for the heating plant, before contracts for same are let.

#### MUSIC DEPARTMENT.

The Committee on Instruction made the following report, which was adopted:

URBANA, ILL., June 9, 1897.

*To the Board of Trustees of the University of Illinois.*

Gentlemen:—Your Committee on Instruction, to which was referred the resolution regarding the School of Music, having carefully considered the matter, recommends that first-class courses in musical instruction should be arranged, to be taken in connection with other University work, by graduates or by others whose preparation shall be satisfactory to the President and heads of the music department; and that for such courses, successfully pursued and completed, diplomas and appropriate degrees should be conferred. The Committee believes that to offer such courses without extra compensation

would be unwise and detrimental to the best interests of the University, but recommends that class instruction in vocal music, to students of the University, should be continued free, as at present, and that the School of Music should be conducted on the same basis as the Schools of Law, Medicine, etc., and be as nearly self-supporting as circumstances may permit.

Respectfully submitted,

LUCY L. FLOWER,  
J. E. ARMSTRONG,  
I. S. RAYMOND,

*Committee on Instruction.*

The same Committee made further report as follows:

URBANA, June 9, 1897.

*Board of Trustees of the University of Illinois.*

Gentlemen: Your Committee on Instruction recommends that Professors Burrill, Shattuck, and Ricker, having served for twenty five years, be given a year's leave of absence, upon half salary, to be taken consecutively in such order as may be arranged between themselves and the President of the University.

Respectfully submitted,

LUCY L. FLOWER,  
J. E. ARMSTRONG,  
I. S. RAYMOND,

*Committee on Instruction.*

This report of the Committee was adopted.

#### DEGREES IN SCHOOL OF PHARMACY.

The following resolution was adopted:

*Resolved,* That the Committee on the School of Pharmacy be requested to report to the Board as to degrees and certificates to be conferred by that School, with such recommendations as they think proper in relation to the matter.

After listening to a statement by Mr. Roberts, president of the H. M. R. Construction Company, the Committee on Buildings and Grounds was authorized to waive the giving of a new bond by said company after June 12th, if in the opinion of the Committee the interests of the University would be amply protected without such bond.

On motion of Mr. Raymond \$100.00 was appropriated for repairs of barn and corn cribs at south farm.

#### BUSINESS MANAGER'S REPORT.

Professor Shattuck, Business Manager, presented the following report:

UNIVERSITY OF ILLINOIS, June 8, 1897.

*F. M. McKay, Esq., President Board of Trustees, University of Illinois:*

Sir:—I have the honor to hand you herewith the following report:

*Paper A* is a statement of the current appropriations for the time ending March 31, 1897.

*Paper B* is that of the State appropriations for the same time.

*Paper C* is that of the U. S. fund.

*Paper D* is that of the Laboratory of Natural History.

*Paper E* is that of the Agricultural Experiment Station.

*Paper F* is that of the School of Pharmacy.

*Paper G* is an estimate of receipts and expenses for the twelve months ending June 30, 1898.

*Paper H* is a list of appropriations the Board is requested to make for the three months ending September 30, 1897.

*Paper I* is a statement of receipts for the three months ending March 31, 1897.

*Paper K* is a list of general University vouchers presented for audit, being 1,201 to 1,881, inclusive.

*Paper L* is a list of Laboratory of Natural History vouchers presented for audit, being 162 to 246, inclusive.

*Paper M* is a list of Agricultural Experiment Station vouchers presented for audit, being 201 to 279, inclusive.

*Paper N* is a list of School of Pharmacy vouchers presented for audit, being 103 to 159, inclusive.

PAPER A—CURRENT APPROPRIATIONS.

<i>March 31, 1897.</i>	Appropriated.	Expended.	Balance.
Board expenses.....	\$1,246 88	\$950 18	\$296 70
Salaries for instruction and for President { Current..... { U. S. Fund..... { State.....	75,353 38	{ 8,083 98 22,000 00 45,269 40	.....
Salaries for services { Current..... { State.....	9,815 48	{ 7,815 48 2,000 00	.....
Buildings and grounds.....	1,084 90	1,024 74	60 16
Fuel and lights.....	6,955 01	5,582 46	1,372 55
Stationery and printing.....	1,543 42	1,421 39	122 03
Preparatory School.....	3,585 00	3,537 27	47 73
Repair shop.....	1,161 31	1,161 31	.....
Mechanical department.....	1,331 42	1,167 76	163 66
Departments.....	943 04	283 69	659 35
Laboratories.....	3,445 35	2,508 34	937 01
Library and apparatus.....	147 64	68 33	79 31
Incidental expenses.....	1,371 60	1,023 27	348 33
<i>Sundries.</i>			
Closed out.....	1,399 69	1,399 69	.....
Furniture and fixtures.....	496 48	380 93	115 55
Heating apparatus.....	482 65	174 34	308 31
Water supply.....	375 00	375 00	.....
Minnesota lands.....	100 00	77 28	22 72
Greenhouse.....	140 67	140 67	.....
Commencement.....	100 00	68 50	31 50
Stone posts.....	160 00	.....	160 00
Tenant farming, etc., in Illinois.....	75 00	67 35	7 65
Watchman's registers.....	100 00	100 00	.....
South farm.....	25 00	22 85	2 15
Accredited high schools.....	30 00	.....	30 00
Court expenses.....	22 40	12 50	9 90
State Fair exhibit.....	500 00	.....	500 00
Summer School.....	500 00	.....	500 00
Garvin Machine Co.....	82 46	82 46	.....
Catalogues.....	8 01	8 01	.....
	\$112,551 79	\$106,807 18	\$5,774 61

PAPER B—STATE APPROPRIATIONS.

<i>March 31, 1897.</i>	Received.	Expended	Balance.	Assigned.
<i>Salaries, etc.—</i>				
Closed out.....	\$17,951 81	\$17,951 81		
Salaries for instruction.....	108,370 35	108,370 35		
Salaries for services.....	2,000 00	2,000 00		
Heating apparatus.....	1,200 00	1,076 42	\$123 58	\$123 58
Buildings and grounds.....	3,800 00	3,061 46	738 54	738 54
Toilet rooms.....	375 00	294 22	80 78	80 78
Art and design.....	250 00	182 85	67 15	67 15
Physical training.....	1,222 00	956 38	265 62	265 62
School of Music.....	2,250 00	2,199 20	50 80	50 80
Lectures.....	1,000 00		1,000 00	1,000 00
Agriculture.....	3,750 00	3,661 40	88 60	88 60
Preparatory School.....	190 00	129 75	60 25	60 25
Advertising and catalogue.....	3,900 00	3,044 37	855 63	855 63
Oratorical contest.....	100 00	100 00		
College of Literature and Arts, books.....	200 00	166 31	33 69	33 69
Athletic fund.....	500 00	500 00		
<i>Illini</i> .....	500 00	330 00	170 00	170 00
<i>Illio</i> .....	100 00	100 00		
Accredited schools.....	500 00	310 76	189 24	189 24
<i>Technograph</i> .....	100 00		100 00	100 00
Signal bells.....	100 00	82 92	17 08	17 08
Botany (herbarium, etc.).....	150 00	1 75	148 25	148 25
Mechanical Engineering Laboratory.....	420 00	353 61	66 39	66 39
Chemical Laboratory (repairs).....	9,180 00	8,765 50	414 50	414 50
Furniture and fixtures.....	400 00	50 94	349 06	349 06
Furnishing Astronomical Observatory.....	555 00	287 83	267 17	267 17
Zoölogical department.....	95 00	6 45	88 55	88 55
Bronze tablet.....	175 00		175 00	175 00
Electric lighting.....	200 00	200 00		
Physics.....	600 00	108 47	491 53	491 53
Unassigned.....	19,865 24		19,865 24	
	\$180,000 00	\$154,293 35	\$25,706 65	\$5,841 41
<i>Apparatus and materials—</i>				
Closed out.....	\$1,700 00	\$1,700 00		
Applied chemistry.....	100 00	11 95	\$88 05	\$88 05
Chemistry.....	700 00	588 66	111 34	111 34
Psychology.....	300 00	258 66	41 34	41 34
Zoölogy.....	800 00	698 75	101 25	101 25
Physiology and hygiene.....	800 00	602 78	197 22	197 22
Botany and horticulture.....	680 00	661 02	18 98	18 98
Geology.....	400 00	323 51	71 49	71 49
Astronomy.....	500 00	388 30	111 70	111 70
Unassigned.....	20 00		20 00	
	\$6,000 00	\$5,238 63	\$761 37	\$741 37
<i>Operating Biological Experiment Station</i> .....	\$3,000 00	\$2,517 96	\$482 04	\$482 04
<i>Biological Experiment Station equipment</i> .....	\$2,500 00	\$2,500 00		
<i>Paving street, etc.</i> .....	\$9,300 00	\$9,300 00		
<i>Laboratory of Vegetable Physiolog.</i> .....	\$2,000 00	\$1,947 43	\$52 57	\$52 57
<i>Astronomical Observatory</i> .....	\$15,000 00	\$12,742 43	\$2,257 57	\$2,257 57
<i>Library Hall</i> .....	\$150,300 00	\$105,196 75	\$44,803 25	\$44,803 25
<i>Fire protection</i> .....	\$2,000 00	\$1,679 20	\$320 80	\$320 80
<i>Library</i> .....	\$6,000 00	\$5,956 95	\$43 05	\$43 05
<i>Shop practice</i> .....	\$3,000 00	\$2,798 59	\$201 41	\$201 41
<i>Chemical Laboratory</i> .....	\$5,000 00	\$4,236 59	\$763 41	\$763 41
<i>Taxes on Minnesota land</i> .....	\$3,200 00	\$3,200 00		
<i>Vaccine Laboratory</i> .....	\$3,000 00	\$1,536 94	\$1,463 06	\$1,463 06

Paper B—*State Appropriations*—Concluded.

	Received.	Expended	Balance.	Assigned.
<i>Cabinets—</i>				
Geology.....	\$400 00	\$353 90	\$46 10	\$46 10
General.....	600 00		600 00	600 00
Unassigned.....	1,000 00		1,000 00	
	\$2,000 00	\$353 90	\$1,646 10	\$616 10
<i>College of Engineering—</i>				
Machine shops.....	\$17,008 05	\$17,008 04		
Mechanical engineering.....	3,104 85	2,997 79	\$107 06	\$107 06
Electrical engineering and physics.....	3,829 85	3,456 62	373 23	373 23
Civil engineering.....	1,852 42	1,785 90	66 52	66 52
Laboratory of applied mechanics and municipal and sanitary engineering.....	1,852 42	1,424 40	428 02	428 02
Architecture.....	1,752 42	1,523 50	228 92	228 92
College of Engineering.....	600 00	370 12	229 88	229 88
	\$30,000 00	\$28,566 37	\$1,433 63	\$1,433 63
<i>Furnishing and fitting Engineering Hall—</i>				
Electric wiring.....	\$1,191 77	\$1,191 77		
Civil engineering.....	478 43	448 07	\$30 36	\$30 36
Architecture.....	770 88	631 03	139 35	139 35
Municipal and sanitary engineering.....	401 30	375 92	25 38	25 38
Mechanical department.....	563 78	421 13	142 65	142 65
Electrical engineering and physics.....	1,193 39	1,007 06	186 33	186 33
College, library, parlor, etc.....	400 95	272 96	127 99	127 99
	\$5,000 00	\$4,347 94	\$652 06	\$652 06

PAPER C—UNITED STATES FUND.

<i>March 31, 1897—Year ending June 30, 1897.</i>	Received.	Expended.	Balance.	Assigned.
Salaries for instruction.....	\$22,000 00	\$22,000 00		

PAPER D—LABORATORY OF NATURAL HISTORY.

<i>March 31, 1897.</i>	Received.	Expended.	Balance.	Assigned.
General balance July 1, 1897.....	\$246 73		\$246 73	\$246 73
Salaries.....	3,650 00	\$2,571 15	1,078 85	1,078 85
Field, office, etc.....	1,500 00	1,286 58	213 42	213 42
Library.....	1,000 00	526 02	473 98	473 98
Bulletins.....	500 00	495 77	4 23	4 23
Report of Entomologist.....	250 00	67 00	183 00	183 00
Contagious diseases of insects.....	1,500 00	721 17	778 83	778 83
Biological Experiment Station.....	1,500 00	1,497 28	2 72	2 72
	\$10,146 73	\$7,164 97	\$2,981 76	\$2,981 76



## PAPER E—AGRICULTURAL EXPERIMENT STATION.

<i>March 31, 1897</i>	Appropriated.	Expended.	Balance.
<i>General Fund.</i>			
Salaries.....	\$5,748 13	\$5,748 13	.....
Labor.....	1,925 20	1,909 31	915 89
Publications.....	752 25	672 59	79 66
Postage and stationery.....	45 60	45 60	.....
Freight and express.....	67 20	67 20	.....
Heat, light, and water.....	60 00	.....	60 00
Chemical supplies.....	61 17	61 17	.....
Seeds, plants, and sundries.....	438 87	337 92	100 95
Feeding stuffs.....	270 58	270 58	.....
Library.....	304 18	304 18	.....
Tools, implements, and machinery.....	247 69	187 56	60 13
Furniture and fixtures.....	141 28	140 15	1 15
Scientific apparatus.....	584 49	404 74	179 75
Live stock.....	121 75	121 75	.....
Traveling expenses.....	145 69	140 54	5 15
Contingent expenses.....	61 38	61 38	.....
Buildings and repairs.....	274 50	250 72	23 78
	<u>\$11,249 96</u>	<u>\$10,723 50</u>	<u>\$526 46</u>
<i>Farm Fund.....</i>	<u>\$2,278 00</u>	<u>\$2,011 17</u>	<u>\$266 83</u>

## PAPER F—SCHOOL OF PHARMACY.

<i>March 31, 1897.</i>	Appropriated.	Expended.	Balance.
Salaries for instruction.....	\$4,500 00	\$3,856 98	\$643 02
Salaries for services.....	1,125 00	1,125 00	.....
Buildings and grounds.....	2,940 00	2,859 16	80 84
Fuel and light.....	703 54	372 66	330 88
Stationery and printing.....	200 00	183 81	16 10
Furniture and fixtures.....	200 00	40 76	159 24
Laboratories.....	1,160 00	1,160 00	.....
Incidentals.....	420 23	279 33	140 90
Sundries.....	1,753 52	1,695 54	57 98
Advertising.....	1,096 46	1,096 46	.....
Museum.....	25 00	2 25	22 75
	<u>\$14,123 75</u>	<u>\$12,671 95</u>	<u>\$1,451 80</u>

## PAPER I—RECEIPTS BY THE BUSINESS MANAGER.

<i>Three months ending March 31, 1897.</i>		
University fees.....	\$5,006 25	
Preparatory School fees.....	1,551 45	
Music fees.....	431 50	
Chemical laboratory.....	274 39	
Mineralogical laboratory.....	34 66	
Geological laboratory.....	12 21	
Botanical laboratory.....	31 10	
Physiological laboratory.....	16 00	
Zoölogical laboratory.....	38 70	
Physical laboratory.....	12 50	
Vaccine laboratory.....	4 00	
Preparatory School.....	30 95	
Laboratory of applied mechanics.....	20 00	
Water survey.....	2 85	
General engineering drawing.....	5 75	
Repair shop.....	6 15	
Greenhouse.....	37 62	
Fuel and lights.....	334 88	
Buildings and grounds.....	20 00	
Mechanical department.....	411 27	
South farm.....	310 11	
Agricultural Experiment Station.....	743 37	
School of Pharmacy.....	3,465 45	
		\$12,801 16
Paid to C. W. Spalding, Treasurer.....		\$10,289 12
Balance, March 31, 1897.....		2,512 04
		\$12,801 16

The Board is requested to appropriate for immediate use for Military Scholarships \$337.50; for Band Scholarships \$247.50.

After consultation with President Draper and others, I recommend the following changes in assignment of salaries. That Mr. Pillsbury's salary be charged, general, \$1,950.00; Agricultural Experiment Station, \$300.00.

That Professor McIntosh's salary be charged, general, \$600.00; Vaccine Laboratory, \$900.00; Agricultural Experiment Station, \$300.00.

That \$600.00 of Professor Burrill's salary be charged to Agricultural Experiment Station, and that \$200.00 of Professor Shattuck's salary as Business Manager, be charged to Agricultural Experiment Station. These changes to take effect July 1, 1897.

The Board is requested to continue in force all present appropriations till September 30, 1897.

*Paper O* is a receipt for \$106,150.00 endowment bonds. The Board is requested to take the necessary action to cash these bonds under Senate bill 451.

Respectfully submitted,

S. W. SHATTUCK,  
Business Manager.

The appropriations of \$347.50 for military scholarships and \$247.50 for band scholarship were made as recommended by the Business Manager.

The adjustment of salaries recommended by the Business Manager was also approved to take effect July 1, 1897.

It was ordered that the Treasurer's report as to bonds be received for filing and printed in the records of the Board.

## BONDS RECEIVED.

CHICAGO, ILL., May 28, 1897.

This certifies that the undersigned, Elbridge G. Keith, as Treasurer of the University of Illinois, has received from John A. Cook, Clerk of the Circuit Court of Cook county, Ill., the bonds hereinafter mentioned, which have been delivered to the said Treasurer pursuant to an order of court entered on this day in the case of Charles E. Churchill against the Globe Savings Bank, et al., pending in said court.

The said bonds are as follows:

Union School District bond No. 1, District No. 2, Town 22, Range 7 and 8 East of the Third Principal Meridian, for \$3,000.00, payable to the Board of Trustees of the University of Illinois or order.

Also twenty-nine bonds of Pike county, Illinois, each for \$1,000.00 payable to bearer, Nos. 151 to 179, inclusive.

Also three bonds of District No. 6, Town 19, Champaign county, Illinois, each for \$2,000.00 numbered 1, 2, and 3, payable to the Board of Trustees of the University of Illinois.

Also one bond District No. 10, Town 17, Range 14 for \$1,000.00, numbered 1, payable to the Board of Trustees of the University of Illinois or order.

Also four bonds of School District No. 11, Champaign county, Illinois, Town 19, Range 10 East, numbered 3, 4, 5 and 6, number 6 being for \$650.00 and the remainder for \$1,000.00 each, payable to the Board of Trustees of the University of Illinois.

Also fifty bonds from Champaign county, Illinois, each for \$1,000.00, numbered 51 to 100, inclusive, payable to the Illinois Industrial University or order.

Also twelve bonds, numbered 29 to 40, inclusive, each for \$500.00 of District No. 1, Town No. 19, Range 8, Champaign county, Illinois, payable to the Board of Trustees of the University of Illinois.

Also one bond of District No. 2, Township 18, Range 14, county of Champaign, Illinois, for \$7,500.00, numbered 1, payable to the Board of Trustees of the University of Illinois or order.

E. G. KEITH, Treasurer.

Advertising for bids for coal for the next year's supply, and awarding contracts for same on satisfactory bid were referred to the Finance Committee and the Business Manager with power, and with instructions to report to the next meeting of the Board.

Warrants issued against Charles W. Spalding, Treasurer, and paid by S. W. Shattuck, Business Manager, were submitted by the Business Manager and referred to the Finance Committee.

All present appropriations were continued in force to September 30, 1897, and the following appropriations were made, as recommended by the Business Manager.

## APPROPRIATIONS.

Board expenses.....	\$ 500 00	
Salaries for instruction and President .....	30,000 00	
Salaries for services.....	4,000 00	
Buildings and grounds.....	2,000 00	
Fuel, lights, and electric power.....	3,000 00	
Stationery, printing, etc.....	1,000 00	
Advertising and postage.....	2,000 00	
Repair shop.....	600 00	
Mechanical department.....	500 00	
Departments.....	300 00	
Laboratories.....	2,000 00	
Library and apparatus.....	50 00	
Incidentals.....	800 00	
Furniture and fixtures.....	500 00	
Heating apparatus.....	500 00	
Water supply.....	125 00	
		\$47,875 00
School of Pharmacy.....	1,500 00	
School of Medicine.....	4,000 00	
Agricultural Experiment Station .....	4,347 00	
Laboratory of Natural History.....	3,000 00	
Water survey of State.....	750 00	13,597 00
		\$61,472 00

The Business Manager's report was referred to the Finance Committee.

## GREENHOUSE.

The matter of repairing the greenhouse being brought up for consideration, the whole subject was referred to the President with power to act, meaning thereby to authorize the building of a new greenhouse on such location as might be found desirable.

The following resolution was adopted:

## REMOVING TREES.

*Resolved*, That President Draper and Dr. Burrill shall constitute a committee to designate for removal from the campus such trees as in their judgment should be removed, and further to have the remaining trees properly pruned and trimmed.

There was appropriated the sum of \$50.00 for experiments with regard to lockjaw, said experiments to be conducted by Dr. McIntosh, who is directed to advise with Dr. Burrill.

The Secretary submitted his statement of student's fees, etc., for the quarter ending March 31, 1897, and also a statement of interest receipts from the endowment fund. These papers having been referred to the Finance Committee, the Committee reported informally that they had examined the same and found them correct.

The Board adjourned to meet at 7:30 p. m.

## EVENING SESSION, JUNE 9, 1897.

The same members were present as in the afternoon, when the Board met pursuant to adjournment, with the exception of Messrs. McLean and Smith.

## HEATING AND LIGHTING PLANT.

The Committee on Buildings and Grounds was instructed to proceed forthwith to make plans and contract for the construction of the heating and lighting plant, keeping within the amount of the appropriation, \$80,000.00.

## DECORATION OF LIBRARY BUILDING.

The question of the adoption of plans for the interior decoration of the new library building being under consideration, it was ordered that all plans submitted by artists be rejected and that the entire matter of decorating be referred to the Committee on Buildings and Grounds and the architects with power to act; and that they be authorized to expend not to exceed the sum of \$3,500.00 for such decoration; and said sum was appropriated for that purpose.

The Board adjourned to meet at the call of the President.

W. L. PILLSRURY,  
*Secretary.*

F. M. MCKAY,  
*President.*

## MEETING OF JUNE 29, 1897.

The following call for a special meeting of the Board of Trustees of the University of Illinois was issued June 23, 1897:

"Upon the call of the President, Mr. F. M. McKay, there will be a special meeting of the Board of Trustees of the University of Illinois at 9:00 o'clock a. m.; Tuesday, June 29, 1897, at the office of President Draper, in Urbana, Illinois, to consider financial and legal matters pertaining to the defalcation of the late Treasurer, and such other business as may be presented to the Board."

There were present at the meeting held pursuant to the above call Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Raymond, Smith and Mrs. Flower; absent, Governor Tanner and Messrs. Pearce and Inglis and Mrs. Carriel.

## WOMEN ADMITTED TO THE SCHOOL OF MEDICINE.

Upon motion of Mrs. Flower, it was voted that women be admitted to the School of Medicine of the University of Illinois at the beginning of the fall term in 1898, and that notice of this be given in the Announcement of the School of Medicine for this year.

Upon the recommendation of President Draper, it was voted, on motion of Mr. Smith, to appoint George T. Kemp, Ph.D., Professor of Physiology in the University with a salary of \$2,000 a year.

The appointment of an instructor in Psychology was referred to President Draper, with power to act.

Upon the recommendation of President Draper, Miss Jessie Younge Fox was appointed an assistant piano teacher for the ten months beginning September 1, 1897, with a salary of \$30 a month, and fifty per cent of the fees received in excess of \$300 for instruction given by her; and it was also voted that the fees for Miss Fox's students should be as follows:

	First Term.	Second Term.	Third Term.
<i>Matriculated students.</i>			
Two lessons a week .....	\$12 00	\$9 00	\$9 00
One lesson a week .....	7 00	5 00	5 00
<i>Non-matriculated students.</i>			
Two lessons a week .....	\$15 00	\$12 00	\$12 00
One lesson a week .....	8 00	7 00	7 00

On motion of Mr. Bullard, it was voted that the next regular meeting of the Board be held on Tuesday, September 21, 1897:

President Draper submitted the following communication from Professor Davenport:

MORGAN HORSES.

URBANA, Illinois, June 28, 1897.

*A. S. Draper, LL.D., President University of Illinois,*

DEAR SIR: We are obliged to keep a number of horses for their labor, and I raise the question whether they should not be made to do the institution credit rather than not contribute at all to the value and the influence of our agricultural surroundings.

We breed at our colleges of agriculture not only cattle and sheep, but hogs and often chickens of the best strains; but no college has yet shown enterprise enough to breed the horse, which is the noblest of them all. The reason commonly given for neglecting the horse is the expense involved. I am satisfied that this is over estimated; and, while no stock breeding can be advocated on the ground of profit to the institution, still there is an income from such enterprise and the net expenditure need not be large. This is particularly true when we consider that horses of some kind must be kept for labor and that from such as we now have there is no income. If our horses were good enough to produce valuable offspring we could well afford to breed them, in which case our equine interests would mean something, and the animals themselves would stand as the expression of some idea as to type and purpose. In this I have always believed, and have felt strongly that some institution would yet win credit by horse breeding.

This is a matter that I had not intended to mention until some of our more pressing interests were firmly established, but I learned by accident not many days since that the Ohio University is contemplating the same move. I regard that institution, with its progressive ideas and with its agricultural interests in the hands of that indefatigable worker Professor Hunt, as our greatest competitor for honors along agricultural lines, and am frank in saying that these are my reasons for bringing forward this question at this time.

The greatest call today is for horses of high intelligence, good action, great endurance, and extreme longevity, for the gentleman driver and for the light delivery. That the call is great, witness the prices paid for matched spans of roadsters and the fact that such a concern as Marshall Field & Co. keeps no less than 175 of the best carriage horses that can be found for light delivery. No one is producing these horses. Our trotting and running horses are not drivers, and we are getting farther and farther away from what is wanted. Neither are their grades valuable; for as individuals they possess neither sense nor longevity, and it is next to impossible to match them.

The Morgan horse has all the qualities that are needed. He is essentially an American horse; and, besides, we in northern Illinois possess the bulk of the Morgan blood of the world. He is now essentially an Illinois horse. Moreover the Morgan has always been bred on his merits and though he has never been in gamblers' or speculators' hands to bring fabulous prices, yet it is all the better for the strain, and we have to-day, preserved through all the vicissitudes of 100 years, the essential qualities of old Justin Morgan, the most wonderfully prepotent horse that the world has ever known.

In order to lay the facts before you, I have visited Mr. A. F. Moore, of Polo, who has the largest stud of Morgans in the world. He is getting on in years and is interested in the perpetuation of the Morgan blood. In order to get prices, I told him what I would like to do. He will sell us Morgan mares of the best breeding, matched, and young, at \$250.00 a span. He quoted his beautiful seven year of stallion, Colonel, at \$350.00, and a choice stallion colt at \$100.00.

These quotations are much below his usual prices, but they are made to us because he desires to see the enterprise go forward. It would not take much money to start us. If we could buy one or two spans of mares and a

stallion it would give the start. Then if we were allowed to close out our present stock at the first good opportunity, the proceeds would be sufficient to effect the entire change. This would not only make our horses mean something, but would put us clearly in advance of any institution of the country in the great business of breeding. I would breed these animals and sell the offspring for drivers, and in the meantime I would take strong ground as to the production of high class carriage horses.

Is not the project feasible and within our means?

Very respectfully submitted,

EUGENE DANENPORT,  
Dean College of Agriculture.

On motion of Mr. Smith \$500.00 was appropriated for the purchase of horses.

The following report with regard to uniforms was filed for record:

#### CADET UNIFORMS.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your committee, appointed June 8, 1897, to examine the bids received for furnishing cadet uniforms to students of the University requiring the same, begs leave to report that, after carefully examining samples submitted by Ottenheimer & Co., and Gulick & Co., of Champaign, Illinois, and considering the prices given by these firms, it has awarded the contract to the firm of Ottenheimer & Co.

The uniforms are to conform to the specifications adopted at your meeting of March 13, 1894.

The uniform consisting of coat, trowsers, cap, and gloves, as described for privates, is to be furnished students at fifteen dollars.

For officers, consisting of coat with shoulder straps of gold lace according to rank, trowsers, cap, and gloves, at eighteen dollars and fifty cents.

For band musicians, consisting of coat, trowsers, cap, and gloves, at sixteen dollars.

Each article of the uniform must strictly conform to the specifications as approved by the Board of Trustees. The firm of Ottenheimer & Co. is to file with the Business Manager a bond in the sum of two thousand dollars for the faithful performance of their part of the contract.

The committee also requires the firm receiving the contract to deposit with the Business Manager samples of all cloth to be used in the manufacture of cadet uniforms.

The committee has made the following changes in the officers coat, viz.: that the five double rows of braid on each side of breast with crow's feet at outer ends, the braid trimming consisting of an Austrian knot, on each sleeve, and the braid trimming on each back seam be omitted, and that the following be added, cross rifles or cross cannon, as may be required by the cadet officer, and that the monogram U. of I. be embroidered in gold lace on coat collar one and one-half inches from the edge and one-eighth inch from the top of the collar, making the distance between monograms three inches in the clear. Height of monogram three-quarters of an inch and proportionate width. Cross rifles or cross cannon same height and width.

S. A. BULLARD,  
DANIEL H. BRUSH, Capt. 17th Inf.,  
S. W. SHATTUCK,

Committee.



SCHOOL OF PHARMACY.

The following gentlemen were appointed members of the Advisory Board of the School of Pharmacy:

- H. H. Rogers, of Kankakee, term of office to expire in 1898.
- T. C. Loehr, of Carlinville, term of office to expire in 1899.
- Henry Swannell, of Champaign, term of office to expire in 1900.
- Wm. Sempill, of Chicago, term of office to expire in 1901.
- A. E. Ebert, of Chicago, term of office to expire in 1902.

Mr. Armstrong presented the following resolution from the Committee on the School of Pharmacy, and it was adopted.

*Resolved*, That it is the desire of the Board of Trustees of the University of Illinois, that the degree of Pharmaceutical Chemist should not be given hereafter upon the present requirements, and be it further

*Resolved*, That the President of the University and the Faculty of the School of Pharmacy be directed to raise the standard for graduation as rapidly as possible to that of the best Schools of Pharmacy of the United States, and that additional instructors be employed, if additional instruction is needed to carry out this action.

Professor Forbes's bill of expenses incurred on his trip to Baltimore, amounting to \$57.80, was ordered paid.

The Executive Committee made the following report:

URBANA, ILLINOIS, June, 18, 1897.

To the Board of Trustees of the University of Illinois.

GENTLEMEN: Your Executive Committee begs leave to report that at a meeting held this day in the President's office, Urbana, Ill., it appropriated \$1,000.00 towards repairs on Natural History Hall.

Respectfully submitted,

S. A. BULLARD,

T. J. SMITH,

*Executive Committee.*

This action of the Executive Committee was confirmed.

Upon recommendation of Professor Shattuck, Business Manager, the following appropriations were made:

For repairs on Natural History Hall.....	\$2,000 00
For moving to Library Hall.....	500 00
For changes in University Hall.....	1,000 00
For incidental expenses.....	500 00

President Draper stated that it was very desirable to put in 100 lockers in University Hall for the use of young women, and 200 for use of young men. For this purpose \$600.00 was appropriated.

The following resolution was adopted on motion of Mr. Morrison:

*Resolved*, That the thanks of the Board of Trustees of the University of Illinois be tendered to Professors Rieker and White, architects of the new library building, which demonstrates in the strongest manner possible the appreciation of the commonwealth which gave us the money to build it, the genius of the architects who planned and superintended its construction and the strength and ability which controls and directs the Department of Architecture in this University.

And further, that a copy of this resolution be handed to Governor Tanner, and also to each of the professors, Rieker and White.

On motion of Mr. Morrison, it was ordered that the paper<sup>r</sup> read by Professor J. M. White at the dedication of Library Hall, should be printed in the minutes of the Board.

ADDRESS DELIVERED ON BEHALF OF THE ARCHITECTS AT THE DEDICATION OF THE LIBRARY BUILDING.

By James M. White.

One year ago today the first sod was turned for the building we are now about to dedicate.

Words appropriate to the occasion were then spoken by representatives of the Trustees, the University, and the Alumni, and each and all predicted for our Alma Mater a leap forward when the gift of our great commonwealth should be transmuted into stone.

Though a brief space of time will yet be necessary for the completion of our building, in essentials it is completed and ready for your inspection.

My place on this program is to be the guide-book of this interested audience, but I shall be no more statistical than the occasion demands.

The extreme dimensions of the building are 113 by 167 feet and the height of the tower is 132 feet.

The appropriation for the building by the 39th General Assembly was \$150,000.00. The present legislature has made an additional appropriation of \$10,000.00 for finishing, decorating, and furnishing. The cost of construction will be within one hundred dollars of the original appropriation. The style is Modern Romanesque and is an adaptation of that which was employed for ecclesiastical architecture over much of Europe during the middle ages. The walls are built of a very hard pink sandstone from Minnesota, which we believe to be as solid and enduring as any stone, granite only, excepted. The foundations under the tower are of steel imbedded in concrete; elsewhere they are of huge blocks of stone. The roof is of clay tiles, which neither heat, cold, nor moisture can destroy; and, in addition to their great utility, their color and form add much to the beauty of the whole.

The entire building is fire-proof; by which I mean that the structural parts are so protected that the burning of all the inflammable material which may have accumulated therein will not endanger its stability. Of course, it may damage its interior, which has some wood floors and finish.

A monolithic slab of concrete extends over the entire area of each floor. The partitions are of solid masonry, or of plaster on metal lath, while the studding is of steel, so that it is impossible for fire to spread from floor to floor or from room to room.

The books will be stored in steel stacks twenty-one feet high which are divided into three stories of seven feet each. The shelves already provided will accommodate 90,000 volumes, but it will be possible in the future to extend them through two more stories and so make a total capacity of 150,000 volumes.

Though the main purpose of the building is for library uses, those favoring the appropriation urged that space be provided for the museums of the University, which are too valuable to be entrusted to a non-fireproof building. The two large rooms in the wings of the ground floor will therefore be devoted to this purpose. In the south room on the second floor the art collection will find a home until the space is required for an extension of the book stacks.

A building of such permanence as this must be planned to meet the demands of the years to come; the room provided for that future development will for the present be used for the administrative offices of the University.

There are two entrances to the building but the principal one is on the north front through a massive archway which is enriched with carved effects. This leads into an entrance hall with tunnel vaulted ceiling, marble arched walls, and a marble mosaic floor. At the top of a short flight of marble stairs, two other flights of electro-bronzed iron and marble sweep upwards on the right and left to the second story.

Between them is the entrance to the delivery room, or rotunda, as we have termed it. This is the central feature of the building and at a time not distant we hope its walls will be decorated in a style of art befitting its position. It extends through the first and second stories and is walled by arcades on both floors and roofed by a domed opalescent glass ceiling of great beauty. Opening from this chamber are the main reading rooms, which have been kept free from columns by hanging the second floor to the roof trusses.

In addition to the administrative offices on the second floor the seminars are there located, to which reference books may readily be transferred.

While convenience has been closely studied in planning the building no less attention has been paid to the heating and ventilation, on which comfort and health depend. The system adopted is the one generally known as the Plenum or Fan System. An eight-foot fan, centrally located on the ground floor, continuously impels a quantity of air sufficient to provide adequate ventilation to all the occupants of the building. The temperature of this air is automatically regulated so as to preserve a constant temperature in the rooms.

Among the many who will examine the buildings to day are, doubtless, mechanics capable to judge the workmanship. I hope they will examine it critically, for it will bear it.

We, who have watched the building, from day to day, from beginning to end, take pleasure in assuring our friends that it is thoroughly built, that it is just as solid and substantial as it looks, and that the State has received a full equivalent for every dollar put into it.

URBANA, June 8, 1897.

On motion of Mr. Armstrong, it was voted that a resolution concerning the action of the legislature in assuming on behalf the State the liability imposed upon it through the stealing of the endowment fund by Charles W. Spalding, was adopted.

*Resolved*, That the board communicates an expression of the sincere gratitude of its members and of all friends of the University to Governor Tanner and to the Senate and Representatives of the 40th General Assembly for the admirable course taken by the State in relation to the misappropriation of more than \$450,000 of University moneys by the former treasurer of the Board. Special credit is due to the members of the Senate Investigating Committee for the patience and thoroughness with which they performed their duty, and particularly for the wise and courageous provisions of the bill which they proposed for the relief of the University, and which has become a law.

The act of the Legislature making appropriations sufficient to repair all losses, charging the State with liability for the endowment and providing for the regular and continuous payments of interest thereon, and relieving the Board from the care of the numerous actions and proceedings at law resulting from the defalcation may fairly be taken as indicating a strong purpose on the part of the people of the State to make the best possible provision for higher learning, and to adopt the State University more closely and completely as their own.

The outcome of the whole unhappy affair reflects the greatest credit upon the State and secures to those who have contributed thereto the warmest thanks of all interested in higher education. Beyond that, it inspires the friends of the University, and particularly all charged with responsibility for its management, to leave nothing undone that they can do to build up a great

State University, which in the breadth and thoroughness of its work shall be second to none in the country and in every way worthy of the great State which is behind it and for which it seems destined to do so much.

URBANA, ILLINOIS, June 26, 1897.

The Secretary was directed to send a copy of the resolution to each member of the 40th General Assembly.

The bill of Mann, Hayes & Miller for legal services, amounting to \$835.00, was ordered paid on the following vote: Ayes—Messrs. Armstrong, Raymond, Bullard, Smith, and McKay. Noes—Morrison and Mrs. Flower.

The finance committee filed the following report:

URBANA, ILLINOIS, June 29, 1897.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your Committee on Finance begs leave to report that it has examined the vouchers submitted by the Business Manager on which University warrants Nos. 1,201 to 1,881, inclusive; Agricultural Experiment Station warrants Nos. 201 to 279, inclusive; Laboratory of Natural History warrants Nos. 162 to 246, inclusive; and School of Pharmacy warrants Nos. 103 to 159, inclusive, have been issued, and has found the same correct and duly receipted.

Respectfully submitted,

THOMAS J. SMITH,  
ALEX. MCLEAN,  
N. B. MORRISON,

*Finance Committee.*

The board adjourned.

W. L. PILLSBURY,  
*Secretary.*

F. M. MCKAY,  
*President.*

*Financial Statement of the University of Illinois for the twelve months ending June 30, 1898.*

RECEIPTS, JULY 1, 1897—JUNE 30, 1898.		
Balance.....		\$51,640 70
Interest on endowment and land contracts.....	\$14,366 95	
Fees from students.....	26,630 95	
Departments and laboratories.....	5,162 55	
Miscellaneous.....	5,494 68	
State appropriations.....	199,000 00	
State appropriations, Laboratory Natural History.....	11,000 00	
U. S. Government.....	23,000 70	
U. S. Agricultural Experiment Station.....	18,419 92	
School of Pharmacy.....	10,516 94	
School of Medicine.....	41,390 25	354,982 24
		\$406,622 94
EXPENDITURES, JULY 1, 1897—JUNE 30, 1898.		
Salaries for instruction.....	\$114,709 19	
Salaries for services.....	19,699 69	
Departments and laboratories.....	6,360 31	
Miscellaneous.....	34,384 10	
State appropriation other than for salaries.....	143,221 01	
Laboratory of Natural History.....	10,864 57	
Agricultural Experiment Station.....	18,140 59	
School of Pharmacy.....	13,493 64	
School of Medicine.....	36,609 15	397,482 25
Balance.....		\$9,140 69
		\$406,622 94

## WARRANTS FOR YEAR ENDING AUGUST 31, 1897.

## GENERAL UNIVERSITY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1896.			
1	July 15	The H. M. R. Construction Co.	On contract library building.....	\$3,106 00
2	"	Richard P. Morgan.....	Expenses.....	36 86
3	"	G. P. Clinton.....	Salary, June, 1896.....	83 33
4	"	F. L. Bills.....	Postage.....	76 00
5	"	Chicago Orchestra.....	Balance on contract.....	118 51
6	"	Henry E. Alvord.....	Bust of Senator Morrill.....	45 00
7	"	Union Manufacturing Co.....	Water, July 1-October 1, 1896.....	125 00
8	"	J. D. Phillips.....	Lettering H. C cuts.....	12 60
9	"	Gustav E. Stechert.....	Books.....	126 53
10	"	Earl Barnes.....	Subscription.....	1 00
11	"	Champaign Co. Printing Co.....	Printing, etc.....	21 25
12	"	Thos. Naughton.....	Photographs.....	10 75
13	"	J. Hamilton & Son.....	Lumber.....	33 42
14	"	Bevis & Co.....	Windows, etc.....	9 60
15	"	Champaign Co. Herald.....	Printing, etc.....	106 00
16	"	The Engineering Magazine.....	Advertising.....	22 50
17	"	Richard Kny & Co.....	Bell jars, etc.....	7 00
18	"	Fairbanks Morse & Co.....	Scales.....	102 40
19	"	The Inland Publishing Co.....	Subscription.....	8 75
20	"	The Gazette.....	Printing.....	25 99
21	"	W. N. Gartside.....	Brass castings.....	2 36
22	"	Champaign Supply Co.....	Engine fittings.....	8 32
23	"	Chas. A. Strelinger & Co.....	Copper tubing, etc.....	7 88
24	"	W. G. Stocker.....	Labor on launch.....	51 64
25	"	C. J. Root.....	On account engine.....	50 00
26	"	C. & U. Phoenix Telephone Co.....	Services to September 15, 1896.....	45 00
27	"	Western Union Telegraph.....	Telegrams.....	5 91
28	"	E. Henry.....	Janitor supplies, etc.....	25 31
29	"	D. H. Lloyd & Son.....	Mounting paper, etc.....	18 45
30	"	Queen & Co.....	Repairing apparatus.....	10 00
31	"	Mittendorf and Kiler.....	Picture frames, etc.....	20 30
32	"	John B. Bennett.....	Repairs on piers.....	3 20
33	"	J. C. Vaughan.....	Grass and flower seeds.....	16 60
34	"	Hubbard & Sons.....	Plumbing, etc.....	26 11
35	"	Wm. Price.....	Painting, etc.....	41 35
36	"	A. P. Cunningham & Son.....	Stationery.....	1 90
37	"	Henry Trevett.....	Hardware.....	35 30
38	"	C. C. C. & St. L. R'y Co.....	Freightage.....	33 72
39	"	Richards & Co.....	Chemical supplies.....	36 09
40	"	American Express Co.....	Expressage.....	57 35
41	"	Twin City Ice & Cold St'ge Co.....	Ice.....	3 00
42	"	Pacific Express Co.....	Expressage.....	27 22
43	"	I. C. R. R. Co.....	Freightage.....	19 24
44	"	H. Swannell.....	Toilet paper, etc.....	4 30
45	"	Robinson & Burr.....	Tape splices.....	3 50
46	"	Knowlton & Bennett.....	Field book shellac, etc.....	1 55
47	"	Champaign Supply Co.....	Pipe fittings, etc.....	60 36
48	"	C. & U. Elect. St. R'y Co.....	Gas, June 23, 1896; power, July 1, 1896.....	528 14
49	"	Brickbuilder Pub. Co.....	Subscription.....	3 75
50	"	Ricker & White.....	Architect's commission.....	77 65
51	"	Electric Appliance Co.....	Wire.....	31 80
52	"	Brown & Sharpe Mfg. Co.....	Surface plates.....	5 09
53	"	General Electric Co.....	Cable binding posts, etc.....	6 47
54	"	Bevis & Co.....	Balance on contract.....	50 00
55	"	Medart Patent Pulley Co.....	Castings.....	1 75
56	"	O. T. Wills.....	Military scholarship.....	15 00

Warrants—Continued.

No.	Date	To whom.	For what.	Amount.
57	1896.			
57	July 15	Western Banknote and Eng. Co	Warrant books.....	\$15 00
58	"	E. W. Blatchford & Co.....	Block tin.....	2 95
59	"	A. C. McClurg & Co.....	Books, etc.....	5 06
60	"	C. A. Besore.....	Lumber.....	17 39
61	"	Central Union Telephone Co..	Services, July 1 to September 30, 1896	8 00
62	"	Sheldon Brick Co.....	Brick.....	3 30
63	"	Union Manufacturing Co.....	Tap for athletic park.....	4 00
64	"	T. R. Leal.....	Grading, etc.....	51 87
65	"	Ira O. Baker.....	Expenses.....	3 17
66	"	Robinson & Burr.....	Pipe and fittings.....	3 89
67	"	Library Bureau.....	Card index.....	66 00
68	"	J. W. Butler Paper Co.....	Photo mounting boards.....	49 25
69	"	Henry B. Newhall & Co.....	Hay carrier.....	10 00
70	"	Gustav E. Stechert.....	Books.....	77 65
71	"	S. W. Shattuck, Business M'g'r	Expenses.....	84 26
72	"	"	Freight and expressage.....	46 36
73	"	"	Sundry items.....	26 62
74	"	"	Pay-roll of men, June, 1896.....	479 69
75	"	"	students, June, 1896.....	92 26
76	July 31	A. S. Draper.....	Salary, July, 1896.....	583 33
77	"	T. J. Burrill.....	"	225 00
78	"	S. W. Shattuck.....	"	166 66
79	"	Edward Snyder.....	"	166 66
80	"	N. C. Ricker.....	"	191 66
81	"	Ira O. Baker.....	"	183 33
82	"	S. A. Forbes.....	"	83 33
83	"	C. W. Rolfe.....	"	175 00
84	"	D. McIntosh.....	"	150 00
85	"	A. N. Talbot.....	"	175 00
86	"	A. W. Palmer.....	"	175 00
87	"	F. F. Frederick.....	"	158 33
88	"	S. W. Parr.....	"	175 00
89	"	H. J. Barton.....	"	166 66
90	"	C. M. Moss.....	"	175 00
91	"	D. K. Dodge.....	"	166 66
92	"	L. P. Breckenridge.....	"	166 66
93	"	David Kinlev.....	"	187 50
94	"	Eugene Davenport.....	"	87 50
95	"	Arnold Thompkins.....	"	150 00
96	"	E. J. Townsend.....	"	137 50
97	"	H. E. Summers.....	"	137 50
98	"	E. B. Greene.....	"	133 33
99	"	Katharine Merrill.....	"	108 33
100	"	W. O. Krohn.....	"	150 00
101	"	James M. White.....	"	125 00
102	"	W. H. Van Deryvoort.....	"	137 50
103	"	W. D. Pence.....	"	116 66
104	"	A. H. Daniels.....	"	100 00
105	"	H. S. Grindley.....	"	87 50
106	"	T. A. Clark.....	"	108 33
107	"	H. S. Piatt.....	"	83 33
108	"	B. V. Swinson.....	"	91 66
109	"	Geo. D. Fairfield.....	"	83 33
110	"	Chas. W. Tooke.....	"	83 33
111	"	Percy F. Bicknell.....	"	129 16
112	"	Henry H. Everett.....	"	100 00
113	"	Walter H. Jones.....	"	58 33
114	"	Wm. Esty.....	"	91 66
115	"	Fred A. Sager.....	"	91 66
116	"	G. D. Hammond.....	"	83 33
117	"	G. W. McClure.....	"	15 00
118	"	G. P. Clinton.....	"	83 33
119	"	Edward G. Howe.....	"	150 00
120	"	Geo. W. Graham.....	"	100 00
121	"	Lillie Heath.....	"	60 00
122	"	Sue W. Ford.....	"	50 00
123	"	L. A. Boice.....	"	50 00
124	"	W. F. Marker.....	"	45 00
125	"	Albert R. Lee.....	"	20 60
126	"	W. L. Pillsbury.....	"	116 66
127	"	C. V. Millar.....	"	60 00
128	"	Keuffel & Esser Co.....	Transit, etc.....	204 49
129	"	The Globe Co.....	Book case.....	36 00
130	"	Ruff & Berger.....	Eng'g leveling instruments.....	237 75
131	"	Richard Uttenweiler.....	Salary, July, 1896.....	50 00
132	"	W. R. Hoffman.....	"	35 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
133	July 31	J. J. Johnson.....	Salary, July, 1896.....	\$30 00
134	"	L. G. Lathrop.....	"	30 00
135	"	Champaign Supply Co.....	Pipe, fittings, etc.....	21 37
136	"	Agricultural Exp't. Station.....	Teaming.....	18 35
137	"	The Gazette.....	Printing.....	18 10
138	"	R. S. Wilber.....	Drayage.....	2 50
139	"	J. Hamilton & Sons.....	Lumber.....	47 21
140	"	Library Bureau.....	Revolving book case, etc.....	71 42
141	"	W. & L. E. Gurley.....	Transit, leveling rods, etc.....	225 00
142	"	Riehle Bros. Test'g Mach. Co.....	Nest cement sieve.....	9 00
143	"	John Chadwick & Co.....	Art supplies.....	37 71
144	"	Robinson & Burr.....	Magnolia babbitt, etc.....	3 28
145	"	T. R. Leal.....	Grading.....	20 90
146	"	Isaac Fielding.....	Postage.....	19 00
147	"	F. L. Bills.....	"	30 00
148	"	General Elect. Co.....	Electric supplies, etc.....	6 11
149	"	Fauth & Co.....	Transit and chronograph.....	333 50
150	"	Edward Bush.....	Samples of water.....	2 00
151	July 31	N. B. Morrison.....	Expenses.....	67 20
152	Aug. 15	T. R. Leal.....	Grading, hauling dirt.....	21 81
153	"	Library Bureau.....	File cases.....	30 00
154	"	Peoria Evening Times.....	Advertising.....	1 00
155	"	Chas. T. Wilder.....	Mounting photographs.....	13 36
156	"	C. A. Besore.....	Lumber.....	27 85
157	"	Champaign Supply Co.....	Plumbers' supplies.....	10 88
158	"	John T. Beem.....	Advertising.....	70
159	"	The Free Press.....	"	1 70
160	"	A. C. McClurg & Co.....	Stationery.....	13 75
161	"	The Kariher Grocery Co.....	Jars, matches, etc.....	4 25
162	"	Douglass & Shury Co.....	Photographic material.....	4 50
163	"	Alex J. W. Copelin.....	Paper.....	3 50
164	"	Bevis & Co.....	On contract, Astronomical Obs'v'ty.....	1,246 14
165	"	The H. M. R. Construction Co.....	On contract, Library building.....	10,925 00
166	"	Eimer & Amend.....	Chemical supplies.....	1,144 78
167	"	Ricker & White.....	Architect's commission.....	273 13
168	"	The Gazette.....	Printing.....	88 85
169	"	The Carborundum.....	Carbons.....	3 50
170	"	S. W. Shattuck, business m'g'r.....	Expressage.....	41 35
171	"	"	Sundry items.....	16 13
172	"	"	Pay roll of men, July, 1896.....	373 42
173	"	"	Pay roll of students, July, 1896.....	49 75
174	"	Champaign Co. Herald.....	Printing.....	25 25
175	"	J. C. Sedgwick.....	Contract, Vaccine Laboratory.....	425 00
176	Aug. 20	S. A. Ballard.....	Expenses to board meeting.....	35 35
177	"	N. W. Graham.....	"	13 57
178	"	W. L. Pillsbury.....	Expenses.....	13 01
179	"	S. W. Shattuck, business m'g'r.....	Expressage and freightage.....	23 28
180	"	J. G. Keller.....	Advertising.....	9 00
181	"	Engineering News Pub. Co.....	"	6 88
182	"	A. N. Talbot.....	Expenses.....	14 96
183	"	Champaign Co. Printing Co.....	Printing.....	31 16
184	"	R. S. Wilber.....	Drayage.....	15 50
185	"	S. W. Love.....	Advertising.....	1 00
186	"	DuQuoin Union Coal Co.....	Coal.....	49 58
187	"	Gardner Sash Balance Co.....	Steel ribbons.....	2 40
188	"	Champaign Supply Co.....	Valve nipples, etc.....	13 47
189	"	A. C. McClurg & Co.....	Stationery.....	12 97
190	"	Champaign Tile Factory.....	Tile.....	4 57
191	"	The Champaign Times.....	Printing and advertising.....	3 00
192	"	Isaac Fielding.....	Postage.....	20 00
193	"	F. L. Bills.....	"	31 00
194	"	Library Bureau.....	Index cards, etc.....	4 48
195	"	Thos. Naughton.....	Photographs.....	2 00
196	"	Henry Trevett.....	Spring balances, etc.....	4 45
197	"	Geo. W. Parker & Son.....	Flag poles.....	2 60
198	"	Yale & Towne M'fg Co.....	Locks.....	3 25
199	"	Baker & Adamson.....	Acids and bottles.....	111 50
200	"	The Gazette.....	Printing programs.....	6 75
201	Aug. 31	A. S. Draper.....	Salary for August, 1896.....	583 33
202	"	T. J. Burrill.....	"	225 00
203	"	S. W. Shattuck.....	"	166 66
204	"	Edward Snyder.....	"	166 66
205	"	N. Clifford Ricker.....	"	191 66
206	"	Ira O. Baker.....	"	183 33
207	"	S. A. Forbes.....	"	83 33
208	"	C. W. Rolfe.....	"	175 00
209	"	D. McIntosh.....	"	150 00



*Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.	
210	1896.				
Aug.	31	A. N. Talbot.....	Salary for August, 1896.....	175 00	
211	"	A. W. Palmer.....	" "	175 00	
212	"	F. F. Frederick.....	" "	158 33	
213	"	S. W. Parr.....	" "	175 00	
214	"	H. J. Barton.....	" "	166 66	
215	"	C. M. Moss.....	" "	175 00	
216	"	D. K. Dodge.....	" "	166 66	
217	"	L. P. Breckenridge.....	" "	166 66	
218	"	David Kinley.....	" "	187 50	
219	"	Eugene Davenport.....	" "	87 50	
220	"	Arnold Tompkins.....	" "	150 00	
221	"	E. J. Townsend.....	" "	137 50	
222	"	H. E. Summers.....	" "	137 50	
223	"	E. B. Greene.....	" "	133 33	
224	"	Katharine Merrill.....	" "	108 33	
225	"	W. O. Krohn.....	" "	150 00	
226	"	Jas. M. White.....	" "	125 00	
227	"	W. H. VanDervoort.....	" "	137 50	
228	"	W. D. Pence.....	" "	116 66	
229	"	A. H. Daniels.....	" "	100 00	
230	"	H. S. Grindley.....	" "	87 50	
231	"	T. A. Clark.....	" "	108 33	
232	"	H. S. Piatt.....	" "	83 33	
233	"	B. V. Swenson.....	" "	91 66	
234	"	G. D. Fairfield.....	" "	83 33	
235	"	Chas. W. Tooke.....	" "	83 33	
236	"	Perry F. Bicknell.....	" "	129 16	
237	"	Henry H. Everett.....	" "	100 00	
238	"	Walter H. Jones.....	" "	58 33	
239	"	William Estv.....	" "	91 66	
240	"	Fred A. Sager.....	" "	91 66	
241	"	G. D. Hammond.....	" "	83 33	
242	"	G. W. McCluer.....	" "	15 00	
243	"	G. P. Clinton.....	" "	83 33	
244	"	Edward G. Howe.....	" "	150 00	
245	"	Geo. W. Graham.....	" "	100 00	
246	"	Lillie Heath.....	" "	60 00	
247	"	Sue W. Ford.....	" "	50 00	
248	"	L. A. Boice.....	" "	50 00	
249	"	W. F. Marker.....	" "	45 00	
250	"	Albert R. Lee.....	" "	20 00	
251	"	Richard Uttenweiler.....	" "	50 00	
252	"	W. R. Hoffman.....	" "	35 00	
253	"	J. J. Johnson.....	" "	30 00	
254	"	L. G. Lathrop.....	" "	30 00	
255	"	W. L. Pillsbury.....	" "	116 66	
256	"	L. P. Breckenridge.....	Salary, 3 months, to August, 1896.....	62 50	
257	"	S. W. Shattuck.....	" "	150 00	
258	"	C. V. Millar.....	Salary for August, 1896.....	60 00	
259	"	J. C. Sedgwick.....	Balance on contract.....	100 40	
260	"	Fairbanks, Morse & Co.....	Scales.....	5 20	
261	"	N. C. Ricker.....	Expenses.....	1 75	
262	"	Arthur W. Palmer.....	" "	9 16	
263	"	S. W. Shattuck, business m'gr.....	Freight and express, etc.....	77 88	
264	"	Champaign Co. Printing Co.....	Printing.....	9 10	
265	"	Bausch & Lomb Optical Co.....	Apparatus, etc.....	28 76	
266	"	Western Union Telegraph Co.....	Telegrams.....	7 84	
267	"	E. Henry.....	Brooms, soap, etc.....	18 42	
268	"	Yale & Towne M'fg Co.....	Repairing locks and keys.....	5 11	
269	"	J. Hamilton & Son.....	Lumber.....	111 49	
270	"	Cayuga Press Brick Co.....	Brick.....	24 00	
271	"	Office Specialty M'fg Co.....	Cases.....	77 10	
272	"	C. H. Russell & Co.....	Hardware.....	6 50	
273	"	Bertha Pillsbury.....	Work.....	28 00	
274	"	Library Bureau.....	Index cards.....	16 34	
275	"	City of Urbana.....	Police service and gravel.....	33 43	
276	Sept.	15	The H. M. R. Construction Co.....	Contract, library building.....	22,099 00
277	"	Ricker & White.....	Architect's commission.....	552 47	
278	"	Bevis & Co.....	Final payment, astronomical obs.....	1,597 45	
279	"	Warner & Swasey.....	Part payment on contract.....	3,000 00	
280	"	J. E. Armstrong.....	Expenses.....	14 70	
281	"	N. W. Graham.....	" "	18 92	
282	"	Alex. McLean.....	" "	25 32	
283	"	S. A. Bullard.....	" "	11 40	
284	"	N. B. Morrison.....	" "	27 50	
285	"	Richard P. Morgan.....	" "	33 08	

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
286	Sept. 15	Isaac S. Raymond.....	Expenses.....	\$10 80
287	"	C. Hemmeke & Co.....	Moulding clay.....	7 00
288	"	Bimer & Amend.....	Chemical supplies.....	309 04
289	"	Chas. H. Mears & Co.....	Lumber.....	18 00
290	"	Walter H. Jones.....	Expenses.....	10 16
291	"	Morgan Stationery Co.....	Stationery.....	5 00
292	"	A. C. McClurg & Co.....	".....	10 00
293	"	Library Bureau.....	File cases.....	30 00
294	"	Henry Troemner.....	Balances, etc.....	856 25
295	"	Chas. W. Spalding, Treas.....	Expenses, premiums, etc.....	310 98
296	"	Cunningham & Boggs.....	Legal services.....	202 81
297	"	S. S. Benham.....	Professional services and expenses.....	445 56
298	"	H. T. Sperry & Son.....	Insurance.....	42 45
299	"	Bevis & Co.....	Locks, etc.....	23 00
300	"	J. C. Sedgwick.....	On contract, chemical laboratory.....	2,663 05
301	"	Maltby & Wallace Co.....	Fittings.....	1 22
302	"	The Western News Co.....	Subscription.....	22 55
303	"	Hodge & Homer Co.....	Sash cord.....	18 88
304	"	Jas. H. Rice & Co.....	Lumber.....	50 34
305	"	Chas. H. Mears & Co.....	".....	119 85
306	"	Brunswick-Balke-Collender Co.....	Desks and chairs.....	81 50
307	"	Detroit Flower Pot Mfg. Co.....	Flower pots.....	14 08
308	"	National Tube Works Co.....	Hydrants, etc.....	60 74
309	"	Rochester Optical Co.....	Photographic material.....	16 16
310	"	T. R. Leal.....	Hauling and grading.....	23 10
311	"	Pittsburgh Reduction Co.....	Platinum wire.....	9 32
312	"	Fuller & Fuller Co.....	Chemical supplies.....	60 92
313	"	Henry Heil Chemical Co.....	Supplies.....	74 39
314	"	Whitall, Tatum & Co.....	Chemical supplies.....	60 92
315	"	F. B. Vandegrift & Co.....	Ocean freight, etc.....	11 66
316	"	Henry J. Green.....	Barometer.....	41 70
317	"	Central Electric Co.....	Wire, etc.....	35 18
318	"	John Maguire.....	Work on instruments, etc.....	8 75
319	"	Fairbanks-Morse Co.....	Scales.....	6 50
320	"	Clayton F. Summy Co.....	Piano.....	850 00
321	"	Orr & Lockett Hardware Co.....	Locks and hooks.....	7 29
322	"	Chesapeake & Ohio Co.....	Coke and pig iron.....	39 07
323	"	C. & U. Phoenix Telephone Co.....	Services to December 15, 1896.....	41 50
324	"	S. W. Shattuck, Business Mgr.....	Pay roll of students, August, 1896.....	47 68
325	"		men.....	1,086 39
326	Sept. 30	A. S. Draper.....	Salary, September, 1896.....	583 33
327	"	T. J. Burrill.....	".....	225 00
328	"	S. W. Shattuck.....	".....	166 66
329	"	E. Snyder.....	".....	166 66
330	"	N. C. Ricker.....	".....	191 66
331	"	Ira O. Baker.....	".....	183 33
332	"	S. A. Forbes.....	".....	83 33
333	"	C. W. Rolfe.....	".....	175 00
334	"	D. McIntosh.....	".....	50 00
335	"	A. N. Talbot.....	".....	175 00
336	"	A. W. Palmer.....	".....	175 00
337	"	F. F. Frederick.....	".....	158 33
338	"	S. W. Parr.....	".....	175 00
339	"	H. J. Barton.....	".....	166 66
340	"	Chas. M. Moss.....	".....	175 00
341	"	D. K. Dodge.....	".....	83 33
342	"	L. P. Breckenridge.....	".....	166 66
343	"	David Kinley.....	".....	187 50
344	"	Eugene Davenport.....	".....	87 50
345	"	Arnold Tompkins.....	".....	150 00
346	"	A. P. Carman.....	".....	187 50
347	"	George W. Myers.....	".....	145 83
348	"	H. E. Summers.....	".....	137 50
349	"	Edgar J. Townsend.....	".....	137 50
350	"	E. B. Greene.....	".....	141 66
351	"	James M. White.....	".....	125 00
352	"	Katharine Merrill.....	".....	108 33
353	"	Wm. O. Krohn.....	".....	150 00
354	"	Wm. H. VanDervoort.....	".....	137 50
355	"	W. D. Pence.....	".....	125 00
356	"	H. S. Grindley.....	".....	100 00
357	"	T. A. Clark.....	".....	125 00
358	"	B. V. Swenson.....	".....	100 00
359	"	A. H. Daniels.....	".....	100 00
360	"	Percy F. Bicknell.....	".....	129 16
361	"	Geo. D. Fairfield.....	".....	108 33

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
362	1896. Sept. 30	Chas. W. Tooke .....	Salary, September, 1896.....	\$100 00
363	"	Walter H. Jones .....	"	75 00
364	"	Henry H. Everett .....	"	116 66
365	"	Fred A. Sager .....	"	91 66
366	"	William Esty .....	"	100 00
367	"	Lewis A. Rhoades .....	"	125 00
368	"	Frank Smith; .....	"	100 00
369	"	C. D. McLane .....	"	91 66
370	"	P. G. Holden .....	"	50 00
371	"	J. E. McGilvery .....	"	100 00
372	"	J. D. Phillips .....	"	90 00
373	"	Ralph F. Smith .....	"	120 00
374	"	Helen E. Butterfield .....	"	75 00
375	"	Robert A. Wood .....	"	80 00
376	"	Geo. A. Goodenough .....	"	80 00
377	"	Oscar Quick .....	"	75 00
378	"	E. J. Lake .....	"	60 00
379	"	Ella H. Morrison .....	"	100 00
380	"	Geo. A. Huff .....	"	120 09
381	"	W. J. Fraser .....	"	40 00
382	"	Carlton R. Rose .....	"	70 00
383	"	Edwin H. Pierce .....	"	80 00
384	"	Joseph C. Blair .....	"	41 66
385	"	Adeline W. Rowley .....	"	70 00
386	"	S. J. Temple .....	"	120 00
387	"	Geo. H. Alden .....	"	70 00
388	"	J. G. Mosier .....	"	70 00
389	"	Robert C. Vial .....	"	70 00
390	"	C. F. Hottes .....	"	60 00
391	"	M. S. Ketchum .....	"	70 00
392	"	Paul Chipman .....	"	70 00
393	"	A. S. Patterson .....	"	50 00
394	"	D. H. Carnahan .....	"	40 00
395	"	Harry Keeler .....	"	50 00
396	"	W. C. Brenke .....	"	70 00
397	"	C. B. Clark .....	"	85 00
398	"	A. R. Curtiss .....	"	85 00
399	"	Henry Jones .....	"	60 00
400	"	Joseph H. Wilson .....	"	50 00
401	"	Mary Maude Cole .....	"	40 00
402	"	Chas. H. Garnett .....	"	40 00
403	"	Jas. H. McKee .....	"	40 00
404	"	Walter G. Campbell .....	"	40 00
405	"	Geo. D. Hubbard .....	"	40 00
406	"	Edward L. Milne .....	"	40 00
407	"	Geo. F. Anderson .....	"	10 00
408	"	Edward G. Howe .....	"	150 00
409	"	N. A. Weston .....	"	90 00
410	"	L. A. Clendenin .....	"	65 00
411	"	Chas. N. Cole .....	"	75 00
412	"	R. S. Douglass .....	"	75 00
413	"	Geo. W. Schmidt .....	"	70 00
414	"	D. McIntosh .....	"	50 00
415	"	Geo. W. Graham .....	"	100 00
416	"	M. T. Lindsey .....	"	35 00
417	"	I. H. Allen .....	"	35 00
418	"	F. J. Foote .....	"	75 00
419	"	Lillie Heath .....	"	60 00
420	"	Sue W. Ford .....	"	50 00
421	"	L. A. Boice .....	"	50 00
422	"	Wm. F. Marker .....	"	50 00
423	"	Albert R. Lee .....	"	20 00
424	"	Joe Morrow .....	"	75 00
425	"	E. W. Justus .....	"	50 00
426	"	C. B. Ewalt .....	"	20 00
427	"	Richard Uttenweiler .....	"	50 00
428	"	W. R. Hoffman .....	"	37 00
429	"	L. G. Lathrop .....	"	32 00
430	"	J. J. Johnson .....	"	32 00
431	"	A. S. Golden .....	"	32 00
432	"	Elbert E. Pound .....	"	32 00
433	"	Jas. T. Shaw .....	"	32 00
434	"	Philip Schwehm .....	"	27 00
435	"	C. V. Millar .....	"	60 00
436	"	W. L. Pillsbury .....	"	116 66
437	"	C. A. Kofoid .....	"	27 85
438	"	B. Zelle .....	Canvas, etc.....	4 06

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
439	Sept. 30	Thos. Naughton.....	Photographs.....	\$13 50
440	"	Golden & Kimball.....	Copper box.....	2 00
441	"	<i>Champaign Co. Herald</i> .....	Printing.....	73 00
442	"	D. H. Lloyd & Son.....	Moving piano.....	28 50
443	"	Watson Faulkner.....	Lead, oil, etc.....	7 90
444	"	W. W. Walls & Co.....	Lumber.....	162 47
445	"	J. C. Sedgwick.....	" etc.....	93 82
446	"	Geo. W. Parker & Son.....	Cases, drawers, etc.....	94 70
447	"	Champaign Cabinet Co.....	Lumber.....	68 85
448	"	Norris Sash Pulley Co.....	Pulleys.....	11 09
449	"	G. E. Marshall & Co.....	Record book and index.....	5 75
450	"	J. H. Bainum.....	Plastering.....	84 71
451	"	Hubbard & Sons.....	Contract on plumbing.....	127 43
452	"	Champaign Supply Co.....	Belting, etc.....	6 09
453	"	Sheldon Brick Co.....	Brick and mason.....	66 25
454	"	Henry Trevett.....	Hardware.....	45 97
455	"	H. Swannell.....	Gils, etc.....	27 97
456	"	A. M. & L. A. Terwilliger.....	Hardware.....	27 89
457	"	M. T. Lindsey.....	Labor.....	19 05
458	"	Jenny Electric Motor Co.....	Motor.....	162 50
459	"	Robinson & Burr.....	Towel racks, etc.....	13 00
460	"	Eugene Dietzgen & Co.....	Rings for surveying Insts.....	4 80
461	"	Albany Perfor'd Wpg. Paper Co.....	Paper.....	24 00
462	"	Standard Oil Co.....	Oil.....	11 59
463	"	Public School Publishing Co.....	Advertising.....	12 50
464	"	Ohio Storage Battery Co.....	Battery cells.....	25 00
465	"	Machinist Supply Co.....	Brass rods, etc.....	22 17
466	"	E. H. Sargent & Co.....	Bottles, platinum wire, etc.....	5 15
467	"	Franklin Institute of Pa.....	Subscription.....	1 50
468	"	Bausch & Lomb Optical Co.....	Apparatus.....	19 28
469	"	A. W. Palmer.....	Expenses.....	5 78
470	"	Franccke & Schindler.....	Hardware supplies.....	32 83
471	"	F. L. Bills.....	Postage.....	46 00
472	"	Isaac Fielding.....	".....	33 00
473	"	J. Hamilton & Son.....	Lumber.....	54 73
474	"	C. A. Besore.....	".....	50 21
475	"	Jas. M. White.....	Expenses as architect.....	86 45
476	"	Eimer & Amend.....	Laboratory apparatus.....	35 41
477	"	Gustav E. Stechert.....	Books.....	187 98
478	"	A. C. McClurg & Co.....	Stationery and books.....	84 44
479	"	Baker & Turnell.....	Caligraph.....	50 00
480	"	The Gazette.....	Printing.....	10 35
481	"	Wyckoff, Seamans & Benedict.....	Typewriter.....	100 00
482	"	Lyon & Healy.....	Music.....	8 37
483	"	Yale & Towne Mfg. Co.....	Locks, Keys, etc.....	10 73
484	"	Champaign Co. Ptg Co.....	Advertisement.....	1 56
485	"	Chas. H. Besly & Co.....	Brass rods, etc.....	6 05
486	"	Wm. Price.....	Painting barn, etc.....	162 06
487	"	A. G. Spalding Bros.....	Foils, nests, etc.....	26 70
488	"	B. L. Batsford.....	Books.....	303 69
489	"	Spon & Chamberlin.....	".....	2 50
490	"	Cleveland Twist and Drill Co.....	Drills.....	1 53
491	"	<i>Champaign Co. Herald</i> .....	Printing, etc.....	9 50
492	"	Marine Iron Works.....	Blade for propeller.....	8 00
493	"	Champaign Supply Co.....	Fittings.....	15 57
494	"	C & U, Electric St. Ry. Co.....	Motor, lights, gas.....	397 00
495	"	Odin Coal Co.....	Coal.....	369 97
496	"	C. D. McLane.....	Services as architect.....	100 00
497	"	S. W. Shattuck, Business Mgr.....	Sundry items.....	49 63
498	"	".....	Expenses.....	63 45
499	"	".....	Freight.....	147 21
500	"	Chem. Laboratory, Univ. of Ill.....	Supplies furnished departments.....	68 51
501	Oct. 15	H. M. R. Construction Co.....	Contract for library building.....	12,529 00
502	"	Library Bureau.....	Library stacks, floors, etc.....	3,400 00
503	"	VanAuken Steam Specialty Co.....	Pressure regulators.....	20 60
504	"	E. H. Freidricks.....	Sliding easel.....	13 88
505	"	Jones & Laughlin.....	Steel.....	26 89
506	"	Chas. A. Besore.....	Lumber.....	127 10
507	"	Western Electric Co.....	Lamps and posts.....	11 55
508	"	Union Mfg. Co.....	Water to Jan. 1, 1897.....	125 00
509	"	Pettv & Sayers.....	Making boxes.....	11 60
510	"	<i>Champaign Co. Herald</i> .....	Printing.....	26 25
511	"	Eimer & Amend.....	Chemical supplies.....	20 90
512	"	Ricker & White.....	Architect's commission.....	398 22
513	"	J. C. Sedgwick.....	Final payment on contract.....	1,267 95
514	"	S. W. Parr.....	Microscope.....	35 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
515	Oct. 15	Electric Engineering Dept.	Switches, wire, etc.	\$13 30
516	"	Chas. H. Mears & Co.	Lumber	186 90
517	"	Robinson & Burr	Plumbing, etc.	157 08
518	"	N. W. Graham	Expenses to Board meeting	24 00
519	"	J. E. Armstrong	"	23 10
520	"	Richard P. Morgan	"	34 70
521	"	W. L. Pillsbury	"	19 41
522	"	E. Davenport	Expenses	6 00
523	"	T. R. Lea	Hauling rubbish, etc.	76 17
524	"	Champaign Co. Herald	Printing	21 00
525	"	Keuffel & Esser Co.	Drawing paper, etc.	9 35
526	"	Richard Kny & Co.	Filters	2 20
527	"	Eugene Dietzgen & Co.	Paper cloth	11 02
528	"	Frank Burger	Corydalis	3 00
529	"	Richards & Co.	Tubes	2 33
530	"	Miles Newberry	Wages, September, 1896.	20 00
531	"	W. H. Van Dervoort	Expenses	5 57
532	"	Franklin Eng'g Electric Co.	Cuts	31 85
533	"	M. M. Clark	Coal	6 63
534	"	U. & C. Electric Street Ry. Co.	Poles	9 00
535	"	Central Electric Co.	Wire	9 45
536	"	Fauth & Co.	Level	86 00
537	"	Library Bureau	Oak case	2 75
538	"	T. H. Trevett	Scoops, hammers, etc.	7 15
539	"	Bausch & Lomb Optical Co.	Microscopes, etc.	293 38
540	"	Western News Co.	Subscription	8 25
541	"	A. P. Cunningham & Son.	Stencil paper, etc.	10 80
542	"	Western Union Telegraph Co.	Telegrams	1 38
543	"	Price & Sandford.	Chemicals	3 90
544	"	Narragansett Machine Co.	Basket ball outfit.	5 00
545	"	L. Prang & Co.	Art studies	5 00
546	"	Pontiac Eng. & Pub. Co.	Cut of building	. 90
547	"	Fuller & Fuller Co.	Quicksilver, etc.	41 70
548	"	E. G. Smith	Thread screws	10 00
549	"	Jas. B. Clowe & Son	Iron pipe, etc.	312 57
550	"	A. W. French	Books	14 25
551	"	R. J. Price	Setting trees	24 00
552	"	A. C. McClurg & Co.	Books and stationery	50 02
553	"	Douglas Osborne	Underpinning Vet'n ri'n Bldg., etc.	25 50
554	"	G. E. Stechert	Books	5 43
555	"	Ward Bros.	"	124 60
556	"	Fred Medart	Dumb bells	15 00
557	"	Henry R. Worthington	Plugs and brass rings	17 50
558	"	Revere Rubber Co.	Hose	33 04
559	"	Champaign Supply Co.	Nipples, unions, etc.	4 65
560	"	Lyon & Potter Co.	Repairing piano	100 00
561	"	J. Manz & Co.	Zinc plate	10 00
562	"	Chicago Carpet Co.	Linoleum matting, etc.	32 54
563	"	Smith Premier Typewriter Co.	Card holder	5 00
564	"	George B. Grant	Calculating machine	59 50
565	"	Chapman Valve M'fg Co.	Valve	62 70
566	"	James G. Biddle	Models	313 08
567	"	Clarence Decker	Water samples	2 25
568	"	John Doughty	Salary, September, 1896	50 00
569	"	F. L. Bills	Postage	70 00
570	"	Isaac Fielding	"	60 00
571	"	S. W. Shattuck, business m'gr	Freight and express	47 03
572	"	"	Sundry items	75 52
573	"	"	Expenses	34 04
574	"	"	Pay roll of men, September, 1896	539 18
575	"	"	Pay roll of students, September, 1896	157 13
576	Oct. 31	A. S. Draper	Salary, October, 1896	533 33
577	"	T. J. Burrill	"	225 00
578	"	S. W. Shattuck	"	186 66
579	"	Edward Snyder	"	166 66
580	"	N. C. Ricker	"	191 66
581	"	Ira O. Baker	"	183 33
582	"	S. A. Forbes	"	83 33
583	"	C. W. Rolfe	"	175 00
584	"	D. McIntosh	"	50 00
585	"	A. N. Talbot	"	175 00
586	"	A. W. Palmer	"	175 00
587	"	F. F. Frederick	"	158 33
588	"	S. W. Parr	"	175 00
589	"	H. J. Barton	"	166 66
590	"	Chas. M. Moss	"	175 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
591	Oct. 31	D. K. Dodge.....	Salary, October, 1896.....	\$83 33
592	"	L. P. Breckenridge.....	"	166 66
593	"	David Kinley.....	"	187 50
594	"	Eugene Davenport.....	"	87 50
595	"	Arnold Tompkins.....	"	150 00
596	"	A. P. Carman.....	"	187 50
597	"	George W. Myers.....	"	145 83
598	"	H. E. Summers.....	"	137 50
599	"	Edgar J. Townsend.....	"	137 50
600	"	E. B. Greene.....	"	141 66
601	"	James M. White.....	"	125 00
602	"	Katharine Merrill.....	"	108 33
603	"	W. O. Krohn.....	"	150 00
604	"	W. H. Van Dervoort.....	"	137 50
605	"	W. D. Pence.....	"	125 00
606	"	H. S. Grindley.....	"	100 00
607	"	T. A. Clark.....	"	125 00
608	"	B. V. Swenson.....	"	100 00
609	"	A. H. Daniels.....	"	100 00
610	"	Percy F. Bicknell.....	"	129 16
611	"	George D. Fairfield.....	"	108 33
612	"	Charles W. Tooke.....	"	100 00
613	"	Walter H. Jones.....	"	75 00
614	"	Henry H. Everett.....	"	116 66
615	"	Fred A. Sager.....	"	91 66
616	"	William Esty.....	"	100 00
617	"	Lewis A. Rhoades.....	"	125 00
618	"	Frank Smith.....	"	100 00
619	"	C. D. McLane.....	"	91 66
620	"	P. G. Holden.....	"	50 00
621	"	J. E. McGilvrey.....	"	100 60
622	"	George H. Alden.....	"	70 00
623	"	J. D. Phillips.....	"	90 00
624	"	R. P. Smith.....	"	120 00
625	"	Helen E. Butterfield.....	"	75 00
626	"	Robert A. Wood.....	"	80 00
627	"	George A. Goodenough.....	"	80 00
628	"	Oscar Quick.....	"	75 00
629	"	Edward J. Lake.....	"	60 00
630	"	Ella H. Morrison.....	"	100 00
631	"	George A. Huff.....	"	120 00
632	"	W. J. Fraser.....	"	26 66
633	"	Carlton R. Rose.....	"	70 00
634	"	Edwin H. Pierce.....	"	80 00
635	"	Joseph C. Blair.....	"	41 66
636	"	S. J. Temple.....	"	120 00
637	"	Adeline W. Rowley.....	"	70 00
638	"	George W. Schmidt.....	"	70 00
639	"	J. G. Mosier.....	"	70 00
640	"	Robert C. Vial.....	"	70 00
641	"	C. F. Hottes.....	"	60 00
642	"	M. S. Ketchum.....	"	70 00
643	"	Paul Chipman.....	"	70 00
644	"	A. S. Patterson.....	"	50 00
645	"	D. H. Carnahan.....	"	40 00
646	"	Harry Keeler.....	"	50 00
647	"	W. C. Brenke.....	"	70 00
648	"	C. B. Clark.....	"	85 00
649	"	A. R. Curtiss.....	"	85 00
650	"	Henry Jones.....	"	60 00
651	"	J. H. Wilson.....	"	70 00
652	"	Mary Maude Cole.....	"	40 00
653	"	Charles H. Garnett.....	"	40 00
654	"	James H. McKee.....	"	40 00
655	"	Walter G. Campbell.....	"	40 00
656	"	George D. Hubbard.....	"	40 00
657	"	E. L. Milne.....	"	40 00
958	"	G. F. Anderson.....	"	10 00
659	"	E. G. Howe.....	"	150 00
660	"	N. A. Weston.....	"	90 00
661	"	Lillie A. Clendenin.....	"	65 00
662	"	Charles N. Cole.....	"	75 00
663	"	R. S. Douglass.....	"	75 00
664	"	W. L. Pillsbury.....	"	116 66
665	"	George W. Graham.....	"	100 00
666	"	M. T. Lindsey.....	"	35 00
667	"	I. H. Allen.....	"	35 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
668	Oct. 1	F. J. Foote.....	Salary, October, 1896.....	\$75 00
669	"	Lillie Heate.....	"	60 00
670	"	Sue W. Ford.....	"	50 00
671	"	L. A. Boice.....	"	50 00
672	"	W. F. Marker.....	"	50 00
673	"	Albert R. Lee.....	"	20 00
674	"	Joe Morrow.....	"	75 00
675	"	E. W. Justus.....	"	50 00
676	"	C. B. Ewalt.....	"	20 00
677	"	D. McIntosh.....	"	50 00
678	"	A. V. Millar.....	"	60 00
679	"	Richard Uttenweiler.....	"	50 00
680	"	W. R. Hoffman.....	"	37 00
681	"	L. G. Lathrop.....	"	32 00
682	"	J. J. Johnson.....	"	32 00
683	"	James T. Shaw.....	"	32 00
684	"	A. S. Golden.....	"	32 00
685	"	Elbert B. Pound.....	"	32 00
686	"	Philip Schwehm.....	"	27 00
687	"	Henry J. East.....	"	40 00
688	"	John Dougherty.....	"	50 00
689	"	C. A. Kafoid.....	"	100 00
690	"	Miles Newberry.....	"	20 00
691	"	Geo. Gordon & Co.....	Bottles.....	2 00
692	"	Syracuse Twist Drill Co.....	Measuring machine.....	37 50
693	"	Eimer & Amend.....	Sulphide of iron, etc.....	36 15
694	"	Baker & Adamson.....	Filters.....	9 76
695	"	The Gazette.....	Portfolio, etc.....	27 55
696	"	J. C. Vaughan.....	Plants, etc.....	21 85
697	"	D. McIntosh.....	Expenses.....	23 28
698	"	Sanders Publishing Co.....	Advertisement.....	28 00
699	"	Prairie Farmer Publishing Co.....	"	7 50
700	"	James H. Rice & Co.....	Lumber.....	63 96
701	Nov. 14	D. McIntosh.....	Stove.....	10 00
702	"	Rogers Manufacturing Co.....	Ivory lancet.....	10 00
703	"	Haussman & Dunn.....	Veterinary instruments.....	7 76
704	"	C. J. Sabin.....	Hauling coal, hay, etc.....	7 95
705	"	F. K. Robeson & Bros.....	Matting, etc.....	18 35
706	"	Chas. A. Besore.....	Lumber.....	65 53
707	"	Mary A. Wood.....	Charts.....	6 24
708	"	Lydia M. Hart.....	Drawings.....	10 25
709	"	T. R. Leal.....	Hauling cinders, etc.....	49 82
710	"	F. M. Norris.....	Books.....	51 75
711	"	Harry Falkenan.....	"	6 00
712	"	Gustav E. Stechert.....	"	27 00
713	"	Ferris Manufacturing Co.....	Flue scraper.....	8 50
714	"	Henry Heil Chemical Co.....	Platinum wire, etc.....	43 90
715	"	Eimer & Amend.....	Apparatus.....	31 75
716	"	Electric Appliance Co.....	Wire, etc.....	44 21
717	"	Francke & Schindler.....	Hardware.....	25 68
718	"	J. T. Wolcott.....	Stenographic work.....	42 50
719	"	W. A. Olmsted.....	Slated paper.....	9 95
720	"	Fuller & Fuller Co.....	Window glass, acids, etc.....	20 17
721	"	Eugene Dietzgen & Co.....	Repairing tape.....	3 50
722	"	Orr & Lockett Hardware Co.....	Hardware.....	40 64
723	"	D. H. Lloyde & Son.....	Stationery, etc.....	46 45
724	"	C. H. Lander.....	Earthworms.....	64 00
725	"	Bausch & Lomb Optical Co.....	Microscopes, etc.....	596 87
726	"	Deste & Selley Co.....	Return trap and receiver.....	57 50
727	"	Library Bureau.....	Century stand.....	15 00
728	"	The Globe Co.....	Oak cases.....	26 25
729	"	Champaign County Herald.....	Envelopes.....	38 00
730	"	The Gazette.....	Printing circulars, etc.....	435 70
731	"	Champaign County Ptg. Co.....	special blanks.....	13 50
732	"	H. W. Rokker.....	Dating circulars.....	2 50
733	"	Odin Coal Co.....	Coal.....	508 91
734	"	Rice Machinery Co.....	Pulley.....	2 59
735	"	Watson Faulkner.....	Hard oil finish.....	10 00
736	"	Nicholson File Co.....	Files.....	40 37
737	"	T. H. Trevett.....	Hardware, sash, cord.....	3 55
738	"	Brunswick-Balke-Collender Co.....	Desk, lounge, etc.....	54 50
739	"	Lawton & Co.....	Duplicator.....	6 38
740	"	Am. Short Horn Breeders' Assn.....	Book.....	9 00
741	"	Bevis & Co.....	Stakes.....	14 70
742	"	Yale-Towne Manufacturing Co.....	Keys, blanks, etc.....	4 24
743	"	The Toledo Bridge Co.....	Blue prints.....	5 00
744	"	H. F. Watson & Co.....	Mill board.....	12 29
745	"	Illinois Soc. of Eng. and Surv.....	Annual report.....	1 50

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
746	Nov. 14	H. Swannell.....	Thermometers .....	\$4 00
747	Nov. 14	A. N. Talbot.....	Expenses .....	13 59
748	Nov. 14	Library Bureau.....	Contract on book stacks.....	1,800 00
749	Nov. 14	H. M. R. Construction Co.....	Contract on library building.....	11,049 00
750	Nov. 14	Ricker & White.....	Architects' commission.....	321 22
751	Nov. 14	James B. Clow & Sons.....	Flanges, valves, plugs, etc.....	52 29
752	Nov. 14	Lunkenheimer Co.....	Gate valves, etc.....	50 20
753	Nov. 14	C. N. Clark & Co.....	Stone and limestone.....	23 00
754	Nov. 14	Maltby & Wallace Co.....	Bolts, washers, etc.....	9 00
755	Nov. 14	Standard Therm. & Elec. Co.....	Thermometers.....	6 30
756	Nov. 14	Crane Co.....	Glazed paper.....	39 25
757	Nov. 14	John D. Bangs & Co.....	Apparatus.....	7 70
758	Nov. 14	V. W. Shuck.....	Base burner.....	30 00
759	Nov. 14	Geo. W. Parker & Son.....	Desk and mercury table.....	76 80
760	Nov. 14	Narragansett Machine Co.....	Inclined rope.....	9 00
761	Nov. 14	Walter H. Jones.....	Music supplies.....	15 39
762	Nov. 14	Central Electric Co.....	Lamp, cord, wire, etc.....	34 67
763	Nov. 14	Pittsburg Reduction Co.....	Aluminum.....	6 62
764	Nov. 14	National Geographic Society.....	Subscription for 1896.....	1 50
765	Nov. 14	A. W. French.....	Book.....	1 70
766	Nov. 14	Fauth & Co.....	Graduated level.....	4 53
767	Nov. 14	Eng. News Publishing Co.....	Advertisement.....	6 81
768	Nov. 14	Whitall, Tatum & Co.....	Chemicals.....	16 36
769	Nov. 14	W. D. Hoard & Co.....	Advertisement.....	7 59
770	Nov. 14	A. C. McClurg & Co.....	Books, etc.....	318 81
771	Nov. 14	E. Henry.....	Brooms, soap, etc.....	53 10
772	Nov. 14	Robinson & Burr.....	Fees, etc.....	58 45
773	Nov. 14	Schäffer & Budenberg.....	Repairing thermometers.....	2 20
774	Nov. 14	<i>The Illini</i> .....	Subscription and advertisement.....	1 60
775	Nov. 14	F. L. Bills.....	Postage.....	85 05
776	Nov. 14	The Werner Co.....	Printing catalogue.....	619 26
777	Nov. 18	W. L. Pillsbury.....	Expenses.....	8 75
778	Nov. 18	J. E. McGilvrey.....	Expense, visiting high schools.....	35 65
779	Nov. 18	Lydia M. Hart.....	Chart drawings.....	9 57
780	Nov. 18	Richard P. Morgan.....	Expenses.....	16 40
781	Nov. 18	S. A. Bullard.....	Expenses.....	30 55
782	Nov. 18	B. V. Swenson.....	Labor and material.....	7 65
783	Nov. 18	T. R. Leal.....	Hauling cinders, etc.....	43 49
784	Nov. 18	Jessie C. Grinnell.....	Assistant in art department.....	34 00
785	Nov. 18	F. L. Bills.....	Postage.....	40 00
786	Nov. 18	Wm. Price.....	Calcimining, hanging shades.....	254 39
787	Nov. 18	Sheldon Brick Co.....	Brick, labor, etc.....	50 00
788	Nov. 18	Hubbard & Sons.....	Pipe fittings, etc.....	38 26
789	Nov. 18	Champaign Supply Co.....	Asphaltum, pipe, etc.....	113 24
790	Nov. 18	Robinson & Burr.....	Rheostadt.....	4 00
791	Nov. 18	The Gazette.....	Printing, note book, etc.....	88 90
792	Nov. 18	P. P. Caproni Bros.....	Art studies.....	29 11
793	Nov. 18	Machinists' Supply Co.....	Wrenches, brass rods, etc.....	6 18
794	Nov. 18	Central Electric Co.....	Lamp wire, sockets, etc.....	64 06
795	Nov. 18	Chesapeake & Ohio Co.....	Pig iron.....	155 79
796	Nov. 18	Frankford Steel Co.....	Forgings, etc.....	19 26
797	Nov. 18	S. W. Shattuck, Business Mgr.....	Sundry items.....	108 99
798	Nov. 18	Freight.....	Freight.....	134 84
799	Nov. 18	Pay roll, men, October, 1896.....	Pay roll, men, October, 1896.....	549 83
800	Nov. 18	students, October, 1896.....	students, October, 1896.....	246 03
801	Nov. 30	A. S. Draper.....	Salary, November, 1896.....	583 33
802	Nov. 30	T. J. Burrill.....	Salary, November, 1896.....	225 00
803	Nov. 30	S. W. Shattuck.....	Salary, November, 1896.....	166 66
804	Nov. 30	Edward Snyder.....	Salary, November, 1896.....	166 66
805	Nov. 30	N. C. Ricker.....	Salary, November, 1896.....	191 66
806	Nov. 30	Ira O. Baker.....	Salary, November, 1896.....	183 33
807	Nov. 30	S. A. Forbes.....	Salary, November, 1896.....	83 33
808	Nov. 30	C. W. Rolfe.....	Salary, November, 1896.....	175 00
809	Nov. 30	D. McIntosh.....	Salary, November, 1896.....	50 00
810	Nov. 30	A. N. Talbot.....	Salary, November, 1896.....	175 00
811	Nov. 30	A. W. Palmer.....	Salary, November, 1896.....	175 00
812	Nov. 30	N. F. Frederick.....	Salary, November, 1896.....	158 33
813	Nov. 30	S. W. Parr.....	Salary, November, 1896.....	175 00
814	Nov. 30	H. J. Barton.....	Salary, November, 1896.....	166 66
815	Nov. 30	C. M. Moss.....	Salary, November, 1896.....	175 00
816	Nov. 30	D. K. Dodge.....	Salary, November, 1896.....	83 33
817	Nov. 30	L. P. Breckenridge.....	Salary, November, 1896.....	166 66
818	Nov. 30	David Kinley.....	Salary, November, 1896.....	187 50
819	Nov. 30	Eugene Davenport.....	Salary, November, 1896.....	87 50
820	Nov. 30	Arnold Tompkins.....	Salary, November, 1896.....	150 00
821	Nov. 30	A. P. Carman.....	Salary, November, 1896.....	187 50
822	Nov. 30	G. W. Myers.....	Salary, November, 1896.....	145 83
823	Nov. 30	H. E. Summers.....	Salary, November, 1896.....	137 50



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
824	1896. Nov. 30	E. J. Townsend .....	Salary, November, 1896 .....	\$137 50
825	"	E. B. Greene .....	" .....	141 66
826	"	Jas. M. White .....	" .....	125 00
827	"	Katharine Merrill .....	" .....	108 33
828	"	Wm. O. Krohn .....	" .....	150 00
829	"	Wm. H. VanDervoort .....	" .....	137 50
830	"	W. D. Pence .....	" .....	125 00
831	"	H. S. Grindley .....	" .....	100 00
832	"	T. A. Clark .....	" .....	125 00
833	"	B. V. Swenson .....	" .....	100 00
834	"	A. H. Daniels .....	" .....	100 00
835	"	Percy F. Bicknell .....	" .....	129 16
836	"	Geo. D. Fairfield .....	" .....	108 33
837	"	Chas. W. Tooke .....	" .....	100 00
838	"	Walter H. Jones .....	" .....	75 00
839	"	Henry H. Everett .....	" .....	116 66
840	"	Fred A. Sager .....	" .....	91 66
841	"	Wm. Esty .....	" .....	100 00
842	"	Lewis A. Rhoades .....	" .....	125 00
843	"	Frank Smith .....	" .....	100 00
844	"	C. D. McLane .....	" .....	91 66
845	"	P. G. Holden .....	" .....	50 00
846	"	J. E. McGilvrey .....	" .....	100 00
847	"	Geo. H. Alden .....	" .....	70 00
848	"	J. D. Phillips .....	" .....	90 00
849	"	R. P. Smith .....	" .....	120 00
850	"	Helen E. Butterfield .....	" .....	75 00
851	"	Robt. A. Wood .....	" .....	80 00
852	"	Geo. A. Goodenough .....	" .....	80 00
853	"	Oscar Quick .....	" .....	75 00
854	"	Edward J. Lake .....	" .....	60 00
855	"	Ella H. Morrison .....	" .....	100 00
856	"	Geo. A. Huff .....	" .....	120 00
857	"	W. J. Fraser .....	" .....	33 33
858	"	Carlton R. Rose .....	" .....	70 00
859	"	Edwin H. Pierce .....	" .....	80 00
860	"	Joseph C. Blair .....	" .....	41 66
861	"	S. J. Temple .....	" .....	120 00
862	"	Adeline W. Rowley .....	" .....	70 00
863	"	Geo. W. Schmidt .....	" .....	70 00
864	"	J. G. Mosier .....	" .....	70 00
865	"	Robt. C. Vial .....	" .....	70 00
866	"	Chas. F. Hottes .....	" .....	60 00
867	"	M. S. Ketchum .....	" .....	70 00
868	"	Paul Chipman .....	" .....	70 00
869	"	A. S. Patterson .....	" .....	50 00
870	"	D. H. Carnahan .....	" .....	40 00
871	"	Harry Keeler .....	" .....	50 00
872	"	W. C. Brenke .....	" .....	70 00
873	"	C. B. Clark .....	" .....	85 00
874	"	A. R. Curtiss .....	" .....	85 00
875	"	Henry Jones .....	" .....	60 00
876	"	J. H. Wilson .....	" .....	60 00
877	"	Mary Maude Cole .....	" .....	40 00
878	"	Chas. H. Garnett .....	" .....	40 00
879	"	Jas. H. McKee .....	" .....	40 00
880	"	Walter G. Campbell .....	" .....	40 00
881	"	Geo. D. Hubbard .....	" .....	40 00
882	"	Edward L. Milne .....	" .....	40 00
883	"	Geo. F. Anderson .....	" .....	10 00
884	"	Edward G. Howe .....	" .....	150 00
885	"	N. A. Weston .....	" .....	90 00
886	"	Lillie A. Clendenin .....	" .....	65 00
887	"	Chas. N. Cole .....	" .....	75 00
888	"	R. S. Douglass .....	" .....	75 00
889	"	W. L. Pillsbury .....	" .....	116 66
890	"	Geo. W. Graham .....	" .....	100 00
891	"	M. T. Lindsey .....	" .....	35 00
892	"	I. H. Allen .....	" .....	35 00
893	"	F. J. Foote .....	" .....	75 00
894	"	Lillie Heath .....	" .....	60 00
895	"	Sue W. Ford .....	" .....	50 00
896	"	L. A. Boice .....	" .....	50 00
897	"	Wm. F. Marker .....	" .....	50 00
898	"	Albert R. Lee .....	" .....	20 00
899	"	oe Morrow .....	" .....	75 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
900	Nov. 30	E. W. Justus .....	Salary, November, 1896.....	\$50 00
901	"	C. B. Ewalt .....	" " " " " " " " " " " "	20 00
902	"	D. McIntosh .....	" " " " " " " " " " " "	50 00
903	"	C. V. Millar .....	" " " " " " " " " " " "	60 00
904	"	Richard Uttenweiler .....	" " " " " " " " " " " "	50 00
905	"	Henry J. East .....	" " " " " " " " " " " "	40 00
906	"	W. R. Hoffman .....	" " " " " " " " " " " "	37 00
907	"	L. G. Lathrop .....	" " " " " " " " " " " "	32 00
908	"	J. J. Johnson .....	" " " " " " " " " " " "	32 00
909	"	Jas. T. Shaw .....	" " " " " " " " " " " "	32 00
910	"	A. S. Golden .....	" " " " " " " " " " " "	32 00
911	"	E. E. Pound .....	" " " " " " " " " " " "	32 00
912	"	Philip Schwelm .....	" " " " " " " " " " " "	27 00
913	"	John Doughty .....	" " " " " " " " " " " "	50 00
914	"	S. W. Shattuck .....	Salary, 3 months, to Dec. 1, 1896.....	150 00
915	"	L. P. Breckenridge .....	" " " " " " " " " " " "	62 50
916	"	C. A. Kofoid .....	" " " " " " " " " " " "	100 00
917	"	Miles Newberry .....	for November, 1896.....	20 00
918	"	Orange Judd Co .....	Advertisement .....	5 20
919	"	J. T. Wolcott .....	Typewriter .....	3 50
920	"	Chas. A. Cox .....	Bird's eye view of University bldgs	20 00
921	"	W. H. Lowdermilk & Co .....	Book .....	3 20
922	"	Jerome, Thebouville, Lama & Co .....	Trumpet .....	28 50
923	"	Golden & Kimball .....	Tin, galvanized iron and labor .....	71 65
924	"	Cleveland Twist Drill Co. ....	Drills .....	57 20
925	"	Dwight Rantall .....	Draft gauge .....	6 08
926	Dec. 15	The H. M. R. Construction Co. ....	Contract library building .....	8,582 00
927	"	The B. F. Sturtevant Co. ....	Contract heating library building .....	2,500 00
928	"	Ricker & White .....	Architects' commission .....	277 05
929	"	Chicago Bridge and Iron Co. ....	Contract, stand pipe .....	519 50
930	"	Charles T. Wilder .....	Blue prints, etc. ....	72 92
931	"	Western News Co. ....	Subscriptions .....	288 20
932	"	George W. Myers .....	Books .....	111 25
933	"	Edward J. Nolan, treasurer .....	" " " " " " " " " " " "	2 50
934	"	Library Bureau .....	Card cases, etc. ....	26 75
935	"	Brunswick Balke-Collender Co .....	Oak tables .....	32 00
936	"	Orr & Lockett Hardware Co. ....	Door checks, etc. ....	15 05
937	"	Mittendorf & Kiler .....	Waste baskets, tables, etc. ....	56 84
938	"	Price & Sandford .....	Hot-water bottles .....	2 25
939	"	Charles A. Besore .....	Lumber .....	45 20
940	"	A. P. Cunningham & Son .....	Labels, bottles, etc. ....	14 65
941	"	Walker & Mulliken .....	Rug .....	3 25
942	"	George W. Parker & Son .....	Operating table, etc. ....	58 46
943	"	T. R. Leal .....	Grading, etc. ....	78 80
944	"	J. D. Green .....	Cornice and material for standpipe	21 15
945	"	G. C. Willis .....	Silk, etc. ....	7 96
946	"	W. A. Olmsted .....	Slated paper .....	1 67
947	"	F. K. Robeson & Bros. ....	Canvas, etc. ....	2 15
948	"	H. P. Harris .....	Mimeograph work .....	20 30
949	"	O. H. Lyon .....	Heifer .....	50 00
950	"	Chas. A. Strelinger & Co. ....	Emery cloth, hammer, handles, etc.	41 75
951	"	J. E. Armstrong .....	Expenses .....	17 16
952	"	N. W. Graham .....	" " " " " " " " " " " "	16 82
953	"	Alex. McLean .....	" " " " " " " " " " " "	49 46
954	"	S. A. Bullard .....	" " " " " " " " " " " "	88 40
955	"	N. B. Morrison .....	" " " " " " " " " " " "	46 15
956	"	Isaac S. Raymond .....	" " " " " " " " " " " "	40 45
957	"	S. M. Inglis .....	" " " " " " " " " " " "	41 50
958	"	Chas. W. Spalding, treasurer .....	" " " " " " " " " " " "	110 45
959	"	A. S. Draper .....	6 months, to Nov. 30, 1896.....	130 40
960	"	Helen E. Butterfield .....	" " " " " " " " " " " "	7 50
961	"	H. H. Everett .....	" " " " " " " " " " " "	19 66
962	"	Edward G. Howe .....	" " " " " " " " " " " "	11 20
963	"	J. E. McGilvrey .....	" " " " " " " " " " " "	16 87
964	"	D. H. Lloyd & Son .....	Piano scarf .....	4 00
965	"	Hubbard & Sons .....	Nails, keys, etc. ....	6 20
966	"	J. C. Vaughan .....	Seeds, etc. ....	3 35
967	"	Yale & Towne Manufact'ng Co. ....	Refitting keys .....	3 98
968	"	R. Herbst .....	Typewriter ribbons .....	2 25
969	"	The Karicher Grocery Co. ....	Jars, etc. ....	12 00
970	"	A. B. Dick & Co. ....	Mimeograph .....	15 00
971	"	Alex. Nielsen .....	Necturies .....	5 00
972	"	Liquid Carbonic Acid Mfg Co. ....	Acid .....	3 00
973	"	Riley Jewelry Co. ....	Glass cutter .....	3 50
974	"	Diamond Flask and Clamp Co. ....	Brass castings .....	3 15
975	"	W. H. Kemp Co. ....	Aluminum .....	2 20
976	"	Odin Coat Co. ....	Coal .....	1,161 81
977	"	Arnold & Holcomb Mfg Co. ....	Floor brushes, etc. ....	12 25

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.	
978	1896.				
	Dec.	15			
978		Montgomery Ward & Co.....	Apparatus.....	\$3 45	
979		Adolph Hempel.....	Work.....	8 50	
980		Petty & Sayers.....	Shelves, etc.....	92 49	
981		Brown & Sharpe Mfg Co.....	Grinding, fixtures, etc.....	43 34	
982		Charles F. Harlow & Co.....	Arbor press.....	14 40	
983		C. H. Green & Co.....	Snap flasks.....	12 15	
984		Weston Electrical Inst. Co.....	Voltmeter.....	25 43	
985		E. E. Josef Mfg Co.....	Flask clamps.....	8 00	
986		Crosby Steam Gauge and V. Co.....	Indicator and fittings.....	35 00	
987		Central Electric Co.....	Cleats, switches, etc.....	13 90	
988		John Gayner.....	Glass jars.....	6 00	
989		McIntosh Battery and Opt'l Co.....	Tubes, etc.....	3 78	
990		Jones & Laughlins.....	Steel.....	2 47	
991		Thomas Wright & Son.....	Fittings for stand pipe.....	31 00	
992		Ira O. Baker.....	Book.....	3 00	
993		Eugene Dietzgen & Co.....	Tracing cloth.....	15 76	
994		Rochester Optical Co.....	Trays, frames, etc.....	6 83	
995		Burlington Venetian Blind Co.....	Blinds.....	16 90	
996		Bullard & Gormley Co.....	Dark lanterns.....	10 50	
997		Chicago Carpet Co.....	Linoleum.....	2 25	
998		Houghton & Miffin Co.....	Silva.....	25 00	
999		A. C. McClurg & Co.....	Books and stationery.....	421 83	
1000		G. E. Stechert.....		116 78	
1001		Am. Society of Mech. Engin'rs.....	Proceedings.....	5 30	
1002		Pratt & Whitney Co.....	Plugs and pulley.....	3 31	
1003		Crane & Co.....	Blue print paper.....	3 98	
1004		Medart Patent Pulley Co.....	Apparatus.....	6 50	
1005		Gulick Tailoring Co.....	Cloths, etc.....	6 75	
1006		M. Lowenstern & Son.....	Linoleum, mats, etc.....	34 63	
1007		Scovill Mfg Co.....	Vaccine boxes.....	7 80	
1008		E. R. Gibbs.....	Guinea pigs.....	6 00	
1009		Miller Harness Co.....	Straps.....	5 25	
1010		Henry Trevelt.....	Hardware, etc.....	224 80	
1011		Electric Appliance Co.....	Wire.....	5 96	
1012		Medart Patent Pulley Co.....	Shafting, etc.....	9 74	
1013		Charles A. Schieren & Co.....	Belting.....	8 22	
1014		Central Electric Co.....	Lamp cord, etc.....	3 16	
1015		School News and Prac. Educ't'r.....	Advertisement.....	25 00	
1016		Columbia Eng. and Electro. Co.....	Half-tone of buildings.....	16 65	
1017		J. W. Butler Paper Co.....	Paper.....	20 00	
1018		Whitall, Tatum & Co.....	Jars.....	5 60	
1019		Mayme Hill.....	Playing piano, November, 1896.....	14 00	
1020		L. P. Breckenridge.....	Expenses.....	62 09	
1021		Isaac Fielding.....	Postage.....	20 00	
1022		F. L. Bills.....		30 00	
1023		Mechanical department.....	Labor and material.....	159 46	
1024		Repair shop.....	" " to Sept. 30, 1896.....	193 29	
1025		Repair shop.....		331 17	
1026		W. O. Krohn.....	Expenses.....	37 47	
1027		A. H. Andrews & Co.....	Hyloplate.....	6 75	
1028		Twin City Electric Co.....	Electric wiring, etc.....	191 50	
1029		D. Appleton & Co.....	Subscription.....	6 00	
1030		Bevis & Co.....	Lumber, etc.....	3 20	
1031		Edward Bush.....	Collecting samples.....	2 00	
1032		Maltby & Wallace Co.....	Hard oil, etc.....	19 27	
1033		Charles A. Besore.....	Cement, etc.....	11 10	
1034		Fuller & Fuller Co.....	Acids, corks, etc.....	95 83	
1035		Kenyon News and Post'l Sub. Co.....	Inking pads.....	2 25	
1036		Champaign Supply Co.....	Pipe and fittings, etc.....	41 58	
1037		D. H. Lloyd & Son.....	Eng'g index, etc.....	11 80	
1038		Price & Sandford.....	Chemical supplies.....	7 00	
1039		Robinson & Burr.....	Range boiler, etc.....	31 50	
1040		R. S. Wilber.....	Drayage.....	39 60	
1041		Champaign Co. Herald.....	Printing programs, etc.....	57 50	
1042		J. D. Phillips.....	Writing diplomas.....	1 50	
1043		Eimer & Amend.....	Tubes, etc.....	48 03	
1044		J. M. White.....	Architect's services and expenses.....	100 00	
1045		W. H. Meeks.....	Feed for Guinea pigs.....	4 00	
1046		S. W. Shattuck, business mgr.....	Expenses.....	22 86	
1047		S. W. Shattuck, business mgr.....	Sundry items.....	96 04	
1048		S. W. Shattuck, business mgr.....	Freight and expressage.....	86 65	
1049		S. W. Shattuck, business mgr.....	Pay-roll of men, November, 1896.....	448 49	
1050		S. W. Shattuck, business mgr.....	Pay-roll of students, November, 1896.....	217 02	
1051	Dec.	31	A. S. Draper.....	Salary, December, 1896.....	583 33
1052		T. J. Burrell.....		225 00	
1053		S. W. Shattuck.....		166 66	
1054		Edward Snyder.....		166 66	
1055		N. C. Ricker.....		191 66	

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
1056	Dec. 31	Ira O. Baker.....	Salary, December, 1896.....	\$183 33
1057	"	S. A. Forbes.....	"	83 33
1058	"	C. W. Rolfe.....	"	175 00
1059	"	D. McIntosh.....	"	50 00
1060	"	A. N. Talbot.....	"	175 00
1061	"	A. W. Palmer.....	"	175 00
1062	"	F. F. Frederick.....	"	158 33
1063	"	S. W. Parr.....	"	175 00
1064	"	H. J. Barton.....	"	166 66
1065	"	Chas. M. Moss.....	"	175 00
1066	"	D. K. Dodge.....	"	83 33
1067	"	L. P. Breckenridge.....	"	166 66
1068	"	David Kinley.....	"	187 50
1069	"	Eugene Davenport.....	"	87 50
1070	"	Arnold Tompkins.....	"	150 00
1071	"	A. P. Carman.....	"	187 50
1072	"	Geo. W. Mvers.....	"	145 83
1073	"	H. E. Summers.....	"	137 50
1074	"	Edgar J. Townsend.....	"	137 50
1075	"	E. B. Greene.....	"	141 66
1076	"	Jas. M. White.....	"	125 00
1077	"	Katharine Merrill.....	"	108 33
1078	"	Wm. O. Krohn.....	"	150 00
1079	"	Wm. H. Van Dervoort.....	"	137 50
1080	"	W. D. Pence.....	"	125 00
1081	"	H. S. Grindley.....	"	100 00
1082	"	T. A. Clark.....	"	125 00
1083	"	B. V. Swensen.....	"	100 00
1084	"	A. H. Daniels.....	"	100 00
1085	"	Percy F. Bicknell.....	"	129 16
1086	"	Geo. D. Fairfield.....	"	108 33
1087	"	Chas. W. Tooke.....	"	100 00
1088	"	Walter H. Jones.....	"	75 00
1089	"	Henry H. Everett.....	"	116 66
1090	"	Fred A. Sager.....	"	91 66
1091	"	Wm. Esty.....	"	100 00
1092	"	Lewis A. Rhoades.....	"	125 00
1093	"	Frank Smith.....	"	100 00
1094	"	C. D. McLane.....	"	91 66
1095	"	P. G. Holden.....	"	50 00
1096	"	J. E. McGilvrey.....	"	100 00
1097	"	Geo. H. Alden.....	"	70 00
1098	"	J. D. Phillips.....	"	90 00
1099	"	R. P. Smith.....	"	120 00
1100	"	Helen E. Butterfield.....	"	75 00
1101	"	Robt. A. Wood.....	"	80 00
1102	"	Geo. A. Goodenough.....	"	80 00
1103	"	Oscar Quick.....	"	75 00
1104	"	Edward J. Lake.....	"	60 00
1105	"	Ells H. Morrison.....	"	100 00
1106	"	Geo. A. Huff.....	"	120 00
1107	"	W. J. Fraser.....	"	33 33
1108	"	Carlton F. Rose.....	"	70 00
1109	"	Edwin H. Pierce.....	"	80 00
1110	"	Joseph C. Blair.....	"	41 66
1111	"	S. J. Temple.....	"	120 00
1112	"	Adeline W. Rowley.....	"	70 00
1113	"	Geo. W. Schmidt.....	"	70 00
1114	"	J. G. Mosier.....	"	70 00
1115	"	Robert C. Vial.....	"	70 00
1116	"	Chas. F. Hottes.....	"	60 00
1117	"	M. S. Ketchum.....	"	70 00
1118	"	Paul Chipman.....	"	70 00
1119	"	A. S. Patterson.....	"	50 00
1120	"	D. H. Carnahan.....	"	40 00
1121	"	Harry Keeler.....	"	50 00
1122	"	W. C. Brenke.....	"	70 00
1123	"	C. B. Clark.....	"	85 00
1124	"	A. R. Curtiss.....	"	85 00
1125	"	Henry Jones.....	"	60 00
1126	"	J. H. Wilson.....	"	60 00
1127	"	Mary Maude Cole.....	"	40 00
1128	"	Chas. H. Garnett.....	"	40 00
1129	"	Jas. H. McKee.....	"	40 00
1130	"	Walter G. Campbell.....	"	40 00
1131	"	Geo. D. Hubbard.....	"	40 00
1132	"	Edward L. Milne.....	"	40 00
1133	"	Geo. F. Anderson.....	"	10 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
1134	Dec. 31	Edward G. Howe.....	Salary, December, 1896 .....	\$150 00
1135	"	N. A. Weston .....	" .....	90 00
1136	"	Lillie A. Clendenin .....	" .....	65 00
1137	"	Chas. N. Cule .....	" .....	75 00
1138	"	R. S. Douglass .....	" .....	75 00
1139	"	W. L. Pillsbury .....	" .....	116 66
1140	"	Geo. W. Graham .....	" .....	100 00
1141	"	M. T. Lindsey .....	" .....	35 00
1142	"	I. H. Allen .....	" .....	35 00
1143	"	F. J. Foote .....	" .....	75 00
1144	"	Lillie Heath .....	" .....	60 00
1145	"	Sue W. Ford .....	" .....	50 00
1146	"	L. A. Boice .....	" .....	50 00
1147	"	W. F. Marker .....	" .....	50 00
1148	"	Albert R. Lee .....	" .....	20 00
1149	"	Joe Morrow .....	" .....	75 00
1150	"	E. W. Justus .....	" .....	50 00
1151	"	C. B. Ewalt .....	" .....	20 00
1152	"	D. McIntosh .....	" .....	50 00
1153	"	C. V. Millar .....	" .....	60 00
1154	"	John Doughty .....	" .....	56 00
1155	"	C. A. Kofoid .....	" .....	100 00
1156	"	Miles Newberry .....	" .....	20 00
1157	"	Lydia M. Hart .....	Drawings .....	13 30
1158	"	Richard Uttenweiler .....	Salary, December, 1896 .....	50 00
1159	"	Henry J. East .....	" .....	40 00
1160	"	W. R. Hoffman .....	" .....	37 00
1161	"	L. G. Lathrop .....	" .....	32 00
1162	"	J. J. Johnson .....	" .....	32 00
1163	"	James T. Shaw .....	" .....	32 00
1164	"	A. S. Golden .....	" .....	32 00
1165	"	Elbert E. Pound .....	" .....	32 00
1166	"	Philip Schwelm .....	" .....	27 00
1167	"	J. Carbutt .....	Lantern slides .....	27 00
1168	"	Champaign Supply Co. ....	Tees .....	1 75
1169	"	J. B. Dickson .....	Copies of proceedings .....	3 75
1170	"	H. Swannell .....	Glycerine, etc. ....	1 45
1171	"	Central Electric Co. ....	Wire and reel .....	23 45
1172	"	<i>Champaign County Herald</i> ..	Letter heads, etc. ....	7 00
1173	"	Wm. W. Payne .....	Subscription .....	2 00
1174	"	A. C. McClurg & Co. ....	Books and stationery .....	241 08
1175	"	Gustav E. Stechert .....	" .....	156 65
1176	"	Frank Smith .....	Class material furnished ..	5 95
1177	"	Whitall, Tatum & Co. ....	Chemicals, etc. ....	16 15
1178	"	Robinson & Burr .....	Repairing blast torches ..	5 35
1179	"	Fuller & Fuller Co. ....	Chemicals, etc. ....	3 24
1180	"	Price & Sandford .....	Boxes .....	30 00
1181	"	C. & U. Phoenix Tel. Co. ....	Services to March 15, 1897 ..	45 00
1182	"	A. P. Wp'g Paper Co. ....	Toilet paper .....	24 00
1183	"	W & L. E. Gurley .....	Chain tapes .....	21 00
1184	"	Eimer & Amend .....	Chemical apparatus .....	102 68
1185	"	Bevis & Co .....	Observer's chair .....	25 00
1186	"	Bausch & Lomb Optical Co. ....	Objectives .....	99 90
1187	"	Mittendorf & Kiler .....	Screen, etc. ....	5 25
1188	"	V. W. Shuck .....	Latches, etc. ....	4 90
1189	"	T. A. Clark .....	Expenses .....	14 80
1190	"	The Western News Co. ....	Subscriptions .....	13 10
1191	"	Shultz Bridge and Iron Co. ....	Blue prints of bridges .....	11 50
1192	"	Kennet W. Blackwell, treasurer ..	Copies of transactions .....	1 50
1193	"	S. F. Patterson, secretary .....	Copies of proceedings .....	4 00
1194	"	Chas. T. Wilder .....	Blue prints .....	41 53
1195	"	Public School Publishing Co. ....	Advertisement to December 31, 1896 ..	12 50
1196	"	J. H. Cook .....	Apparatus .....	5 62
1197	"	E. H. Renner Bros. ....	Hauling coal .....	32 49
1198	"	Chas. A. Schieren & Co. ....	Belting, etc. ....	9 08
1199	"	S. W. Shattuck, business mgr. ....	Freight and express .....	64 01
1200	"	Norton Emery Wheel Co. ....	Emery wheels .....	11 48
	1897.			
1201	Jan. 15	H. M. R. Construction Co. ....	Contract library building .....	7,782 00
1202	"	B. F. Sturtevant Co. ....	Heating contract library building ..	417 00
1203	"	Ricker & White .....	Architects' commission .....	204 97
1204	"	U. & C. Electric St. Ry Co. ....	Gas to Dec. 24, 1896; motor, Jan. 1. ....	717 58
1205	"	Odin Coal Co .....	Coal .....	637 95
1206	"	Werner & Swasey .....	Contract telescope, etc. ....	2,000 00
1207	"	Clemens Riefler .....	Astronomical clock .....	260 19
1208	"	Bullard & Gormley Co. ....	Hardware, etc. ....	11 10
1209	"	W. A. Olmsted .....	Slate .....	1 95

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1210	Jan. 15	Geo. W. Parker & Son.....	Oak tables, etc.....	\$111 20
1211	"	Neperia Chemical Co.....	Chemicals.....	4 25
1212	"	R. I. Morrison.....	Advertisement.....	6 00
1213	"	R. F. Kinsella.....	Glass.....	1 50
1214	"	F. K. Robeson & Bros.....	Bunting.....	3 00
1215	"	Champaign County Printing Co	Printing, etc.....	54 25
1216	"	Oscar A. Richter.....	Apparatus for cement test, etc.	9 00
1217	"	Chas. H. Besly Co.....	Plugs copper wire, etc.....	9 21
1218	"	E. Davenport.....	Expenses.....	26 67
1219	"	J. Manz & Co.....	Half-tones, etc.....	74 54
1220	"	Montgomery Ward & Co.....	Wall tent and fixtures.....	17 88
1221	"	A. C. McClurg & Co.....	Books and stationery.....	95 80
1222	"	G. E. Stechert.....	Books.....	198 62
1223	"	T. H. Castor & Co.....	Encyclopedia.....	4 66
1224	"	Henry Trevett.....	Hardware, etc.....	93 05
1225	"	C. V. Millar.....	Petty expenses.....	3 75
1226	"	L. P. Breckenridge.....	Blue prints.....	8 30
1227	"	M. M. Buck Mfg Co.....	Wheelbarrow.....	10 80
1228	"	Maltby & Wallace Co.....	Iron, etc.....	15 77
1229	"	J. H. Cook.....	Materials.....	2 50
1230	"	J. W. Butler Paper Co.....	Paper.....	4 80
1231	"	Am. Archt & Build'g News Co	Subscription to December 31, 1897.	25 00
1232	"	A. P. Cunningham & Son.....	Drugs, etc.....	2 35
1233	"	Champaign County Herald.....	Blanks.....	3 50
1234	"	The Gazette.....	Printing.....	35 12
1235	"	Machinist Supply Co.....	Wrenches, tubing, etc.....	7 68
1236	"	Frank E. Pitts Mfg & Supply Co	Machine cotton waste.....	7 73
1237	"	Diamond Clasp and Flask Co.....	Brass castings.....	1 60
1238	"	E. O. Vaile.....	School directory.....	1 00
1239	"	J. E. McGilvrey.....	Expenses visiting schools.....	32 24
1240	"	George Allen.....	Services of ram.....	15 00
1241	"	Vermont Farm Machine Co.....	Creamer.....	22 95
1242	"	C. A. Besore.....	Lumber.....	101 79
1243	"	The Champaign Times.....	Printing.....	8 75
1244	"	Mayne A. Hill.....	Playing piano, December, 1896.	14 00
1245	"	Bausch & Lomb Optical Co.....	Rubber tubing, chemicals, etc.....	16 63
1246	"	Thos. Naughton.....	Photographs.....	15 00
1247	"	H. McFadden & Bro.....	Hay, etc.....	2 20
1248	"	Hubbard & Sons.....	Hardware, etc.....	76 13
1249	"	J. H. Coolidge.....	Cows and heifers.....	300 00
1250	"	Robinson & Burr.....	Pipe and fittings, etc.....	38 15
1251	"	T. R. Leal.....	Grading, hauling, etc.....	37 17
1252	"	Champaign Supply Co.....	Pipe, etc.....	7 20
1253	"	J. Hamilton & Son.....	Lumber.....	4 75
1254	"	Dallenbach & Boyle.....	Meat.....	5 25
1255	"	Knowlton & Bennett.....	Paint, lead, etc.....	1 30
1256	"	G. C. Willis.....	Toweling, cheese cloth, etc.....	9 25
1257	"	A. N. Talbot.....	Expenses.....	6 90
1258	"	C. & U. Phoenix Tel. Co.....	Services to December 15, 1896.	3 50
1259	"	Eichberg & Baer.....	Mats and dusters.....	17 50
1260	"	Union Mfg Co.....	Water three months to April 1, 1897.	125 00
1261	"	I. O. Baker.....	Expenses.....	2 65
1262	"	Pantagraph P. & S. Co.....	Matriculation certificates.....	19 50
1263	"	J. D. Carmondy.....	Section of boiler.....	27 00
1264	"	T. H. Trevett.....	Hardware.....	3 34
1265	"	William Price.....	Paints, oils, putty, etc.....	50 35
1266	"	D. H. Loyde & Son.....	Books and supplies.....	10 20
1267	"	Kandler & Gaertner.....	Reading telescope, etc.....	67 50
1268	"	Elmer & Amend.....	Silver tube.....	3 44
1269	"	Henry J. Green.....	Thermometer, etc.....	20 65
1270	"	James B. Clow & Son.....	Pipe, etc.....	45 73
1271	"	F. L. Bills.....	Postage.....	54 50
1272	"	Isaac Fielding.....	Expenses.....	87 00
1273	"	S. W. Shattuck, business mgr.	Sundry items.....	63 01
1274	"	S. W. Shattuck, business mgr.	Pay-rolls of men, December, 1896.	387 89
1275	"	S. W. Shattuck, business mgr.	students.....	172 12
1276	Jan. 30	A. S. Draper.....	Salary for January, 1897.....	583 33
1277	"	T. J. Burrill.....	".....	225 00
1278	"	S. W. Shattuck.....	".....	166 66
1279	"	N. C. Ricker.....	".....	191 66
1280	"	I. O. Baker.....	".....	183 33
1281	"	S. A. Forbes.....	".....	83 33
1282	"	C. W. Rolfe.....	".....	175 00
1283	"	D. McIntosh.....	".....	50 00
1284	"	A. N. Talbot.....	".....	175 00
1285	"	A. W. Palmer.....	".....	175 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1286	1897.			
1287	Jan. 30	F. F. Frederick.....	Salary for January, 1897.....	\$158 33
1288	"	S. W. Parr.....	"	175 00
1289	"	H. J. Barton.....	"	166 66
1289	"	Chas. M. Moss.....	"	175 00
1290	"	D. K. Dodge.....	"	166 66
1291	"	L. P. Breckenridge.....	"	166 66
1292	"	David Kinley.....	"	187 50
1293	"	Eugene Davenport.....	"	91 66
1294	"	Arnold Tompkins.....	"	150 00
1295	"	A. P. Carman.....	"	187 50
1296	"	Geo. W. Myers.....	"	145 83
1297	"	H. E. Summers.....	"	137 50
1298	"	Edgar J. Townsend.....	"	137 50
1299	"	E. B. Green.....	"	141 66
1300	"	James M. White.....	"	125 00
1301	"	Katharine Merrill.....	"	108 38
1302	"	W. O. Krohn.....	"	150 00
1303	"	Wm. H. Van Dervoort.....	"	137 50
1304	"	W. D. Pence.....	"	125 00
1305	"	H. S. Grindley.....	"	100 00
1306	"	T. A. Clark.....	"	125 00
1307	"	B. V. Swenson.....	"	100 00
1308	"	A. H. Daniels.....	"	100 00
1309	"	Percy F. Bicknell.....	"	129 16
1310	"	Geo. D. Fairfield.....	"	108 33
1311	"	Chas. W. Tooke.....	"	100 00
1312	"	Walter H. Jones.....	"	75 00
1313	"	H. H. Everett.....	"	116 66
1314	"	Fred A. Sager.....	"	91 66
1315	"	William Esty.....	"	100 00
1316	"	Lewis A. Rhoades.....	"	125 00
1317	"	Frank Smith.....	"	100 00
1318	"	C. D. McLane.....	"	91 66
1319	"	P. G. Holden.....	"	50 00
1320	"	J. E. McGilvrey.....	"	100 00
1321	"	Geo. H. Alden.....	"	70 00
1322	"	J. D. Phillips.....	"	90 00
1323	"	R. P. Smith.....	"	120 00
1324	"	Helen E. Butterfield.....	"	75 00
1325	"	Robt. A. Wood.....	"	80 00
1326	"	Geo. A. Goodenough.....	"	80 00
1327	"	Oscar Quick.....	"	75 00
1328	"	Edward J. Lake.....	"	60 00
1329	"	Ella H. Morrison.....	"	100 00
1330	"	Geo. A. Huff.....	"	120 00
1331	"	W. J. Fraser.....	"	33 33
1332	"	Carlton R. Rose.....	"	70 00
1333	"	Edwin H. Pierce.....	"	80 00
1334	"	Joseph C. Blair.....	"	41 66
1335	"	S. J. Temple.....	"	120 00
1336	"	Adeline W. Rowley.....	"	70 00
1337	"	Geo. W. Schmidt.....	"	70 00
1338	"	J. G. Mosier.....	"	70 00
1339	"	Robt. C. Vial.....	"	70 00
1340	"	Chas. F. Hottes.....	"	60 00
1341	"	M. S. Ketchum.....	"	70 00
1342	"	Paul Chipman.....	"	70 00
1343	"	A. S. Patterson.....	"	50 00
1344	"	D. H. Carnahan.....	"	40 00
1345	"	Harry Keeler.....	"	50 00
1346	"	W. C. Brenke.....	"	70 00
1347	"	C. B. Clark.....	"	85 00
1348	"	A. R. Curtiss.....	"	85 00
1349	"	Henry Jones.....	"	60 00
1350	"	J. H. Wilson.....	"	60 00
1351	"	Mary Maude Cole.....	"	40 00
1352	"	Chas. H. Garnett.....	"	40 00
1353	"	Jas. H. McKee.....	"	40 00
1354	"	Walter G. Campbell.....	"	40 00
1355	"	Geo. D. Hubbard.....	"	40 00
1356	"	Edward L. Milne.....	"	40 00
1357	"	Geo. F. Anderson.....	"	10 00
1358	"	Edward G. Howe.....	"	150 00
1359	"	N. A. Weston.....	"	90 00
1360	"	Lillie A. Clendenin.....	"	65 00
1361	"	Chas. N. Cole.....	"	75 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1362	Jan. 30	R. S. Douglass .....	Salary for January, 1897.....	\$75 00
1363	"	W. L. Pillsbury .....	"	116 66
1364	"	Geo. W. Graham .....	"	100 00
1365	"	M. T. Lindsey .....	"	35 00
1366	"	I. H. Allen .....	"	35 00
1367	"	F. J. Foote .....	"	75 00
1368	"	Lillie H. ath .....	"	60 00
1369	"	Sue W. Ford .....	"	50 00
1370	"	L. A. Boice .....	"	50 00
1371	"	W. F. Marker .....	"	50 00
1372	"	Albert E. Lee .....	"	20 00
1373	"	Joe Morrow .....	"	75 00
1374	"	E. W. Justus .....	"	30 00
1375	"	C. B. Ewalt .....	"	20 00
1376	"	John Doughty .....	"	50 00
1377	"	Richard Uttenweiler .....	"	50 00
1378	"	Henry J. East .....	"	40 00
1379	"	W. E. Hoffman .....	"	37 00
1380	"	L. G. Lathrop .....	"	32 00
1381	"	J. J. Johnson .....	"	32 00
1382	"	Jas. T. Shaw .....	"	32 00
1383	"	A. S. Golden .....	"	32 00
1384	"	E. E. Pond .....	"	32 00
1385	"	Philp Schwehm .....	"	27 00
1386	"	D. McIntosh .....	"	50 00
1387	"	C. V. Millar .....	"	60 00
1388	"	Chas. A. Kofoid .....	"	100 00
1389	"	Miles Newberry .....	"	20 00
1390	"	Lydia M. Hart .....	Drawings .....	43 35
1391	"	Bausch & Lomb Optical Co .....	Bottles, filters, etc. ....	63 26
1392	"	D. H. Lloyde & Co. ....	Whatman's paper .....	6 75
1393	"	Whitall, Tatum & Co .....	Vials .....	7 79
1394	"	LaFayette Lumber Mfg Co. ....	Oak tables .....	112 50
1395	"	S. N. Wright .....	Heifer calves .....	50 00
1396	"	J. N. Craig .....	Calf .....	2 00
1397	"	Fred W. Honens .....	Concrete cubes, etc .....	12 50
1398	"	Geo. W. Parker & Son .....	Cases and drawers .....	149 00
1399	"	J. T. Wolcott .....	Typewriting .....	20 20
1400	"	J. E. McGilvrey .....	Expenses visiting schools .....	16 28
1401	"	Brunswick-Balke Collender Co .....	Letter press stand and table .....	13 00
1402	"	Electric Appliance Co .....	Wire, etc. ....	39 71
1403	"	Fairbanks, Morse & Co. ....	Scales .....	12 40
1404	"	<i>Engineering Magazine</i> .....	Subscription .....	3 00
1405	"	V. W. Shuck .....	Exchange of stove .....	5 00
1406	"	Dallenbach & Boyle .....	Using calves .....	22 00
1407	"	E. Henry .....	Leads, oils, etc. ....	42 13
1408	"	McIntosh Battery and Opt'l Co .....	Pinch cocks and tubing .....	4 27
1409	"	Chicago Calcium Light Co. ....	Gas .....	5 25
1410	"	Richards & Co. ....	Filters tubing, etc. ....	18 06
1411	"	Detroit Flower Pot Mfg Co. ....	Flower pots .....	13 84
1412	"	Clayton F. Summy .....	Tuning pianos .....	22 50
1413	"	Mittendorf & Kiler .....	Cleaning plates, etc .....	3 00
1414	"	Sheldon Brick Co .....	Sand .....	1 50
1415	"	C. F. Hottes .....	Book .....	1 69
1416	"	Kenyon News and Post'l Sub. Co .....	Subscriptions .....	20 35
1417	"	Dennison Mfg Co. ....	Tags and labels .....	7 36
1418	"	T. Draper .....	Valves .....	8 25
1419	"	Standard Oil Co. ....	Oil .....	11 20
1420	"	Engineering Record .....	Subscription, 1897 .....	5 00
1421	"	Maltby & Wallace Co. ....	Iron, steel, etc. ....	58 27
1422	"	F. B. Stevens .....	Coke basket, etc. ....	8 72
1423	"	Carl Fischer .....	Music .....	8 93
1424	"	The Illini .....	Copies of the Illini .....	20 00
1425	"	Eimer & Amend .....	Mercury tubes .....	3 50
1426	Feb. 15	The H. M. R. Construction Co. ....	Contract, library building .....	6,044 00
1427	"	B. F. Sturtevant Co. ....	Heating contract, library building .....	638 00
1428	"	Ricker & White .....	Architects' commission .....	170 10
1429	"	Odin Coal Co. ....	Coal .....	708 39
1430	"	Nebraska Experiment Station .....	Barometer and case .....	60 00
1431	"	G. C. Willis .....	Crash muslin, etc. ....	32 54
1432	"	<i>Champaign County Herald</i> .....	Printing, etc. ....	51 00
1433	"	D. H. Lloyde & Son .....	Note books, etc. ....	16 60
1434	"	Robinson & Burr .....	Blast torches .....	2 25
1435	"	Empire Steam Laundry .....	Laundrying towels .....	3 18
1436	"	Central Union Telephone Co. ....	Services, March 31, 1897 .....	5 00
1437	"	A. P. Cunningham & Son .....	Scales, stationery, etc. ....	5 05



Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1438	Feb. 15	Petty & Sayers.....	Cases.....	\$29 00
1439	"	J. T. Wolcott.....	Services.....	47 55
1440	"	William Sim Drug Co.....	Curtains, etc.....	10 00
1441	"	R. S. Shepardson.....	Music.....	7 93
1442	"	Fred Medart.....	Wands.....	14 40
1443	"	School News and Prac. Educat'r	Advertisement.....	4 16
1444	"	L. B. Lippincott Co.....	Book.....	13 34
1445	"	Robert Mitchell Furniture Co.	Oak desk.....	16 00
1446	"	Grace Briggs.....	Mounting slides.....	2 85
1447	"	E. H. Renner & Bro.....	Hauling coal, etc.....	112 18
1448	"	Mayme Hill.....	Salary for January, 1897.....	14 00
1449	"	J. E. McGilvrey.....	Expenses visiting schools.....	40 08
1450	"	Arthur W. Palmer.....	Expenses.....	15 41
1451	"	T. R. Leal.....	Hauling and moving trees.....	87 86
1452	"	James B. Clow & Son.....	Pipe hangers, etc.....	19 52
1453	"	Engineering News Publish'g Co	Advertisement.....	6 88
1454	"	J. Manz & Co.....	Half tones.....	18 68
1455	"	E. R. Curtiss.....	Photographs.....	6 00
1456	"	Gutra Percha and Rub'r Mfg Co	Hose.....	25 00
1457	"	A. G. Spalding & Bros.....	Fencing masks, etc.....	15 25
1458	"	Illinois State Journal Co.....	Advertisement.....	5 40
1459	"	W. A. Olmsted Scientific Co.....	Galvanometer, etc.....	36 10
1460	"	Buffalo Forge Co.....	Blast gate, etc.....	80 16
1461	"	Cleveland Public School.....	Subscription.....	5 00
1462	"	G. E. Stechert.....		297 36
1463	"	Charles H. Besly & Co.....	Tubing plate, taps, etc.....	2 92
1464	"	Central Electric Co.....	Lamp sockets, etc.....	9 28
1465	"	The Newark Machine Too IW'ks	Leveling jacks, etc.....	13 29
1466	"	Abe Sebewitz.....	Scrap iron.....	1 65
1467	"	George W. Southwick.....	Wire belt lacing.....	6 00
1468	"	Office Specialty Mfg Co.....	Label holders.....	5 40
1469	"	Mittendorf & Kiler.....	Refinishing furniture, etc.....	40 00
1470	"	Brown & Sharpe Mfg Co.....	Dials, etc.....	12 56
1471	"	Spon & Chamberlain.....	Chart.....	1 00
1472	"	Bausch & Lomb Optical Co.....	Microscopes, covers, etc.....	49 08
1473	"	Warner & Swasey.....	Fitting for telescope, etc.....	14 55
1474	"	Charles Mann.....	Photographs.....	2 12
1475	"	F. F. Frederick.....	Expenses.....	6 65
1476	"	T. H. Trevett.....	Condenser.....	33 55
1477	"	Champaign Supply Co.....	Pipe and fittings, etc.....	13 62
1478	"	Dennison Mfg Co.....	Tags, etc.....	1 83
1479	"	Maltby & Wallace Co.....	Pulleys, steel, etc.....	11 08
1480	"	Frank E. Fitts Mfg and Sup. Co	Silk towels.....	3 90
1481	"	Robinson & Burr.....	Castings, etc.....	3 62
1482	"	Twin City Ice and Cold St'ge Co	Ice.....	1 25
1483	"	Ward Bros.....	Books.....	120 40
1484	"	Lyon & Healey.....	Drum head, etc.....	5 49
1485	"	Diamond Clamp and Flask Co.	Brass castings.....	1 61
1486	"	Bullard & Gormley Co.....	Repairing door spring, etc.....	4 00
1487	"	Detroit Flower Pot Manufact'y	Flower pots.....	10 40
1488	"	Phoenix Carbon Mfg Co.....	Carbon plates.....	1 40
1489	"	Western Bank Note and Eng. Co	Diplomas.....	100 00
1490	"	Newman Clock Co.....	Watchman's clocks.....	100 00
1491	"	Samuel Bartley.....	Rent of land.....	10 00
1492	"	A. M. Woodward.....		25 00
1493	"	Isaac Fielding.....	Postage.....	20 00
1494	"	Frank L. Bills.....		51 25
1495	"	N. W. Graham.....	Expenses.....	25 25
1496	"	S. A. Forbes.....	Petty expenses.....	25 00
1497	"	S. W. Shattuck, business mgr.	Pay-rolls of men, January, 1897.....	501 37
1498	"	S. W. Shattuck, business mgr.	Freight and express.....	140 13
1499	"	S. W. Shattuck, business mgr.	Sundry items.....	34 52
1500	"	S. W. Shattuck, business mgr.	Pay-roll of students, January, 1897.....	141 45
1501	Feb. 27	A. S. Draper.....	Salary for February, 1897.....	583 33
1502	"	T. J. Burrill.....		225 00
1503	"	S. W. Shattuck.....		166 66
1504	"	N. C. Ricker.....		191 66
1505	"	I. O. Baker.....		183 33
1506	"	S. A. Forbes.....		83 33
1507	"	C. W. Rolfe.....		175 00
1508	"	D. McIntosh.....		50 00
1509	"	A. N. Talbot.....		175 00
1510	"	A. W. Palmer.....		175 00
1511	"	F. F. Frederick.....		158 33
1512	"	S. W. Parr.....		175 00
1513	"	H. J. Barton.....		166 66

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1514	1897.	Charles M. Moss .....	Salary for February, 1897.....	\$175 00
1515	Feb. 27	D. K. Dodge.....	"	166 66
1516	"	L. P. Breckenridge.....	"	166 66
1517	"	David Kinley.....	"	187 50
1518	"	E. Davenport.....	"	91 66
1519	"	Arnold Tompkins.....	"	150 00
1520	"	A. P. Carman.....	"	187 50
1521	"	George W. Myers.....	"	145 83
1522	"	H. E. Summers.....	"	137 50
1523	"	E. J. Townsend.....	"	137 50
1524	"	E. B. Greene.....	"	141 66
1525	"	James M. White.....	"	125 00
1526	"	Katherine Merrill.....	"	108 33
1527	"	W. O. Krohn.....	"	150 00
1528	"	W. H. VanDervoort.....	"	137 50
1529	"	W. D. Pence.....	"	125 00
1530	"	H. S. Grindley.....	"	100 00
1531	"	T. A. Clark.....	"	125 00
1532	"	B. V. Swenson.....	"	100 00
1533	"	A. H. Daniels.....	"	100 00
1534	"	Percy F. Bicknell.....	"	129 16
1535	"	George D. Fairfield.....	"	108 33
1536	"	Charles W. Tooke.....	"	100 00
1537	"	Walter H. Jones.....	"	75 00
1538	"	Henry H. Everett.....	"	116 66
1539	"	Fred A. Sager.....	"	91 66
1540	"	William Esty.....	"	100 00
1541	"	Lewis A. Rhoades.....	"	125 00
1542	"	Frank Smith.....	"	100 00
1543	"	C. D. McLane.....	"	91 66
1544	"	P. G. Holden.....	"	50 00
1545	"	J. E. McGilvrey.....	"	100 00
1546	"	George H. Alden.....	"	70 00
1547	"	J. D. Phillips.....	"	90 00
1548	"	R. P. Smith.....	"	120 00
1549	"	Helen E. Butterfield.....	"	75 00
1550	"	Robert A. Wood.....	"	80 00
1551	"	George A. Goodenough.....	"	80 00
1552	"	Oscar Quick.....	"	75 00
1553	"	Edward J. Lake.....	"	60 00
1554	"	Ella H. Morrison.....	"	100 00
1555	"	George A. Huff.....	"	120 00
1556	"	W. J. Fraser.....	"	33 33
1557	"	Carlton R. Rose.....	"	70 00
1558	"	Edwin H. Pierce.....	"	80 00
1559	"	Joseph C. Blair.....	"	41 66
1560	"	S. J. Temple.....	"	120 00
1561	"	Adeline W. Rowley.....	"	70 00
1562	"	George W. Schmidt.....	"	70 00
1563	"	J. G. Mosier.....	"	70 00
1564	"	Robert C. Vial.....	"	70 00
1565	"	Charles F. Hottes.....	"	60 00
1566	"	M. S. Ketchum.....	"	70 00
1567	"	Paul Chipman.....	"	70 00
1568	"	A. S. Patterson.....	"	50 00
1569	"	D. H. Carnahan.....	"	40 00
1570	"	Harry Keeler.....	"	50 00
1571	"	W. C. Brenke.....	"	70 00
1572	"	C. B. Clark.....	"	85 00
1573	"	A. R. Curtiss.....	"	85 00
1574	"	Henry Jones.....	"	60 00
1575	"	J. H. Wilson.....	"	60 00
1576	"	Mary Maude Cole.....	"	40 00
1577	"	Charles H. Garnett.....	"	40 00
1578	"	James H. McKee.....	"	40 00
1579	"	Walter G. Campbell.....	"	40 00
1580	"	George D. Hubbard.....	"	40 00
1581	"	Edward L. Milne.....	"	40 00
1582	"	George F. Anderson.....	"	10 00
1583	"	Edward G. Howe.....	"	150 00
1584	"	N. A. Weston.....	"	90 00
1585	"	Lillie Clendenin.....	"	65 00
1586	"	Charles N. Cole.....	"	75 00
1587	"	R. S. Douglass.....	"	75 00
1588	"	W. L. Pillsbury.....	"	116 66
1589	"	S. W. Shattuck.....	3 months, February, 1897	150 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1590	Feb. 27	L. P. Breckenridge.....	Salary for 3 months, February, 1897	\$62 50
1591	"	George W. Graham.....	February, 1897.....	100 00
1592	"	M. T. Lindsey.....	"	35 00
1593	"	f. H. Allen.....	"	35 00
1594	"	F. J. Foote.....	"	75 00
1595	"	Lillie Heath.....	"	60 00
1596	"	Sue W. Ford.....	"	50 00
1597	"	L. A. Boice.....	"	50 00
1598	"	W. F. Marker.....	"	50 00
1599	"	Albert R. Lee.....	"	20 00
1600	"	Joe Morrow.....	"	75 00
1601	"	C. B. Ewalt.....	"	20 00
1602	"	John Doughty.....	"	50 00
1603	"	Charles A. Kofoid.....	"	100 00
1604	"	Miles Newberry.....	"	20 00
1605	"	C. V. Millar.....	"	60 00
1606	"	D. McIntosh.....	"	50 00
1607	"	Richard Uttenweiler.....	"	50 00
1608	"	Henry J. East.....	"	40 00
1609	"	W. R. Hoffman.....	"	37 00
1610	"	L. G. Lathrop.....	"	32 00
1611	"	J. J. Johnson.....	"	32 00
1612	"	James T. Shaw.....	"	32 00
1613	"	A. S. Golden.....	"	32 00
1614	"	E. E. Pond.....	"	32 00
1615	"	Philip Schwelm.....	"	27 00
1616	"	F. R. Leal.....	Grading, etc.....	26 64
1617	"	B. V. Swenson.....	Signaling device.....	22 00
1618	"	Charles A. Besore.....	Lumber, etc.....	37 92
1619	"	H. Swannell.....	Drugs.....	5 40
1620	"	Pittsburg Reduction Co.....	Sheet aluminum.....	3 43
1621	"	Creamery Package Mfg Co.....	Bottles, etc.....	5 04
1622	"	C. A. Kofoid.....	Petty expenses.....	36 42
1623	"	Henry Trevett.....	Expanded metal.....	25 50
1624	"	Charles T. Wilder.....	Blue prints.....	70 99
1625	"	Eimer & Amend.....	Chemicals, etc.....	990 45
1626	"	Henry J. Greene.....	Thermometers.....	11 25
1627	"	Burlington Venetian Blind Co.....	Blinds.....	9 66
1628	"	J. C. Vaughan.....	Seeds.....	1 73
1629	"	Yale & Towne Mfg Co.....	Locks.....	10 14
1630	"	Hubbard & Sons.....	Zinc, Hardware, etc.....	5 70
1631	"	Walker & Mulliken.....	Stools, chairs, etc.....	30 32
1632	"	Twin City Electric Co.....	Pulleys, etc.....	4 30
1633	"	Thomas Franks.....	Flower pots.....	1 50
1634	"	Buffalo Scale Co.....	Scales.....	48 74
1635	"	Watson Faulkner.....	Hard oil.....	8 75
1636	"	Robinson & Burr.....	Oven.....	12 00
1637	"	C. H. Baddeley.....	Sauce dishes.....	2 40
1638	"	George W. Parker & Son.....	Cases.....	82 54
1639	"	William Price.....	Calcuttining.....	133 25
1640	"	E. H. Sargent & Co.....	Bottles.....	15 97
1641	"	Engineering News Publish'g Co.....	Subscription.....	5 00
1642	"	F. P. Smith Wire and Iron W'ks.....	Wire screens.....	60 00
1643	"	<i>The Illini</i> .....	Advertising six months, to Feb. 1.....	180 00
1644	"	Fauth & Co.....	Lamp and bracket.....	12 50
1645	"	T. H. Trevett.....	Galvanized iron, etc.....	33 80
1646	"	D. H. Lloyd & Son.....	Book.....	10 50
1647	"	S. W. Shattuck, business mgr.....	Expenses.....	42 32
1648	"	<i>The Gazette</i> .....	Printing, etc.....	192 32
1649	"	Gustav E. Stechert.....	Books.....	54 96
1650	"	A. C. McClurg & Co.....	Books and stationery.....	206 47
1651	March 15	H. M. R. Construction Co.....	On library building contract.....	6,030 00
1652	"	Ricker & White.....	Architect's commission.....	150 75
1653	"	F. M. McKay.....	Expenses.....	14 80
1654	"	J. E. Armstrong.....	"	38 30
1655	"	N. B. Morrison.....	"	30 00
1656	"	Alex McLean.....	"	50 46
1657	"	Lucy L. Flower.....	"	69 81
1658	"	S. A. Bullard.....	"	11 50
1659	"	Isaac S. Raymond.....	"	15 50
1660	"	W. L. Pillsbury.....	"	8 01
1661	"	T. J. Burrill.....	"	6 25
1662	"	Cunningham & Boggs.....	Appellate court fees.....	12 50
1663	"	Garvin Machine Co.....	Freight and repairs on miller.....	82 46
1664	"	A. D. Sham'l.....	Prize debate.....	20 00
1665	"	Wesley E. King.....	"	30 00

## Warrants--Continued.

No.	Date.	To whom.	For what	Amount.
	1897.			
1966	March 15	Wallace Craig.....	Prize debate.....	\$50 00
1667	"	Edward Bush.....	Collecting samples of water.....	3 25
1968	"	Sharpless & Winchell.....	Samples of iron ore.....	2 50
1669	"	The Inland Publishing Co.....	Subscription, 1897.....	8 75
1670	"	Mayme Hill.....	Salary, February, 1897.....	14 00
1571	"	The Illio.....	Advertising.....	100 00
1672	"	Smith Premier Typewriter Co.....	Exchange of machine.....	62 50
1673	"	Sangamon Coal Co.....	Coal.....	15 00
1674	"	Wm. T. Comstock.....	Advertisement.....	4 00
1675	"	The Globe Co.....	Cases.....	30 00
1676	"	William Price.....	Shades, brushes, etc.....	17 65
1677	"	Page Belting Co.....	Belting, etc.....	25 54
1678	"	Medart Patent Pulley Co.....	Pulleys.....	15 99
1679	"	Keuffel & Esser Co.....	Railroad curves, etc.....	12 38
1680	"	Buffalo Scale Co.....	Scales.....	44 74
1681	"	Chas. A. Strelinger & Co.....	Calipers, gauges, etc.....	6 25
1682	"	Lyon & Healey.....	Stands.....	3 50
1683	"	Carl Fischer.....	Sheet music.....	9 76
1684	"	Jas. G. Clow & Sons.....	Pipe and fittings.....	57 09
1685	"	Brainard Milling Machine Co.....	Fixtures for machine.....	3 00
1686	"	Office Specialty Mfg Co.....	Cabinet, etc.....	19 30
1687	"	Levi L. Barbour.....	Proceedings, 1806.....	1 25
1688	"	L. V. Manspecker.....	Beans.....	2 88
1689	"	Orr & Lockett Hardware Co.....	Hardware, etc.....	7 15
1690	"	Twin City Electric Co.....	Batteries, labor, fuse block, etc.....	49 45
1691	"	T. R. Leal.....	Grading, hauling, etc.....	57 02
1692	"	J. T. Wolcott.....	Stenographic work.....	28 15
1693	"	Thos. Naughton.....	Photographs.....	1 00
1694	"	Illinois Cent. Coal and Salt Co.....	Coal.....	16 00
1695	"	Bausch & Lomb Optical Co.....	Covers.....	12 00
1696	"	Odin Coal Co.....	Coal.....	485 54
1697	"	Nelsen W. Graham.....	Expenses.....	15 32
1698	"	Mary Turner Carriel.....	.....	12 84
1699	"	S. W. Shattuck, business mgr.....	Pay rolls of men, February, 1897.....	553 40
1700	"	S. W. Shattuck, business mgr.....	Pay roll of students, February, 1897.....	95 24
1701	March 31	A. S. Draper.....	Salary for March, 1897.....	583 33
1702	"	T. J. Burrill.....	.....	225 00
1703	"	S. W. Shattuck.....	.....	166 66
1704	"	N. C. Ricker.....	.....	191 66
1705	"	Ira O. Baker.....	.....	183 33
1706	"	S. A. Forbes.....	.....	83 33
1707	"	C. W. Rolfe.....	.....	175 00
1708	"	D. McIntosh.....	.....	50 00
1709	"	A. N. Talbott.....	.....	175 00
1710	"	A. W. Palmer.....	.....	175 00
1711	"	F. F. Frederick.....	.....	158 33
1712	"	S. W. Parr.....	.....	175 00
1713	"	H. J. Barton.....	.....	166 66
1714	"	Chas. M. Moss.....	.....	175 00
1715	"	D. K. Dodge.....	.....	166 66
1716	"	L. P. Breckenridge.....	.....	166 66
1717	"	David Kinley.....	.....	187 50
1718	"	Eugene Davenport.....	.....	91 66
1719	"	Arnold Tompkins.....	.....	150 00
1720	"	A. P. Carman.....	.....	187 50
1721	"	Geo. W. Myers.....	.....	145 83
1722	"	H. E. Summers.....	.....	137 50
1723	"	Edgar J. Townsend.....	.....	137 50
1724	"	E. B. Greene.....	.....	141 66
1725	"	James M. White.....	.....	125 00
1726	"	Katherine Merrill.....	.....	108 33
1727	"	Wm. O. Krohn.....	.....	150 00
1728	"	Wm. H. VanDervoort.....	.....	137 50
1729	"	W. D. Pence.....	.....	125 00
1730	"	H. S. Grindley.....	.....	100 00
1731	"	T. A. Clark.....	.....	125 00
1732	"	B. V. Swenson.....	.....	100 00
1733	"	A. H. Daniels.....	.....	100 00
1734	"	Percy F. Bicknell.....	.....	129 16
1735	"	Geo. D. Fairfield.....	.....	108 33
1736	"	Chas. W. Tooke.....	.....	100 00
1737	"	Walter H. Jones.....	.....	75 00
1738	"	Henry H. Everett.....	.....	116 66
1739	"	Fred A. Sager.....	.....	91 66
1740	"	William Estey.....	.....	100 00
1741	"	Lewis A. Rhoades.....	.....	125 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1742	1897, March 31	Frank Smith .....	Salary for March, 1897.....	\$100 00
1743	"	C. D. McLane.....	"	91 66
1744	"	P. G. Holden.....	"	50 00
1745	"	J. E. McGilvrey.....	"	100 00
1746	"	Geo. H. Alden.....	"	70 00
1747	"	J. D. Phillips.....	"	90 00
1748	"	R. P. Smith.....	"	120 00
1749	"	Helen E. Butterfield.....	"	75 00
1750	"	Robert A. Wood.....	"	80 00
1751	"	Geo. A. Goodenough.....	"	80 00
1752	"	Oscar Quick.....	"	75 00
1753	"	Edward J. Lake.....	"	60 00
1754	"	Ella H. Morrison.....	"	100 00
1755	"	Geo. A. Huff.....	"	120 00
1756	"	W. J. Fraser.....	"	33 33
1757	"	Carlton R. Rose.....	"	70 00
1758	"	Edwin H. Pierce.....	"	80 00
1759	"	Joseph C. Blair.....	"	41 66
1760	"	S. J. Temple.....	"	120 00
1761	"	Adeline W. Rowley.....	"	70 00
1762	"	Geo. W. Schmidt.....	"	70 00
1763	"	J. G. Mosier.....	"	70 00
1764	"	Robert C. Vial.....	"	70 00
1765	"	Chas. F. Hottes.....	"	60 00
1766	"	M. S. Ketchum.....	"	70 00
1767	"	Paul Chipman.....	"	70 00
1768	"	A. S. Patterson.....	"	50 00
1769	"	D. H. Carnahan.....	"	40 00
1770	"	Harry Keeler.....	"	50 00
1771	"	W. C. Brenke.....	"	70 00
1772	"	C. B. Clark.....	"	85 00
1773	"	A. R. Curtis.....	"	85 00
1774	"	Henry Jones.....	"	60 00
1775	"	J. H. Wilson.....	"	60 00
1776	"	Mary Maude Cole.....	"	40 00
1777	"	Chas. H. Garnett.....	"	40 00
1778	"	Jas. H. McKee.....	"	40 00
1779	"	Walter G. Campbell.....	"	40 00
1780	"	Geo. D. Hubbard.....	"	40 00
1781	"	Edward L. Milne.....	"	40 00
1782	"	Geo. F. Anderson.....	"	10 00
1783	"	Edward G. Howe.....	"	150 00
1784	"	N. A. Weston.....	"	90 00
1785	"	Lillie A. GlenJenin.....	"	65 00
1786	"	Chas. N. Nole.....	"	75 00
1787	"	R. S. Douglass.....	"	75 00
1788	"	W. L. Pillsbury.....	"	116 66
1789	"	Geo. W. Graham.....	"	100 00
1790	"	M. T. Lindsey.....	"	35 00
1791	"	I. H. Allen.....	"	35 00
1792	"	F. J. Foote.....	"	75 00
1793	"	Lillie Heath.....	"	60 00
1794	"	Sue W. Ford.....	"	50 00
1795	"	L. A. Boice.....	"	50 00
1796	"	W. F. Marker.....	"	50 00
1797	"	Albert R. Lee.....	"	20 00
1798	"	Joe Morrow.....	"	75 00
1799	"	O. B. Ewalt.....	"	20 00
1800	"	John Doughty.....	"	50 00
1801	"	Richard Uttenwiler.....	"	50 00
1802	"	Henry J. East.....	"	40 00
1803	"	W. R. Hoffman.....	"	37 00
1804	"	L. G. Lathrop.....	"	32 00
1805	"	J. J. Johnson.....	"	32 00
1806	"	James T. Shaw.....	"	32 00
1807	"	A. S. Golden.....	"	32 00
1808	"	E. E. Pond.....	"	32 00
1809	"	Philip Schwehm.....	"	27 00
1810	"	Chas. A. Kofoid.....	"	100 00
1811	"	Miles Newberry.....	"	20 00
1812	"	D. McIntosh.....	"	50 00
1813	"	C. V. Millar.....	"	60 00
1814	"	H. M. R. Construction Co.....	Recutting inscription.....	60 00
1815	"	Kny-Scheerer Co.....	Apparatus.....	6 45
1816	"	G. N. Carman, treasurer.....	Membership fee, 1897.....	3 00
1817	"	Frost & Adams.....	Easel.....	2 35

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1818	March - 3	Eastman Kodak Co.....	Kodak and supplies .....	\$18 90
1819	"	B. Mercil .....	Shafting .....	14 40
1820	"	J. D. Green .....	Work on plankton net .....	1 00
1821	"	Chas. W. Groves .....	Directory .....	5 00
1822	"	J. H. Pollard .....	Encyclopedia .....	15 00
1823	"	F. L. Bills .....	Postage .....	20 00
1824	"	Isaac Fielding .....	.....	100 00
1825	"	J. E. McGilvery .....	Expenses visiting schools .....	83 69
1826	"	Buff & Berger .....	Adjusting transit .....	9 65
1827	"	Eimer & Amend .....	Tubing .....	10 20
1828	"	Chicago Laboratory & Scale Co	Table clamps, etc .....	14 50
1829	"	Electric Appliance Co .....	Magnetic wire, etc. ....	27 42
1830	"	Walter H. Jones .....	Music .....	12 11
1831	"	Henry Heil Chemical Co .....	Platinum wire, balances, etc	24 65
1832	"	<i>Champaign Times</i> .....	Circulars .....	2 50
1833	"	C. & U. Phoenix Telephone Co.	Services to June 15 .....	45 00
1834	"	<i>Champaign County Herald</i> .....	Printing programs .....	54 50
1835	"	Champaign County Print. Co. .	Envelopes, circulars, etc ..	20 40
1836	"	Phillips Bros. ....	Copies of cut .....	10 00
1837	"	<i>School News &amp; Prac. Educator</i>	Advertisement .....	4 16
1838	"	A. G. Spalding & Bros. ....	Fencing belts .....	6 50
1839	"	G. W. Sheldon & Co .....	Freight and custom fees ..	12 05
1840	"	C. A. Hunt .....	Glass .....	3 00
1841	"	Singbusch & Stoltey .....	Carrots .....	2 00
1842	"	Urbana Brick Co .....	Brick .....	4 00
1843	"	Price & Sandford .....	Polishine, etc .....	2 25
1844	"	W. F. Marker .....	Paper fasteners .....	10 50
1845	"	Mittendorf & Kiler .....	Repairing chairs, etc .....	15 95
846	"	C. N. Clark & Co .....	Stone .....	5 50
1847	"	<i>The Gazette</i> .....	Printing circulars, etc .....	34 40
1848	"	Buffalo Forge Co .....	Motor and disc wheel .....	177 38
1849	"	A. C. McClurg & Co .....	Books and stationery .....	86 76
1850	"	E. H. Renner & Bro .....	Hauling coal, etc .....	143 51
1851	"	Chas. A. Besore .....	Coal .....	37 71
1852	"	Standard Oil Co .....	Oil .....	10 82
1853	"	Richards & Co .....	Beakers, tubes, etc .....	69 31
1854	"	Weston Electrical Inst Co .....	Repairing v. ltmeter .....	25 30
1855	"	Gleason & Bailey Mfg Co .....	Bushings, plugs, etc .....	9 60
1856	"	Williams, White & Co .....	Steel and iron .....	15 45
1857	"	<i>Champaign County Herald</i> .....	Pamphlets .....	20 50
1858	"	Andus & Church .....	Pamphlet cases, etc .....	2 65
1859	"	Crosby S't'm Gauge & Valve Co	Mercury guage, etc .....	19 06
1860	"	W. P. Buchanan .....	Photographs .....	2 50
1861	"	Kandler & Gaertner .....	Circular glass discs .....	6 00
1862	"	Jones & Laughlins .....	Steel and beams .....	12 02
1863	"	James B. Clow & Sons .....	Taps .....	6 60
1864	"	Robinson & Burr .....	Supplies, etc .....	11 61
1865	"	Hubbard & Sons .....	Hose, etc .....	5 28
1866	"	R. R. Bowker .....	Literary Index .....	3 68
1867	"	Astronomical Soc. of Pacific ..	Subscription .....	5 00
1868	"	A. S. Aloe & Co .....	Sewer computer .....	9 00
1869	"	Knowlton & Bennett .....	Brushes, etc .....	9 60
1870	"	Builders Iron Foundry .....	Tube .....	75 00
1871	"	W. A. Olmsted Scientific Co .....	Concave, convex mirrors, etc	29 00
1872	"	Central Electric Co .....	Lamp sockets .....	2 85
1873	"	J. W. Butler Paper Co .....	Paper .....	3 35
1874	"	Chicago Bridge & Iron Co .....	Bolts .....	7 80
1875	"	Edward G. Howe .....	Expenses .....	10 11
1876	"	B. T. Batsford .....	Books .....	111 93
1877	"	Bernh Liebsich .....	.....	82 37
1878	"	E. O. Vaile .....	Advertising .....	10 00
1879	"	Public School Publishing Co .....	Advertising to March 31, 1897	12 50
1880	"	Fuller & Fuller Co .....	Alkali .....	3 30
1881	"	Library Bureau .....	Book case card index, etc ..	65 00
1882	April 16	H. M. R. Construction Co .....	Contract and extras library bldg.	6,130 40
1883	"	Ricker & White .....	Architects' commission .....	168 92
1884	May 15	H. M. R. Construction Co .....	Contract library building, etc	6,264 25
1885	"	Chicago Arch'l Iron Works .....	Ornamental iron work .....	2,720 00
1886	"	Ricker & White .....	Architects' commission .....	214 63
1887	"	W. H. Van Dervoort .....	Expenses .....	9 78
1888	"	W. H. Jones .....	.....	10 00
1889	"	Eugene Davenport .....	.....	13 15
1890	"	W. L. Pillsbury .....	.....	47 82
1891	"	S. W. Shattuck .....	.....	85 05
1892	"	F. L. Bills .....	Postage .....	120 00
1893	"	Isaac Fielding .....	.....	53 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1894	1897.			
1894	May 15	E. H. Renner & Bro.	Hauling coal, carriage hire	\$50 76
1895	"	T. R. Leal	Hauling, etc.	48 75
1896	"	S. W. Shattuck, business mgr.	Sundry items	135 56
1897	"	S. W. Shattuck, business mgr.	Freightage	148 96
1898	"	S. W. Shattuck, business mgr.	Expressage	163 33
1899	"	S. W. Shattuck, business mgr.	Pay-rolls of men. March, 1897.	695 45
1900	"	S. W. Shattuck, business mgr.	students,	141 07
1901	May 31	A. S. Draper	Salary, April, 18 7.	553 33
1902	"	T. J. Burrill	"	225 00
1903	"	S. W. Shattuck	"	166 66
1904	"	N. C. Ricker	"	191 66
1905	"	Ira O. Baker	"	183 33
1906	"	S. A. Forbes	"	83 33
1907	"	C. W. Rolfe	"	175 00
1908	"	D. McIntosh	"	50 00
1909	"	A. N. Talbot	"	175 00
1910	"	A. W. Palmer	"	175 00
1911	"	F. F. Frederick	"	158 33
1912	"	S. W. Parr	"	175 00
1913	"	H. J. Barton	"	166 66
1914	"	Chas. M. Moss	"	175 00
1915	"	D. K. Dodge	"	166 66
1916	"	L. P. Breckenridge	"	166 66
1917	"	David Kinley	"	187 50
1918	"	E. Davenport	"	91 66
1919	"	Arnold Tompkins	"	150 00
1920	"	A. P. Carman	"	187 50
1921	"	G. W. Myers	"	145 83
1922	"	H. E. Summers	"	137 50
1923	"	Edgar J. Townsend	"	137 50
1924	"	E. B. Greene	"	141 66
1925	"	Jas. M. White	"	125 00
1926	"	Katharine Merrill	"	108 33
1927	"	W. O. Krohn	"	150 00
1928	"	W. H. Van Dervoort	"	137 50
1929	"	W. D. Pence	"	125 00
1930	"	H. S. Grindley	"	100 00
1931	"	T. A. Clark	"	125 00
1932	"	R. V. Swenson	"	100 00
1933	"	A. H. Daniels	"	100 00
1934	"	Percy F. Bicknell	"	129 16
1935	"	Geo. D. Fairfield	"	108 33
1936	"	Chas. W. Tooke	"	100 00
1937	"	Walter H. Jones	"	75 00
1938	"	Henry H. Everett	"	116 66
1939	"	Fred A. Sager	"	91 66
1940	"	William Esty	"	100 00
1941	"	Lewis A. Rhoades	"	125 00
1942	"	Frank Smith	"	100 00
1943	"	C. D. McLane	"	91 66
1944	"	P. G. Holden	"	50 00
1945	"	J. E. McGilvrey	"	100 00
1946	"	Geo. H. Alden	"	70 00
1947	"	J. D. Phillips	"	90 00
1948	"	R. P. Smith	"	120 00
1949	"	Helen E. Butterfield	"	75 00
1950	"	Robt. A. Wood	"	80 00
1951	"	G. A. Goodenough	"	80 00
1952	"	Oscar Quick	"	75 00
1953	"	Edward J. Lake	"	60 00
1954	"	Ella H. Morrison	"	100 00
1955	"	Geo. A. Huff	"	120 00
1956	"	W. J. Fraser	"	33 33
1957	"	Carlton R. Rose	"	70 00
1958	"	Edwin H. Pierce	"	80 00
1959	"	J. C. Blair	"	41 56
1960	"	Adeline W. Rowley	"	70 00
1961	"	Geo. W. Schmidt	"	70 00
1962	"	J. G. Mosier	"	70 00
1963	"	Robt. C. Vial	"	70 00
1964	"	Chas. F. Hottes	"	60 00
1965	"	M. S. Ketchum	"	70 00
1966	"	Paul Chipman	"	70 00
1967	"	A. S. Patterson	"	50 00
1968	"	D. H. Carnahan	"	40 00
1969	"	Harry Keeler	"	50 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1970	May 31	W. C. Brenke.....	Salary, April, 1897.....	\$70 00
1971	"	C. B. Clark.....	"	85 00
1972	"	A. R. Curtiss.....	"	85 00
1973	"	Henry Jones.....	"	60 00
1974	"	J. H. Wilson.....	"	60 00
1975	"	Mary M. Cole.....	"	40 00
1976	"	Chas. H. Garnett.....	"	40 00
1977	"	Jas. H. McKee.....	"	40 00
1978	"	Walter G. Campbell.....	"	40 00
1979	"	Geo. D. Hubbard.....	"	40 00
1980	"	Edward L. Milne.....	"	40 00
1981	"	Geo. F. Anderson.....	"	10 00
1982	"	Edward G. Howe.....	"	150 00
1883	"	N. A. Weston.....	"	90 00
1884	"	Lillie A. Clendenin.....	"	65 00
1885	"	Chas. N. Cole.....	"	75 00
1886	"	R. S. Douglass.....	"	75 00
1887	"	W. L. Pillsbury.....	"	116 68
1888	"	Geo. W. Graham.....	"	100 00
1889	"	M. T. Lindsey.....	"	35 00
1890	"	I. H. Allen.....	"	35 00
1891	"	F. J. Foote.....	"	75 00
1892	"	Lillie Heath.....	"	60 00
1893	"	Sue W. Ford.....	"	50 00
1894	"	L. A. Boice.....	"	50 00
1895	"	W. F. Marker.....	"	50 00
1896	"	Albert R. Lee.....	"	20 00
1897	"	Joe Morrow.....	"	75 00
1898	"	C. B. Ewalt.....	"	20 00
1899	"	John Doughty.....	"	50 00
2000	"	D. McIntosh.....	"	50 00
2001	"	C. V. Millar.....	"	60 00
2002	"	Richard Uttenweiler.....	"	50 00
2003	"	Henry J. East.....	"	40 00
2004	"	W. R. Hoffman.....	"	37 00
2005	"	L. G. Lathrop.....	"	32 00
2006	"	J. J. Johnson.....	"	32 00
2007	"	Jas. T. Shaw.....	"	32 00
2008	"	A. S. Golden.....	"	32 00
2009	"	E. E. Pound.....	"	32 00
2010	"	Philip Schwehm.....	"	27 00
2011	"	C. A. Kofoid.....	"	100 00
2012	"	Miles Newberry.....	"	20 00
2013	"	C. A. Kofoid.....	Class materials.....	3 27
2014	"	Frank Smith.....	Expenses.....	4 95
2015	"	W. J. Fraser.....	Freight.....	2 71
2016	"	Lillie M. Hart.....	Drawings.....	32 20
2017	"	J. M. Chase.....	Labor and material.....	7 63
2018	"	C. H. Baddley.....	Dishes.....	3 40
2019	"	L. H. House & Co.....	Apples, etc.....	2 50
2020	"	Price & Sandford.....	Comb, etc.....	1 25
2021	"	Champaign County Ptg Co.....	Printing library slips.....	3 50
2022	"	Champaign Supply Co.....	Pipe tees, etc.....	2 71
2023	"	Knowlton & Bennett.....	Indexes, blanks, etc.....	8 50
2024	"	V. W. Shuck.....	Plumb and level, etc.....	3 30
2025	"	<i>The Technograph</i> .....	Subscriptions.....	4 75
2026	"	T. H. Trevett.....	Night latch and wire, etc.....	11 24
2027	"	<i>The Illio</i> .....	Cuts.....	25 00
2028	"	A. E. Wuesteman.....	Knives and forks.....	44 00
2029	"	Consolidated Coal Co.....	Coal.....	45 75
2030	"	M. M. Buck Mfg Co.....	Wheelbarrows.....	7 50
2031	"	N. M. Glatfelter.....	Materials.....	4 50
2032	"	Chicago Calcium Light Co.....	Gas.....	5 48
2033	"	Creamery Package Mfg Co.....	Brushes, etc.....	6 27
2034	"	Berkefeld Filter Co.....	Filters.....	4 00
2035	"	Eimer & Amend.....	Filters, etc.....	9 63
2036	"	John F. Tenney Co.....	Rubber stamps.....	2 13
2037	"	E. O. Vaile.....	Directories.....	3 00
2038	"	William J. Boehm.....	Tubes, microtones.....	17 10
2039	"	W. A. Olmsted Scientific Co.....	Lenses and rods.....	3 07
2040	"	Charles H. Besly & Co.....	Iron wire, etc.....	9 60
2041	"	J. C. Vaughan.....	Grass seed, etc.....	18 86
2042	"	George T. Johnson.....	Toilet paper.....	12 00
2043	"	McIntosh Battery and Opt'l Co.....	Meter sticks.....	2 25
2044	"	Clara E. Cummings.....	Subscription.....	5 50
2045	"	E. H. Sargent & Co.....	Bottles, chemicals, etc.....	5 64



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
2046	1897.			
2047	May 31	The Smith Prem'r Typew'r't'r Co	Hard platen.....	\$5 00
2048	"	National Meter Co.....	Meter.....	1 60
2049	"	Harry Falkenan.....	Books.....	1 10
2050	"	J. E. McGilvrey.....	Expenses visiting schools.....	6 50
2051	June 15	T. R. Leal.....	Grading, hauling, etc.....	200 79
2052	"	S. A. Bullard.....	Expenses to board meeting.....	99 87
2053	"	F. M. McKay.....	".....	18 75
2054	"	Alex. McLean.....	".....	27 50
2055	"	Lucy L. Flower.....	".....	58 32
2056	"	A. S. Draper.....	Expenses to May 18, 1897.....	149 09
2057	"	Melvil Dewey.....	Commencement orator.....	100 00
2058	"	John S. Switzer.....	Expenses of trip.....	13 70
2059	"	Austin H. Brown.....	".....	12 70
2060	"	F. L. Bills.....	Postage.....	10 00
2061	"	Isaac Fielding.....	".....	80 00
2062	"	H. M. R. Construction Co.....	Contract and extras on building.....	5,622 50
2063	"	Ricker & White.....	Architects' commission.....	178 42
2064	"	Richards & Co.....	Apparatus for gas analysis.....	83 12
2065	"	Frankford Steel Co.....	Steel spindle, etc.....	30 84
2066	"	Phillips Bros.....	Printing report.....	55 00
2067	"	Edward Bush.....	Collecting samples of water.....	2 25
2068	"	Pantagraph Print'g and Sta. Co	Printing report of water survey.....	385 83
2069	"	T. J. Burrill.....	Expenses.....	12 20
2070	"	Arthur W. Palmer.....	".....	6 76
2071	"	W. L. Pillsbury.....	".....	60 08
2072	"	S. W. Shattuck, business mgr.	".....	69 76
2073	"	S. W. Shattuck, business mgr.	Freight and express.....	58 19
2074	"	S. W. Shattuck, business mgr.	Sundry items.....	86 93
2075	"	S. W. Shattuck, business mgr.	Pay-rolls of students, April and May	203 91
2076	"	S. W. Shattuck, business mgr.	men.....	867 93
2077	"	A. S. Draper.....	Salary, May and June, 1897.....	1,166 66
2078	"	T. J. Burrill.....	".....	450 00
2079	"	S. W. Shattuck.....	".....	333 32
2080	"	N. C. Ricker.....	".....	383 32
2081	"	Ira O. Baker.....	".....	366 66
2082	"	S. A. Forbes.....	".....	166 66
2083	"	C. W. Rolfe.....	".....	350 00
2084	"	D. McIntosh.....	".....	100 00
2085	"	A. N. Talbot.....	".....	350 00
2086	"	A. W. Palmer.....	".....	350 00
2087	"	F. F. Frederick.....	".....	316 66
2088	"	S. W. Parr.....	".....	350 00
2089	"	H. J. Barton.....	".....	333 32
2090	"	C. M. Moss.....	".....	350 00
2091	"	D. K. Dodge.....	".....	333 32
2092	"	L. P. Breckenridge.....	".....	333 32
2093	"	David Kinley.....	".....	375 00
2094	"	E. Davenport.....	".....	183 32
2095	"	Arnold Tompkins.....	".....	300 00
2096	"	A. P. Carman.....	".....	375 00
2097	"	George W. Myers.....	".....	291 66
2098	"	H. E. Summers.....	".....	275 00
2099	"	Edgar J. Townsend.....	".....	275 00
2100	"	E. B. Greene.....	".....	283 32
2101	"	J. M. White.....	".....	250 00
2102	"	Katharine Merrill.....	".....	216 66
2103	"	W. O. Krohn.....	".....	300 00
2104	"	W. H. VanDervoort.....	".....	275 00
2105	"	W. D. Pence.....	".....	250 00
2106	"	H. S. Grindley.....	".....	200 00
2107	"	T. A. Clark.....	".....	250 00
2108	"	B. V. Swenson.....	".....	200 00
2109	"	A. H. Daniels.....	".....	200 00
2110	"	Percy F. Bicknell.....	".....	258 32
2111	"	George D. Fairfield.....	".....	215 66
2112	"	Charles W. Tooke.....	".....	200 00
2113	"	Walter H. Jones.....	".....	150 00
2114	"	Henry H. Everett.....	".....	233 32
2115	"	Fred A. Sager.....	".....	183 32
2116	"	William Esty.....	".....	200 00
2117	"	Lewis A. Rhoades.....	".....	250 00
2118	"	Frank Smith.....	".....	200 00
2119	"	C. D. McLane.....	".....	183 32
2120	"	P. G. Holden.....	".....	100 00
2121	"	J. E. McGilvrey.....	".....	200 00
2122	"	George H. Alden.....	".....	140 00



Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
2198	1897. June	30 C. A. Shamel .....	Printing circulars.....	25 00
2199	"	" Ellwanger & Barry.....	Seeds, etc.....	22 53
2200	"	" T. R. Leal.....	Hauling and grading, etc.....	54 79

STATE LABORATORY OF NATURAL HISTORY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
1	1896. July	15 S. W. Shattuck, Business M'g'r	Expressage.....	\$4 90
2	"	" B. Zelle .....	Office rent, April to June, 1896 .....	26 00
3	"	" W. H. Van Dervoort .....	Steam launch .....	28 41
4	"	" Geo. B. Carpenter & Co.....	Dip nets .....	3 00
5	"	" Richard Kny & Co.....	Chemical supplies .....	12 50
6	"	" J. M. Schilling .....	Grocer's supplies .....	27 90
7	"	" W. G. Stocker .....	Labor on launch .....	5 36
8	"	" E. B. Forbes .....	Expenses at Havana.....	15 95
9	"	" American Express Co.....	Expressage for June, 1896 .....	3 98
10	"	" Thayer & Jackson.....	Reporter's note books .....	1 00
11	"	" Western Union Telegraph Co.	Telegrams for June, 1896 .....	1 28
12	"	" E. H. Sargent & Co.....	Chemical supplies .....	5 00
13	"	" R. M. Davis .....	Photographic material .....	1 34
14	"	" H. Swannell.....	Chemical supplies.....	2 20
15	"	" Henry Trevett.....	Hardware .....	41 30
16	"	" Lydia M. Hart.....	Drawings.....	10 75
17	"	" Charles T. Wilder.....	Services in laboratory.....	13 30
18	"	" W. A. Snow .....	Expenses .....	12 25
19	"	" H. O. Woodworth .....	Services and expenses .....	102 00
20	"	" Central Union Telephone Co.	to September 30, 1896 .....	4 50
21	July	21 W. G. Johnson.....	Salary for June, 1896.....	100 00
22	"	" H. C. Forbes .....	" " and July, 1896 .....	166 66
23	"	" Mary J. Snyder.....	" " " .....	125 00
24	"	" Ernest B. Forbes .....	" " " .....	80 00
25	"	" Charles A. Hart.....	" " " .....	125 00
26	July	31 C. A. Kofoid.....	" " " .....	200 00
27	"	" Adolph Hempel.....	" " " .....	120 00
28	"	" Frank Smith.....	" " " .....	100 00
29	"	" Miles Newberry.....	" " " .....	91 50
30	"	" Harlen Scott .....	" " " .....	22 50
31	"	" W. A. Snow .....	" " " .....	75 00
32	Aug.	4 Lemeke & Buechner .....	Books.....	2 68
33	"	" National Railway Pub. Co.....	Subscription .....	5 00
34	"	" E. H. Sargent & Co.....	Corks.....	3 75
35	"	" W. H. Allen.....	Boat supplies .....	11 75
36	"	" H. W. Rokker .....	Printing bulletin.....	23 00
37	"	" Science.....	Subscription .....	5 00
38	"	" S. A. Forbes.....	Salary for year ending May 31, 1896.	62 50
39	"	" .....	Expenses.....	53 30
40	"	" Western Union Telegraph Co.	Telegrams.....	1 92
41	"	" S. A. Forbes .....	Books.....	103 00
42	"	" American Express Co.....	Expressage.....	7 66
43	"	" Frank L. Bills.....	Postage.....	20 00
44	"	" The Harris Publishing Co.....	Subscription .....	6 00
45	"	" National Typewriter Exchange	Ribbons .....	2 33
46	"	" Max Weg.....	Books.....	13 73
47	"	" E. T. Cresson .....	Subscription .....	4 00
48	"	" L. S. Foster .....	Books.....	14 00
49	"	" Ed Gill.....	Wood, coal, etc.....	9 95
50	"	" J. M. Schilling.....	Supplies.....	6 30
51	Aug.	15 Charles T. Wilder.....	Work.....	33 96
52	"	" Lydia M. Hart.....	Drawings .....	7 45
53	"	" H. C. Forbes .....	Expenses.....	1 90
54	Aug.	31 C. A. Kofoid.....	Salary, August, 1896.....	100 00
55	"	" Frank Smith.....	" " .....	100 00
56	"	" H. C. Forbes.....	" " .....	83 33
57	"	" Charles A. Hart.....	" " .....	62 50
58	"	" W. A. Snow .....	" " .....	75 00
59	"	" Adolph Hempel.....	" " .....	60 00
60	"	" Mary J. Snyder.....	" " .....	62 50
61	"	" Harlen Scott .....	" " .....	12 50

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
62	Aug.	31 Ernest B. Forbes.....	Salary, August, 1896.....	\$40 00
63	"	Miles Newberry.....	"	51 50
64	"	Bertha V. H. Forbes.....	Work in laboratory.....	10 50
65	"	S. A. Forbes.....	Salary, 3 months to date.....	62 50
66	"	Ed Gill.....	Coal.....	3 50
67	"	O. H. Harpham.....	Hardware.....	5 40
68	"	H. C. Forbes.....	Expenses.....	10 00
69	"	Mechanical Department.....	Labor and material, making net.....	31 15
70	"	E. E. Kessler.....	Work and material.....	9 95
71	"	Sarah E. Webster.....	Work.....	11 30
72	"	Lydia M. Hart.....	Drawings.....	22 05
73	"	S. A. Forbes.....	Expenses.....	7 60
74	"	W. A. Snow.....	"	2 35
75	"	Ernest B. Forbes.....	"	29 95
76	"	Bausch & Lomb Opt'l Co.....	Slides, test tubes, etc.....	2 78
77	"	Western Union Telegraph Co.....	Telegrams.....	1 00
78	"	American Express Co.....	Expressage.....	1 65
79	Sept.	30 B. Zelle.....	Office rent, September, 1896.....	22 00
80	"	R. S. Wilber.....	Drayage.....	9 90
81	"	Geo. E. M. Hose.....	Care of boat and repairs.....	6 00
82	"	B. F. Gump.....	Cloth.....	7 56
83	"	M. M. Clark.....	Hard coal.....	4 22
84	"	Lydia M. Hart.....	Drawings.....	13 10
85	"	J. M. Schilling.....	Supplies.....	5 50
86	"	C. A. Kofoid.....	Book.....	1 00
87	"	H. W. Rokker.....	Printing.....	57 60
88	"	E. F. Bigelow.....	Books.....	2 75
89	"	Geo. W. Parker & Son.....	Bulletin board frame.....	4 10
90	"	A. A. Beal & Co.....	Plates.....	35 00
91	"	H. C. Forbes.....	Salary, September, 1896.....	83 33
92	"	Mary J. Snyder.....	"	62 50
93	"	C. A. Hart.....	"	62 50
94	"	C. A. Kofoid.....	Part of salary, September, 1896.....	72 15
95	"	W. A. Snow.....	Salary, September, 1896.....	75 00
96	"	Harlen Scott.....	"	12 50
97	Oct.	15 S. A. Forbes.....	Expenses.....	48 99
98	"	Lydia M. Hart.....	Drawings.....	12 30
99	"	Macmillan & Co.....	Books.....	3 19
100	"	A. A. Beal & Co.....	Plates.....	12 00
101	"	F. K. Robeson & Bro.....	Linoleum, etc.....	25 98
102	"	Champaign County Herald.....	Books, labels, etc.....	9 00
103	"	Franklin Engr'g & Electro. Co.....	Halftone.....	6 00
104	"	A. C. McClurg & Co.....	Book supports.....	1 92
105	"	S. Raymond Roberts.....	Conchology.....	6 00
106	"	Chas. A. Hart.....	Expenses.....	39 61
107	"	H. C. Forbes.....	"	4 27
108	"	D. H. Lloyd & Son.....	Stationery.....	4 78
109	"	Lawton & Co.....	Duplicator, etc.....	7 45
110	"	Ginn & Co.....	Subscription.....	9 00
111	"	H. W. Rokker.....	Printing and binding.....	82 40
112	"	Geo. E. Koehler.....	Binding.....	37 50
113	Oct.	31 H. C. Forbes.....	Salary, October, 1896.....	83 33
114	"	W. A. Snow.....	"	75 00
115	"	C. A. Hart.....	"	62 50
116	"	Mary J. Snyder.....	"	62 50
117	"	Harlen Scott.....	"	12 50
118	"	O. D. Spatts.....	Insect cases.....	26 70
119	Nov.	14 E. H. Sargent & Co.....	Bottles, corks.....	27 45
120	"	Chas. T. Wilder.....	Laboratory work.....	20 83
121	"	Geo. W. Parker & Son.....	Lumber.....	16 23
122	"	Geo. F. Lasher.....	Postal guide.....	2 00
123	"	J. Manz & Co.....	Views.....	30 24
124	"	R. S. Wilber.....	Drayage.....	7 01
125	Nov.	30 S. A. Forbes.....	Salary, 3 mos. to Nov. 30, 1896.....	62 50
126	"	H. C. Forbes.....	" Nov., 1896.....	83 33
127	"	Chas. A. Hart.....	"	62 50
128	"	W. A. Snow.....	"	50 00
129	"	Mary J. Snyder.....	"	62 50
130	"	Harlen Scott.....	"	12 50
131	"	J. Manz & Co.....	Halftone.....	2 88
132	"	Microscopical Publishing Co.....	Subscription.....	2 00
133	"	H. C. Forbes.....	Expenses.....	3 92
134	"	C. A. Hart.....	"	15 32
135	"	F. L. Bills.....	Postage.....	40 67
136	"	S. W. Shattuck, Business M'gr.....	Expressage, etc.....	17 37
137	Dec.	15 The Illini.....	Copies.....	10 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
138	1896.	Bevis & Co.....	Shipping boxes, etc.....	24 00
139	"	Keen & DeLang.....	Copy book.....	2 50
140	"	Hanson Bros.....	Cuts.....	4 00
141	"	Geo. E. Koehler.....	Binding.....	34 40
142	"	S. A. Forbes.....	Expenses.....	54 74
143	"	Bausch & Lomb Optical Co....	Camera repaired, etc.....	3 08
144	"	J. Manz & Co.....	Zinc Plates.....	4 02
145	"	Cambridge Entomological Club	Subscription.....	5 00
146	"	A. P. Cunningham & Son.....	Fly paper.....	1 00
147	"	Lydia M. Hart.....	Drawings.....	13 60
148	"	Chas. C. Adams.....	Work and expenses.....	21 73
149	"	R. Friedlander & Son.....	Books.....	59 90
150	"	S. W. Shattuck, Business M'gr	Expressage, etc.....	9 19
151	Dec.	19 S. A. Forbes.....	Expenses.....	84 77
152	"	H. C. Forbes.....	".....	5 05
153	"	Frank Smith.....	".....	1 25
154	"	Bausch & Lomb Optical Co.....	Hustings triplet.....	5 35
155	"	Chas. T. Wilder.....	Negative and print.....	1 50
156	"	Entomological News.....	Subscription for 1897.....	1 00
157	Dec.	31 H. C. Forbes.....	Salary for Dec., 1896.....	83 33
158	"	Mary J. Snyder.....	".....	62 50
159	"	Chas. A. Hart.....	".....	62 50
160	"	Chas. C. Adams.....	".....	40 00
161	"	Harlen Scott.....	".....	12 50
162	1897.	15 S. A. Forbes.....	Expenses.....	56 59
163	Jan.	J. P. Webster.....	Drawing material.....	3 50
164	"	The Gazette.....	Printing.....	8 75
165	"	D. H. Lloyde & Son.....	Stationery.....	2 90
166	"	Bausch & Lomb Optical Co.....	Hustings triplet.....	5 27
167	"	C. B. & Q. R. R. Co.....	Freight.....	2 15
168	"	Geo. W. Parker & Son.....	Bottle racks.....	12 48
169	"	American Express Co.....	Expressage.....	3 25
170	"	J. W. Franks & Son.....	Index to bulletins, etc.....	81 20
171	"	L. S. Foster.....	Subscription.....	3 00
172	"	Bernard Quaritch.....	Books.....	25 23
173	"	K. F. Koehler's Antiquarium.....	Subscription.....	3 00
174	"	John H. Knowles.....	Books.....	18 13
175	"	R. Friedlander & Son.....	".....	92 39
176	Jan.	30 S. A. Forbes.....	Expenses.....	67 28
177	"	Lydia M. Hart.....	Drawings.....	3 50
178	"	E. W. Mitchell.....	Traveling expenses.....	7 34
179	"	F. W. Prickett.....	".....	3 34
180	"	John A. Latzer.....	".....	2 90
181	"	Fred G. Miner.....	".....	5 41
182	"	A. D. Shamel.....	".....	13 27
183	"	F. D. Linn.....	".....	6 72
184	"	E. B. Forbes.....	".....	36 00
185	"	Library Bureau.....	Labels.....	2 25
186	"	R. W. Braucher.....	".....	4 31
187	"	Geo. E. Koehler.....	Binding books.....	26 90
188	"	E. H. Sargent & Co.....	Bottles, corks, etc.....	4 75
189	"	A. A. Beal & Co.....	Plates.....	24 00
190	"	H. O. Woodworth.....	Labor.....	57 00
191	"	H. C. Forbes.....	Petty expenses.....	3 45
192	"	Frank L. Bills.....	Postage.....	25 50
193	"	S. W. Shattuck, Business M'gr	Freight, telegrams.....	7 36
194	"	Mary J. Snyder.....	Salary for Jan., 1897.....	62 50
195	"	H. C. Forbes.....	".....	89 33
196	"	C. A. Hart.....	".....	75 00
197	"	C. C. Adams.....	".....	60 00
198	"	Harlen Scott.....	".....	15 00
199	"	Walker & Mullekin.....	Corduroy cushion, etc.....	6 55
200	"	R. S. Wilber.....	Drayage.....	4 01
201	Feb.	15 Barnard Quaritch.....	Foreign literature.....	14 92
202	"	K. F. Koehler's Antiquarium.....	".....	5 25
203	"	Lea Bros. & Co.....	Subscription.....	4 00
204	"	Jas. T. Hathaway.....	Book.....	2 25
205	"	Wm. Wesley & Son.....	Foreign books.....	9 20
206	"	Entomological Society of Ont.	Subscription, 1897.....	1 00
207	"	Page & Pratt.....	".....	3 50
208	"	The Library Bureau.....	Book labels.....	4 25
209	"	W. H. Lowdermilk & Co.....	Books.....	2 50
210	"	E. O. Vaile.....	Subscription.....	2 50
211	"	The Gazette.....	Printing circular notes.....	3 90

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
212	Feb. 15	D. H. Lloyd & Son.....	Envelopes, files, etc.....	4 65
213	"	E. B. Forbes.....	Work.....	2 00
214	"	Central Union Telephone Co..	Services to March 31, 1897.....	4 50
215	"	E. F. Hartman.....	Letter heads.....	3 50
216	"	H. C. Forbes.....	Petty expenses.....	3 65
217	"	Columbia Typewriter Mfg Co..	Ribbons, etc.....	4 59
218	"	Bausch & Lomb Optical Co..	Repairs of microscope.....	5 50
219	"	H. W. Rokker.....	Printing bulletins.....	120 90
220	Feb. 27	S. A. Forbes.....	Salary, three months, to Feb. 27, '97	62 50
221	"	H. C. Forbes.....	Salary for February, 1897.....	83 33
222	"	C. A. Hart.....	" " " " " " " " " " " "	75 00
223	"	Mary J. Snyder.....	" " " " " " " " " " " "	62 50
224	"	C. C. Adams.....	" " " " " " " " " " " "	50 00
225	"	Harlen Scott.....	" " " " " " " " " " " "	15 00
226	"	Lydia M. Hart.....	" " " " " " " " " " " "	27 30
227	March 15	S. A. Forbes.....	Expenses.....	29 45
228	"	H. C. Forbes.....	Petty expenses.....	3 85
229	"	Lydia M. Hart.....	Drawings.....	4 55
230	"	Alice Frazey.....	Work.....	10 44
231	"	R. S. Wilber.....	Drayage.....	7 52
232	"	Edwards & Docker Co.....	Subscription.....	4 00
235	"	J. Manz & Co.....	Half tone.....	4 00
234	"	Geo. Brunder.....	Book.....	11 50
235	"	E. H. Sargent & Co.....	Supplies.....	1 15
236	"	Wm. Wesley & Co.....	Books.....	18 63
237	"	Paul Klincksieck.....	".....	9 63
238	"	Lemecke & Buchner.....	Literature.....	3 05
239	"	H. W. Rokker.....	Bulletins.....	130 56
240	"	F. L. Bills.....	Postage.....	35 65
241	"	S. W. Shattuck, business mgr..	Expressage, telegrams.....	19 90
242	March 31	H. C. Forbes.....	Salary for March, 1897.....	83 33
243	"	C. A. Hart.....	" " " " " " " " " " " "	75 00
244	"	Mary J. Snyder.....	" " " " " " " " " " " "	62 50
245	"	C. C. Adams.....	" " " " " " " " " " " "	50 00
246	"	Harlen Scott.....	" " " " " " " " " " " "	15 00
247	May 15	S. A. Forbes.....	Expenses.....	34 98
248	"	Frank Smith.....	".....	12 50
249	"	Frank L. Bills.....	Postage.....	31 90
250	"	S. W. Shattuck, business mgr..	Sundry items.....	48 24
251	May 31	H. C. Forbes.....	Salary for April, 1897.....	83 33
252	"	C. A. Hart.....	" " " " " " " " " " " "	75 00
253	"	Mary J. Snyder.....	" " " " " " " " " " " "	52 50
254	"	C. C. Adams.....	" " " " " " " " " " " "	50 00
255	"	Harlen Scott.....	" " " " " " " " " " " "	15 00
256	"	Lillie M. Hart.....	" " " " " " " " " " " "	12 95
257	"	Ernest B. Forbes.....	" " " " " " " " " " " "	23 45
258	"	N. Y. Entomological Society..	Subscription.....	2 00
259	"	Lemecke & Buchner.....	Book.....	3 40
260	"	D. H. Lloyd & Son.....	Ink, paper, etc.....	2 30
261	"	Lawton & Co.....	Ribbons.....	1 50
262	June 15	S. A. Forbes.....	Expenses.....	51 60
263	"	E. B. Forbes.....	Work.....	13 90
264	"	S. W. Shattuck, business mgr..	Sundry items.....	37 86
265	"	Lydia M. Hart.....	Drawings.....	43 52
266	"	Fred Atkinson.....	Paintings, etc.....	1 50
267	"	J. C. Winship Co.....	Printing bulletins, etc.....	127 30
268	"	H. C. Forbes.....	Petty expenses.....	3 05
269	"	G. W. Parker & Son.....	Repairs on insectary.....	7 10
270	"	<i>The Nautilus</i> .....	Subscription.....	1 00
271	"	Dr. J. Brumhorst.....	Foreign publications.....	8 67
272	"	Maxmillan Co.....	Subscription.....	6 00
273	"	<i>Science</i> .....	".....	5 00
274	"	Wm. Wesley & Co.....	Foreign publications.....	5 40
275	"	L. Raymond Roberts.....	Publications.....	6 00
276	"	Geo. E. Koehler.....	Book binding.....	32 60
277	June 30	S. A. Forbes.....	Salary, three months, to May 31, 1897	62 50
278	"	H. C. Forbes.....	Salary, May and June, 1897.....	166 66
279	"	C. A. Kofoid.....	Part salary, June, 1897.....	10 24
280	"	C. A. Hart.....	Salary, May and June, 1897.....	166 66
281	"	C. C. Adams.....	" " " " " " " " " " " "	100 00
282	"	Mary J. Snyder.....	" " " " " " " " " " " "	125 00
283	"	Harlen Scott.....	" " " " " " " " " " " "	30 00
284	"	J. C. Winship Co.....	Work on corrections.....	10 80
285	"	S. W. Shattuck, business mgr..	Pay roll of men, May, 1897.....	4 78
286	"	R. Friedlander & Son.....	Foreign literature.....	149 51

AGRICULTURAL EXPERIMENT STATION WARRANTS.

No.	Date.	To whom.	For what.	Amount.
1	July 15	S. W. Shattuck, business mgr..	Freight and express.....	\$5 77
2	"	A. C. McClurg & Co	Stamp	3 00
3	"	Creamery Package Mfg Co.....	Mason jars, etc	12 13
4	"	C. A. Besore.....	Lumber, etc.....	1 00
5	"	Library Bureau.....	Gummed labels.....	21 10
6	"	E. E. Chester.....	Ewes.....	50 00
7	"	Repair shop, Univ. of Illinois..	Material for barometer case	2 95
8	"	Bausch & Lomb Optical Co.....	Microscopes.....	33 02
9	"	T. J. Burrill.....	Salary, for July, 1896.....	25 00
10	July 31	G. M. McCluer.....	"	110 00
11	"	W. L. Pillsbury.....	"	66 66
12	"	C. G. Hopkins.....	"	125 00
13	"	E. Davenport.....	"	87 50
14	"	W. A. Powers.....	"	60 00
15	"	W. J. Fraser.....	"	66 66
16	"	Kate McIntyre.....	"	50 00
17	"	C. F. Hottes.....	"	60 00
18	"	C. L. Beach.....	"	60 00
19	August 14	W. Pilcher.....	Milk.....	54 12
20	"	S. B. Hedges.....	"	46 51
21	"	S. W. Shattuck, business mgr..	Pay rolls for July, 1896	438 84
22	August 20	The Gazette.....	Advertising.....	2 25
23	"	S. W. Shattuck, business mgr..	Freight, express, etc	16 81
24	August 31	T. J. Burrill.....	Salary for August, 1896.....	25 00
25	"	G. W. McCluer.....	"	110 00
26	"	W. L. Pillsbury.....	"	66 66
27	"	C. G. Hopkins.....	"	125 00
28	"	E. Davenport.....	"	87 50
29	"	W. A. Powers.....	"	60 00
30	"	W. J. Fraser.....	"	66 66
31	"	Kate McIntyre.....	"	50 00
32	"	H. N. Woodward.....	Labor.....	13 00
33	"	J. C. Winship Co.....	Bulletins.....	225 00
34	"	C. G. Hopkins.....	Sundry items	11 15
35	"	Champaign Supply Co.....	Packing, etc.....	1 13
36	"	D. A. Burwash.....	Oats.....	4 75
37	"	E. Henry.....	Supplies.....	10 60
38	"	Twin City Ice & Cold Stor'ge Co	Ice.....	39 75
39	"	Malby & Wallace Co.....	Fittings.....	1 35
40	"	John F. Miller.....	Harness.....	26 70
41	"	Union Brick & Tile Co.....	Tile.....	6 63
42	"	Samuel Bartley.....	Labor.....	5 25
43	"	W. Pilcher.....	Milk.....	66 43
44	"	S. B. Hedges.....	"	59 04
45	Sept. 15	N. B. Morrison.....	Expenses.....	7 00
46	"	Isaac S. Raymond.....	"	3 50
47	"	E. A. Riehl.....	"	14 00
48	"	J. C. Winship Co.....	Printing bulletins.....	157 50
49	"	Champaign County Herald.....	Printing.....	49 75
50	"	S. W. Shattuck, business mgr..	Pay roll of men, August, 1896	439 41
51	Sept. 30	S. W. Shattuck, business mgr..	Freight and expressage.....	4 03
52	"	C. and U. Phoenix Telephone Co	Services to December, 1896	4 56
53	"	W. A. Powers.....	Advance on August salary	15 00
54	"	Gustav E. Stechert.....	Books.....	19 00
55	"	E. Davenport.....	Expenses.....	5 23
56	"	Henry J. Green.....	Thermometer, etc	13 10
57	"	H. Swannell.....	Kerosene oil.....	4 40
58	"	Creamery Package Mfg. Co.....	Jars, etc.....	22 65
59	"	C. H. Baddeley.....	Soap.....	3 50
60	"	C. J. Sabin.....	Twine, etc.....	2 60
61	"	Charles A. Besore.....	Lumber.....	51 55
62	"	T. J. Burrill.....	Salary for September, 1896.....	25 00
63	"	G. W. McCluer.....	"	110 00
64	"	W. L. Pillsbury.....	"	66 66
65	"	C. G. Hopkins.....	"	125 00
66	"	E. Davenport.....	"	87 50
67	"	W. A. Powers.....	"	75 00
68	"	W. J. Fraser.....	"	66 66
69	"	P. G. Holden.....	"	50 00
70	"	J. C. Blair.....	"	41 66
71	"	Kate McIntyre.....	"	50 00
72	"	G. P. Clinton.....	"	83 33
73	"	D. McIntosh.....	"	50 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
74	Sept. 30	Pantagraph Print. and Stat. Co	Binding books .....	\$55 08
75	"	University of Illinois	Repairing .....	3 90
76	"	Champaign County Herald	Stationery .....	20 00
77	"	S. W. Shattuck, Business Mgr.	Pay roll of men, September, 1896	347 38
78	October 15	Garman & Collins	Contract for laying floors	168 75
79	"	S. B. Hedges	Milk, September, 1896	53 75
80	"	W. Pileher	"	64 58
81	"	Twin City Ice & Cold Storage Co	Ice .....	12 50
82	"	S. B. Hedges	Hay .....	50 00
83	"	Charles A. Besore	Lumber .....	45 05
84	"	Price & Sanford	Sponges, etc.	1 25
85	"	Champaign Supply Co	Pipe, etc.	4 51
86	"	Augustine & Co.	Trees	16 37
87	"	V. W. Shuck	Galvanized hood	4 88
88	"	Knowlton & Bennett	Glass, etc.	5 52
89	"	S. W. Shattuck, Business Mgr.	Freight and express	3 80
90	"	"	Pay roll of men, September, 1896	40 44
91	"	E. Henry	Baskets, salt, etc	3 25
92	"	W. Pileher	Milk	11 96
93	"	De Laval Separator Co	Brushes, tube cleaners, etc	2 95
94	"	Creamery Package Mfg. Co	Sulphuric acid, etc	3 10
95	"	Samuel Bartley	Work	6 15
96	"	Robinson & Burr	Plumbing, etc	65 00
97	"	C. J. Sabin	Working plow, etc	21 40
98	October 31	T. J. Burrill	Salary for October, 1896	25 00
99	"	W. L. Pillsbury	"	66 66
100	"	C. G. Hopkins	"	125 00
101	"	E. Davenport	"	87 50
102	"	P. G. Holden	"	50 00
103	"	J. C. Blair	"	41 66
104	"	G. P. Clinton	"	83 33
105	"	D. McIntosh	"	50 00
106	"	Kate McIntyre	"	50 00
107	Nov. 14	George Besore	Feed, bran, etc.	25 80
108	"	W. O. Conner	Matches	1 80
109	"	Charles A. Besore	Lumber	21 21
110	"	Knowlton & Bennett	Blank book	2 00
111	"	Champaign Co. Printing Co	Advertisement	1 60
112	"	De Laval Separator Co	Repairing separator	16 35
113	"	O. H. Swigert	Lambs, etc.	71 75
114	"	Gustav E. Stechert	Books	19 16
115	"	The Gazette	Labels	1 35
116	"	John F. Miller	Harness, etc.	3 40
117	"	Sherwood Harness Works	Steel harness	10 00
118	"	Twin City Ice & Cold Storage Co	Ice	10 00
119	"	H. C. Porter	Ducking	1 00
120	"	William Price	Paints, oils, etc	11 85
121	"	C. G. Hopkins	Expenses	6 50
122	"	H. N. Woodward	Plowing, etc.	35 05
123	Nov. 16	S. B. Hedges	Milk	46 38
124	"	E. W. Hildebrand	Expenses	7 45
125	"	F. L. Bills	Postage	10 00
126	"	S. W. Shattuck, Business Mgr.	Freight and express	10 48
127	"	"	Pay roll of men, October, 1896	450 89
128	Nov. 30	T. J. Burrill	Salary for November, 1896	25 00
129	"	W. L. Pillsbury	"	66 66
130	"	E. Davenport	"	87 50
131	"	D. McIntosh	"	50 00
132	"	P. G. Holden	"	50 00
133	"	G. P. Clinton	"	83 33
134	"	C. G. Hopkins	"	125 00
135	"	J. C. Blair	"	41 66
136	"	W. J. Fraser	"	33 33
137	"	Kate McIntyre	"	50 00
138	"	T. I. Mairs	"	33 33
139	Dec. 10	E. Davenport	Expenses	63 90
140	"	H. B. Gurler	"	15 56
141	Dec. 15	E. Davenport	"	3 40
142	"	W. J. Frazer	"	2 30
143	"	Thomas Skinner	Labor	34 50
144	"	C. J. Sabin	Twine	2 10
145	"	George Ely	Repairing	6 50
146	"	Bevis & Co.	Lumber	1 55
147	"	A. P. Cunningham & Sons	Camera, etc	13 00
148	"	William Price	Lead, oils, etc	6 03
149	"	John F. Miller	Repairing, etc	3 45



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
150	Dec. 15	H. Mineka .....	Repairing harness.....	\$2 20
151	"	S. B. Hedges .....	Milk for November, 1896.....	42 64
152	"	J. C. Blair .....	Petty expenses.....	2 70
153	"	J. Morrow .....	Repairing pipe, etc.....	4 80
154	"	C. A. Besore.....	Lumber, etc.....	36 11
155	"	George Besore .....	Bran, grinding, etc.....	49 23
156	"	Gustav E. Stechert .....	Books.....	5 65
157	"	George F. Lasher .....	Postal guide.....	2 50
158	"	Hall Linseed Oil Works.....	Linseed cake.....	8 50
159	"	Samuel Bartley .....	Superintending experiments.....	27 75
160	"	Henry Heil Chemical Co.....	Apparatus.....	3 60
161	"	Knowlton & Bennett.....	Paint, etc.....	6 00
162	"	S. W. Shattuck, Business Mgr.	Freight and sundry items.....	7 92
163	"		Pay roll of men, November, 1896.....	320 64
164	Dec. 30	T. J. Burrill .....	Salary for December, 1896.....	25 00
165	"	W. L. Pillsbury .....	" .....	66 66
166	"	E. Davenport.....	" .....	87 50
167	"	D. McIntosh .....	" .....	50 00
168	"	P. G. Holden .....	" .....	50 00
169	"	G. P. Clinton .....	" .....	83 33
170	"	C. G. Hopkins .....	" .....	125 00
171	"	J. C. Blair .....	" .....	41 66
172	"	W. J. Fraser.....	" .....	33 33
173	Dec. 31	Kate McIntyre .....	" .....	50 00
174	"	T. I. Mairs.....	" .....	33 33
175	"	S. W. Shattuck, Business Mgr.	Freight.....	24 40
176	"	Eimer & Amend .....	Chemicals.....	263 64
177	"	Hubbard & Sons .....	Hardware etc.....	57 47
178	"	C. & U. Phoenix Telephone Co.	Services to March 15, 1897.....	4 50
179	"	Henry M. Dunlap .....	Services of sheep.....	3 00
180	"	The Gazette .....	Printing.....	4 10
181	"	Champaign County Herald.....	" .....	17 05
182	"	Henry Trevett.....	Hardware.....	40 35
183	"	Charles A. Besore.....	Lumber.....	3 63
184	"	D. H. Lloyd & Son.....	Ink wells, etc.....	1 45
185	"	Robinson & Burr .....	Repairs, etc.....	8 25
186	"	Maxwell & Mollett.....	" .....	1 85
187	"	G. C. Willis.....	Crash, etc.....	8 85
188	"	Knowlton & Bennett.....	Sponges, etc.....	1 10
189	"	John F. Miller.....	Straps.....	1 10
190	"	Henry Trevett.....	Galvanized wire, etc.....	5 90
191	"	Walker & Mulliken.....	Cloth, etc.....	6 55
192	"	Creamery Package Mfg Co.....	Mason jars, etc.....	20 83
193	"	F. H. Trevett.....	Hardware.....	12 23
194	"	Twin City Ice & Cold Stor'ge Co	Ice.....	5 00
195	"	George Besore .....	Bran.....	14 55
196	"	J. Hamilton & Son.....	Lumber.....	3 87
197	"	C. J. Sabin.....	Twine.....	70
198	"	H. Swannell.....	Lard oil, etc.....	3 05
199	"	S. B. Hedges .....	Milk for December, 1896.....	38 41
200	"	S. W. Shattuck, Business Mgr.	Freight, labor, etc.....	17 05
	1897.			
201	Jan. 15	S. W. Shattuck, Business Mgr.	Freight, express and labor.....	270 11
202	"	Henry Tromner.....	Scales and weights.....	95 25
203	"	J. B. Ellis.....	N. A. fungi.....	7 18
204	"	Thomas Meehan & Sons .....	Subscription.....	2 00
205	"	F. L. Bills.....	Postage.....	5 00
206	"	Hubbard & Sons .....	Plumbing, etc.....	42 77
207	"	Charles A. Besore.....	Lumber and coal.....	9 97
208	"	Pantagraph Print. and Stat. Co	Stationery, etc.....	6 10
209	"	T. J. Burrill .....	Salary for January, 1897.....	25 00
210	Jan. 30	W. L. Pillsbury .....	" .....	66 66
211	"	E. Davenport.....	" .....	91 66
212	"	D. McIntosh .....	" .....	50 00
213	"	P. G. Holden .....	" .....	50 00
214	"	G. P. Clinton .....	" .....	83 33
215	"	C. G. Hopkins .....	" .....	125 00
216	"	J. C. Blair .....	" .....	41 66
217	"	W. J. Fraser.....	" .....	33 33
218	"	Kate McIntyre .....	" .....	50 00
219	"	T. I. Mairs.....	" .....	33 33
220	Feb. 15	Union Brick and Tile Co.....	Tile.....	2 20
221	"	Charles A. Besore.....	Lumber, coal.....	12 78
222	"	H. Swannell.....	Oil.....	4 50
223	"	E. W. Sampson.....	Fruit jars.....	4 00
224	"	Gustav E. Stechert .....	Books.....	2 51

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
225	Feb. 15	Library Bureau	Table	\$1 25
226	"	J. Manz & Co.	Halftones	17 37
227	"	George Besore	Bran	43 36
228	"	De Laval Separator Co	Crank lever	1 50
229	"	Ottenheimer & Co	Overalls	2 00
230	"	Robinson & Burr	Wrenches, pulleys, etc.	11 30
231	"	Hubbard & Sons	Pipe and fittings	48 10
232	"	R. Herbst	Ribbons	2 25
233	"	J. R. Greenhalgh	Lamp	5 85
234	"	E. Henry	Washing powder, etc.	5 10
235	"	The Gazette	Paper	1 00
236	"	Bevis & Co.	Lumber	33 00
237	"	S. W. Shattuck, business mgr.	Pay roll, men, January, 1897	286 05
238	Feb. 27	T. J. Burrill	Salary for February, 1897	25 00
239	"	W. L. Pillsbury	"	66 66
240	"	E. Davenport	"	91 66
241	"	D. McIntosh	"	50 00
242	"	P. G. Holden	"	50 00
243	"	G. P. Clinton	"	83 33
244	"	C. G. Hopkins	"	125 00
245	"	J. C. Blair	"	41 66
246	"	W. J. Fraser	"	33 33
247	"	Kate McIntyre	"	50 00
248	"	T. I. Mairs	"	33 33
249	"	William Price	Shades, oil, etc.	12 13
250	"	A. Selocovitz	Pipe and iron	1 85
251	March 15	Isaac S. Raymond	Expenses	2 65
252	"	N. B. Morrison	"	8 50
253	"	E. A. Riehl	"	13 70
254	"	Hubbard & Sons	Bolts	5 25
255	"	S. W. Shattuck, business mgr.	Pay roll, February, 1897, etc.	321 87
256	March 31	T. J. Burrill	Salary for March, 1897	25 00
257	"	W. L. Pillsbury	"	66 66
258	"	E. Davenport	"	91 66
259	"	D. McIntosh	"	50 00
260	"	P. G. Holden	"	50 00
261	"	G. P. Clinton	"	83 33
262	"	C. G. Hopkins	"	125 00
263	"	J. C. Blair	"	41 66
264	"	W. J. Fraser	"	33 33
265	"	Kate McIntyre	"	50 00
266	"	T. I. Mairs	"	33 33
267	"	C. A. Besore	Lumber, coal, etc.	16 68
268	"	Gustav E. Stechert	Subscriptions	162 40
269	"	Library Bureau	Book	5 00
270	"	S. B. Hedges	Hay	60 11
271	"	George Besore	Bran, oats, etc.	23 43
272	"	Pantagraph Printing & Sta. Co	Tablets	2 00
273	"	C. & U. Phoenix Telephone Co.	Services to June 15, 1897	4 50
274	"	Joliet Strowbridge Co.	Ring	2 00
275	"	J. C. Winship Co.	Printing bulletins	191 07
276	"	John F. Miller	Stable blankets, repairs, etc.	11 00
277	"	H. Mineka	Stable blankets	5 50
278	"	Robinson & Burr	Repairing milk tester, etc.	7 40
279	"	F. L. Bills	Postage	10 00
280	April 21	S. W. Shattuck, business mgr.	Pay roll of men, March, 1897	365 71
281	"	E. Davenport	Expenses	3 62
282	"	Iowa Seed Co.	Seeds, etc.	4 14
283	"	Morrill & Morley	Bamboo, etc.	3 40
284	"	L. C. Garwood	Clock	1 00
285	"	Cambridge Botanical Supply Co	Paper, trowels, etc.	9 87
286	"	William Price	Glass, paints, etc.	5 90
287	"	Hubbard & Sons	Hardware, etc.	21 07
288	"	Creamery Package Mfg. Co.	Pulp caps	5 50
289	"	George S. Josselyn	Gooseberry and grape plants	10 15
290	"	Petty & Sayers	Pegs	1 00
291	"	Charles A. Besore	Coal	5 55
292	"	J. M. Thorburn & Co.	Seeds	10 89
293	"	Peter Henderson & Co.	"	4 48
294	"	W. Atlee Burpee & Co.	Seed corn, oats, etc.	1 10
295	"	H. Swannell	Oil	3 75
296	"	John J. McGowen	Spraying nozzle	1 00
297	"	Charles L. Mann	Zinc labels	8 00
298	"	Frison Bros.	Repairing buggy, etc.	5 50
299	"	G. E. Stechert	Books	6 34
300	"	H. N. Woodward	Services	10 00

## Warrants—Continued.

No.	Date.	To whom paid.	For what.	Amount.
	1897.			
301	April 21	A. A. A. Coll. and Expt. Stations	Membership fee .....	\$10 00
302	"	C. H. Baddeley .....	Sapolio, etc. ....	3 00
303	"	Knowlton & Bennett .....	Glycerine .....	2 50
304	"	Champaign County Herald .....	Envelopes for bulletins .....	105 83
305	April 30	T. J. Burrill .....	Salary, April, 1897 .....	25 00
306	"	W. L. Pillsbury .....	" .....	66 66
307	"	E. Davenport .....	" .....	91 66
308	"	D. McIntosh .....	" .....	50 00
309	"	P. G. Holden .....	" .....	50 00
310	"	G. P. Clinton .....	" .....	83 33
311	"	C. G. Hopkins .....	" .....	125 00
312	"	J. C. Blair .....	" .....	41 66
313	"	W. J. Fraser .....	" .....	33 33
314	"	Kate McIntyre .....	" .....	50 00
315	"	T. I. Mairs .....	" .....	33 33
316	"	E. S. Wilber .....	Drayage .....	2 00
317	"	Bausch & Lomb Optical Co .....	Microtome, etc. ....	61 48
318	"	J. C. Winship Co .....	Bulletins .....	424 00
319	"	Frison Bros. ....	Painting and repairing wagon .....	31 50
320	"	Morrill & Morley .....	Bamboo rod, etc .....	2 20
321	"	B. F. Avery & Sons .....	Plow .....	6 60
322	"	Giles Clough & Co .....	Jars .....	26 50
323	"	A. P. Cunningham & Sons .....	Dusters, rules, etc .....	6 27
324	"	C. J. Sabin .....	Harrows .....	27 00
325	"	Robinson & Burr .....	Fittings, etc .....	11 56
326	"	E. Davenport .....	Expenses .....	9 40
327	"	W. J. Fraser .....	Petty expenses .....	5 98
328	"	G. E. Stechert .....	Subscription .....	1 00
329	"	John Grein .....	Oats .....	31 08
330	"	C. G. Hopkins .....	Petty expenses .....	20 00
331	"	Phoenix Nursery Co .....	Plants .....	9 26
332	"	Victor Koechl & Co .....	Seeds .....	8 75
333	"	Greening Bros .....	Plants .....	16 60
334	"	Augustine & Co .....	" .....	24 99
335	"	T. E. Goodrich .....	Blackberry plants .....	1 50
336	"	P. G. Holden .....	Expenses .....	7 05
337	"	Otto Swigart .....	Steers .....	153 24
338	"	Bush & Campbell .....	Hay .....	3 00
339	"	Charles A. Besore .....	Lumber and coal .....	22 43
340	May 31	T. J. Burrill .....	Salary, May, 1897 .....	25 00
341	"	W. L. Pillsbury .....	" .....	66 66
342	"	E. Davenport .....	" .....	91 66
343	"	D. McIntosh .....	" .....	50 00
344	"	P. G. Holden .....	" .....	50 00
345	"	G. P. Clinton .....	" .....	83 33
346	"	C. G. Hopkins .....	" .....	125 00
347	"	J. C. Blair .....	" .....	41 66
348	"	W. J. Fraser .....	" .....	33 33
349	"	Kate McIntyre .....	" .....	50 00
350	"	T. I. Mairs .....	" .....	33 33
351	June 15	J. V. Cotta .....	Nursery stock .....	4 25
352	"	Thos. Meehan & Sons .....	" .....	2 71
353	"	H. N. Woodward .....	Labor .....	22 92
354	"	Thos. Franks .....	Flower pots .....	3 00
355	"	Fuller & Fuller Co .....	Oil of vitriol, etc .....	8 79
356	"	Eimer & Amend .....	Chemicals .....	25 09
357	"	Burrill & Davis .....	Oats, hose, etc .....	8 80
358	"	Standard Oil Co .....	Empty barrels .....	1 60
359	"	Creamery Package Mfg. Co .....	Bottles .....	2 25
360	"	C. H. Dana .....	Labels and punch .....	6 38
361	"	T. H. Trevett .....	Seed germinators, etc .....	13 05
362	"	Robinson & Burr .....	Sharpening samplers, etc .....	2 74
363	"	Gustav E. Stechert .....	Books .....	8 67
364	"	Pantagraph Printing & Sta. Co .....	Boxes for library cards .....	16 25
365	"	H. McFadden & Bro .....	Bran .....	6 00
366	"	George Besore .....	Bran, shorts, etc .....	58 79
367	"	Champaign Roller Mills .....	Bran .....	13 00
368	"	Myer Bros. Drug Co .....	Whale oil soap .....	3 50
369	"	Hubbard & Sons .....	Hardware .....	42 43
370	"	Samuel Bartley .....	Labor on experiment fields .....	6 65
371	"	William Darrah .....	Sweet potato plants .....	1 00
372	"	A. P. Cunningham & Sons .....	Plates, etc .....	12 33
373	"	W. W. Barnard & Co .....	Seeds .....	6 93
374	"	C. A. Besore .....	Lumber .....	60 37
375	"	McGraw & O'Neil .....	Buckets, etc .....	3 17
376	"	G. C. Willis .....	Muslin, toweling, etc .....	7 81

## Warrants—Concluded.

No.	Date.	To whom paid.	For what.	Amount.
	1897.			
377	June 15	A. H. Barber.....	Mason jars, bottles, etc.....	\$21 50
378	"	Columbian Grape Co.....	Plants.....	9 00
379	"	Champaign County Herald.....	Printing circulars.....	22 00
380	"	A. D. Barber.....	Expenses.....	6 10
381	"	E. A. Riehl.....	".....	13 00
382	"	Petty & Sayers.....	Screen doors.....	4 35
383	"	Peter Henderson & Co.....	Plants.....	8 17
384	"	S. W. Shattuck, business mgr.....	Sundry items.....	101 60
385	"	".....	Freight and express.....	65 08
386	"	".....	Pay roll, men, April and May.....	\$59 58
387	June 3	T. J. Burrill.....	Salary, June, 1897.....	25 00
388	"	W. L. Pillsbury.....	".....	66 66
389	"	E. Davenport.....	".....	91 66
390	"	D. McIntosh.....	".....	50 00
391	"	P. G. Holden.....	".....	50 00
392	"	G. P. Clinton.....	".....	83 33
393	"	O. G. Hopkins.....	".....	125 00
394	"	J. C. Blair.....	".....	41 66
395	"	W. J. Fraser.....	".....	33 33
396	"	Kate McIntyre.....	".....	50 00
397	"	T. I. Mairs.....	".....	33 33
398	"	Twin City Ice & Cold Storage Co.....	Ice.....	16 50
399	"	Samuel Bartley.....	Labor.....	4 75
400	"	S. W. Shattuck, business mgr.....	Pay roll, men, June, 1897.....	390 37

## SCHOOL OF PHARMACY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1896.			
1	July 15	H. S. Cooper.....	Calcimining.....	\$83 00
2	"	Murray & Co.....	Board Sign.....	30 00
3	"	Mandel Bros.....	Matting, Shades, etc.....	27 26
4	"	E. J. Anthony.....	Printing.....	6 25
5	"	Fuller & Fuller Co.....	Paints, oils, etc.....	14 60
6	"	A. W. Palmer.....	Expenses.....	24 16
7	"	W. B. Day.....	Postage, wrappers, expenses.....	420 42
8	July 31	".....	Salary, July, 1896.....	75 00
9	"	Henry Eulert.....	".....	50 00
10	"	J. H. Clough.....	Rent.....	300 00
11	Aug.	E. J. Anthony.....	Envelopes.....	2 25
12	"	A. W. Palmer.....	Expenses.....	13 35
13	"	W. B. Day.....	".....	18 26
14	"	Chicago Telephone Co.....	Services from Aug. 1 to Oct. 1, 1896.....	20 83
15	"	The Pontiac Eng. & Pub Co.....	Engravings.....	15 95
16	"	Jean D. Ness.....	Addressing circulars.....	9 85
17	"	Ada B. Quinn.....	".....	9 87
18	"	W. B. Day.....	Taxes.....	165 54
19	"	W. B. Conkey Co.....	Printing announcement.....	349 05
20	Aug. 20	John McLogan & Co.....	Repairing closet.....	3 90
21	Aug. 31	W. B. Day.....	Salary, August, 1896.....	75 00
22	"	Henry Eulert.....	".....	50 00
23	"	J. H. Clough.....	Rent for August, 1899.....	300 00
24	"	W. B. Day, Actuary.....	Expenses.....	23 53
25	"	S. W. Shattuck, Business Mgr.....	Expressage and interest.....	46 10
26	Sept. 30	W. B. Day, Actuary.....	Petty expenses.....	27 19
27	"	Deutsch-Amerikanische.....	<i>Apotheker Zeitung</i> .....	15 00
28	"	Meyer Bros.....	Advertisement.....	11 25
29	"	D. O. Haynes & Co.....	".....	58 50
30	"	Druggist Publishing Co.....	".....	18 75
31	"	Mandel Bros.....	Shades.....	7 75
32	"	E. J. Anthony.....	Printing.....	10 00
33	"	John McLogan & Co.....	Gas fittings and piping.....	2 00
34	"	H. S. Cooper.....	Plastering.....	2 00
35	"	W. B. Day.....	Salary, September, 1896.....	75 00
36	"	Henry Eulert.....	".....	50 00
37	"	J. H. Clough.....	Rent.....	300 00
38	"	Turney & Jones.....	Coal.....	297 12
39	Oct. 15	S. B. Traub.....	Moving furnace and repairs.....	44 75
40	"	E. J. Anthony.....	Receipt books, etc.....	9 00
41	"	Orr & Lockett Hardware Co.....	Stamping checks, etc.....	3 90
42	"	Chicago Telephone Co.....	Services to January 1, 1897.....	31 25

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
43	Oct. 15	Richards & Co .....	Slides and forceps, etc .....	\$65 00
44	" "	Registered Pharmacist .....	Advertising .....	15 00
45	" "	Amour Soap Works .....	Toilet soap .....	3 75
46	" "	Merk & Co. ....	Advertising .....	35 00
47	" "	American Druggist Pub. Co .....	" .....	42 50
48	" "	C. P. Engelhard & Co .....	" .....	35 00
49	Oct. 31	F. M. Goodman .....	Salary, October, 1896 .....	203 00
50	" "	C. S. N. Hallberg .....	" .....	157 89
51	" "	W. A. Puckner .....	" .....	203 00
52	" "	Frank S. Hereth .....	" .....	78 94
53	" "	W. B. Day .....	" .....	75 00
54	" "	Henry Eulert .....	" .....	50 00
55	" "	J. H. Clough .....	Rent of building, October, 1896 .....	300 00
56	" "	W. B. Day, Actuary .....	Expenses .....	44 24
57	Nov. 14	Armstrong Cork Co. ....	Corks .....	6 78
58	" "	Chappell Chemical Co. ....	Nitric acid, etc. ....	14 09
59	" "	A. C. McClurg & Co .....	Tablets .....	4 70
60	" "	F. F. Pettibone & Co. ....	Binders .....	2 30
61	" "	E. J. Anthony .....	Printing invitations .....	21 00
62	" "	Whitail, Tatum & Co .....	Chemical apparatus .....	4 64
63	" "	Pictorial Printing Co .....	Labels .....	2 50
64	" "	Mandel Bros .....	Muslin, etc .....	1 85
65	" "	Murray Nickell Mfg. Co. ....	Drugs .....	6 66
66	" "	A. H. Andrews & Co. ....	Black board, etc .....	4 00
67	" "	Pharmaceutical Review Pub. Co .....	Advertisement .....	25 00
68	" "	Druggist Circular .....	" .....	33 34
69	" "	Robert W. Schenk .....	Floral decorations .....	13 00
70	" "	John McLogan & Co. ....	Repairing water pipe, etc .....	5 00
71	" "	Richards & Co .....	Chemicals, etc .....	34 79
72	" "	Thayer & Jackson Stat'y Co .....	Mimeograph paper .....	1 60
73	Nov. 30	F. M. Goodman .....	Salary, November, 1896 .....	203 00
74	" "	C. S. N. Hallberg .....	" .....	157 89
75	" "	W. A. Puckner .....	" .....	203 00
76	" "	Frank S. Hereth .....	" .....	78 94
77	" "	W. B. Day .....	" .....	75 00
78	" "	Henry Eulert .....	" .....	50 00
79	" "	J. H. Clough .....	Rent of building, November, 1896 .....	300 00
80	" "	Fuller & Fuller Co. ....	Drugs .....	79 08
81	" "	Pictorial Printing Co .....	Labels .....	1 80
82	" "	Morrison, Plummer & Co .....	Iodine, potassium, etc. ....	60 21
83	" "	W. B. Day, Actuary .....	Expenses .....	38 34
84	Dec. 14	T. P. Brankin .....	Sprinkling, November, 1896 .....	10 00
85	" "	A. C. McClurg & Co .....	Paper .....	3 00
86	" "	J. C. Craig .....	Water to November, 1896 .....	9 00
87	" "	E. J. Anthony .....	Envelopes .....	2 75
88	" "	Morrison, Plummer & Co .....	Supplies .....	5 23
89	Dec. 15	Chappell Chemical Co. ....	Ammonia, etc .....	1 75
90	" "	Mercantile Printing Co .....	Circulars, etc .....	11 25
91	" "	Murray & Co .....	Flags, etc .....	15 00
92	" "	Henry H. Shufeldt & Co .....	Alcohol .....	27 58
93	" "	Fuller & Fuller Co. ....	Filters, supplies, etc. ....	16 43
94	" "	Thayer & Jackson Stat'y Co .....	Inks .....	1 50
95	Dec. 22	W. B. Day, Actuary .....	Petty expenses .....	52 35
96	Dec. 31	F. M. Goodman .....	Salary, December, 1896 .....	203 00
97	" "	C. S. N. Hallberg .....	" .....	157 89
98	" "	W. A. Puckner .....	" .....	203 00
99	" "	Frank S. Hereth .....	" .....	78 94
100	" "	W. B. Day .....	" .....	75 00
101	" "	Henry Eulert .....	" .....	50 00
102	" "	J. H. Clough .....	Rent of building, December, 1896 .....	300 00
	1897.			
103	Jan. 15	Donohue & Henneberry .....	Paper .....	7 75
104	" "	Thayer & Jackson Station'y Co .....	Stencil paper .....	1 00
105	" "	Chicago Telephone Co. ....	Services to April, 1897 .....	31 25
106	" "	American Cutlery Co. ....	Spatulus .....	6 00
107	" "	Mercantile Printing Co .....	Circulars .....	2 25
108	" "	Anthony Cork Co .....	Corks .....	1 30
109	" "	The Chappell Chemical Co .....	Ammonia .....	1 75
110	" "	Richards & Co .....	Platinum foil, etc .....	14 13
111	" "	Morrison, Plummer & Co .....	Drugs .....	34 24
112	" "	Fuller & Fuller Co. ....	Chemicals .....	61 58
113	Jan. 30	Richards & Co .....	" .....	388 07
114	" "	W. B. Day, actuary .....	Petty expenses .....	54 69
115	" "	F. M. Goodman .....	Salary for January, 1897 .....	203 00
116	" "	C. S. N. Hallberg .....	" .....	157 89
117	" "	W. A. Puckner .....	" .....	203 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
118	Jan. 30	Frank S. Hereth .....	Salary for January, 1897.....	\$78 94
119	"	W. B. Day.....	" .....	75 00
120	"	Henry Eulert.....	" .....	50 00
121	"	J. H. Clough.....	Payment of building, January, 1897.....	300 00
122	Feb. 15	Mrs. J. Freksen .....	Payment mortgage note .....	1,545 00
123	"	Higgins, Todd & Co.....	Toilet paper.....	7 50
124	"	Thayer & Jackson Station'y Co.....	Stationery, etc.....	6 00
125	"	John McLogan & Co.....	Repairing pipes, etc.....	5 15
126	"	J. C. Craig, superintendent.....	Water, December, 1897.....	15 00
127	"	Armstrong Cork Co.....	Corks.....	9 98
128	"	Goes Lithographing Co.....	Diplomas.....	50 00
129	"	Pictorial Printing Co.....	Labels, blanks.....	1 75
130	"	Morrison, Plummer & Co.....	Drugs.....	37 38
131	"	The Chappell Chemical Co.....	Ammonia, etc.....	1 93
132	"	Fuller & Fuller Co.....	Chemicals.....	13 09
133	"	Lehr & Fink.....	Drugs.....	2 25
134	"	Mandel Bros.....	Crash.....	4 75
135	"	Richards & Co.....	Beakers and filters.....	6 00
136	Feb. 27	F. M. Goodman.....	Salary for February, 1897.....	203 00
137	"	C. S. N. Hallberg.....	" .....	157 89
138	"	W. A. Puckner.....	" .....	203 00
139	"	Frank S. Hereth.....	" .....	78 94
140	"	W. B. Day.....	" .....	75 00
141	"	Henry Eulert.....	" .....	50 00
142	"	J. H. Clough.....	Payment of building, February, 1897.....	300 00
143	"	W. B. Day, actuary.....	Petty expenses to February, 1897.....	37 03
144	"	T. J. Burrill.....	Expenses.....	6 84
145	March 15	Fuller & Fuller Co.....	Chemicals, etc.....	23 56
146	"	Thayer & Jackson Station'y Co.....	Paper.....	1 50
147	"	S. B. Traub.....	Cover for coal hod.....	2 50
148	"	P. F. Pettibone & Co.....	Files, index, etc.....	1 95
149	"	Donohue & Henneberry.....	Paper, etc.....	4 10
150	"	The Chappell Chemical Co.....	Chemicals.....	1 75
151	"	Richards & Co.....	Drugs.....	5 27
152	March 31	F. M. Goodman.....	Salary for March, 1897.....	203 00
153	"	C. S. N. Hallberg.....	" .....	157 89
154	"	W. A. Puckner.....	" .....	203 00
155	"	Frank S. Hereth.....	" .....	78 94
156	"	W. B. Day.....	" .....	75 00
157	"	Henry Eulert.....	" .....	50 00
158	"	J. H. Clough.....	Payment of building, March, 1897.....	300 00
159	"	W. B. Day, actuary.....	Petty expenses.....	66 94
160	May 15	W. B. Day, actuary.....	" .....	67 39
161	"	S. W. Parr.....	Expenses.....	2 50
162	"	E. J. Lake.....	Lettering diplomas.....	13 25
163	"	Fuller & Fuller Co.....	Drugs.....	14 58
164	"	John McLogan & Co.....	Plumbing, etc.....	3 80
165	"	Haddock, Vallette & Richards.....	Abstract of title.....	11 50
166	"	J. C. Craig.....	Water to March, 1897.....	15 75
167	"	Donohue & Henneberry.....	Paper, etc.....	11 40
168	"	Pictorial Printing Co.....	Labels.....	1 75
169	"	Thayer & Jackson Station'y Co.....	Ruled paper.....	1 50
170	"	Morrison, Plummer & Co.....	Drugs.....	2 16
171	May 31	F. M. Goodman.....	Salary, April, 1897.....	203 00
172	"	C. S. N. Hallberg.....	" .....	157 89
173	"	W. A. Puckner.....	" .....	203 00
174	"	Frank S. Hereth.....	" .....	78 94
175	"	W. B. Day.....	" .....	75 00
176	"	Henry Eulert.....	" .....	50 00

SCHOOL OF MEDICINE WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	May 31	J. S. Tomlinson .....	Salary, April and May, 1897.....	\$100 00
2	"	Miss E. M. Heelan .....	" .....	80 00
3	"	G. Johnston .....	" .....	53 33
4	"	John McClain .....	" .....	33 34
5	"	Gus Schneider .....	Salary, April, 1897.....	8 34
6	"	W. S. Royce .....	Salary, April and May, 1897.....	40 00
7	"	Theo. Ticken .....	" .....	48 00
8	"	J. A. Wesener .....	" .....	100 00
9	"	W. A. Evans .....	" .....	66 67
10	"	W. T. Eckley .....	" .....	66 67
11	"	A. Gehrman .....	" .....	33 34
12	"	E. G. Earle .....	" .....	33 34
13	"	W. A. Pusey .....	" .....	55 54
14	"	Mary J. Calkins .....	" .....	15 00
15	"	Blakeley Printing Co. ....	Printing circulars .....	29 20
16	"	Fantus & Son .....	Printing .....	1 50
17	"	Cameron, Amberg & Co. ....	Ledger and receipt blanks .....	21 50
18	"	P. F. Pettibone & Co. ....	Schedules .....	12 00
19	"	Chicago Clinical Review P. Co.	Advertisement .....	6 25
20	"	Richards & Co. ....	Copper plates .....	1 80
21	"	Searle & Hereth Co. ....	Drugs .....	3 62
22	"	Marshall Field & Co. ....	Cloth .....	47 27
23	"	P. & S. Plexus .....	Advertisement .....	26 66
24	"	Thos. Cusack & Co. ....	Lettering sign .....	65 00
25	"	G. D. Evans .....	Labor and materials .....	5 35
26	"	Brazil & Chicago Coal Co. ....	Coal .....	53 62
27	"	Chicago Herald Co. ....	Advertising .....	31 00
28	"	Fuller & Fuller Co. ....	Chemicals .....	49 25
29	"	W. A. Pusey .....	Petty expenses .....	112 03
30	"	Oberlin Review .....	Advertising .....	8 00
31	"	Wooster Voice .....	" .....	4 50
32	"	College Palladium .....	" .....	1 35
33	"	The Knox Student .....	" .....	3 75
34	"	DePauw Weekly .....	" .....	5 00
35	"	Collegian Forense .....	" .....	3 75
36	"	The Penn Chronicle .....	" .....	3 00
37	"	College Days .....	" .....	2 00
38	"	The Student .....	" .....	2 25
39	"	The Archaean Union .....	" .....	5 00
40	"	The Illini .....	" .....	7 50
41	"	The Wabash .....	" .....	2 50
42	"	The Kenyon Collegian .....	" .....	3 00
43	"	Collegian Herald .....	" .....	3 25
44	"	Blackburnian Pub. Co. ....	" .....	1 50
45	June 15	Thos. Cusack & Co. ....	Gilding and painting sign .....	42 00
46	"	Demonstrators' Ass'n of Ill. ....	Assessment .....	63 00
47	"	D. A. K. Steele .....	Petty expenses .....	957 00
48	June 30	J. A. Wesener .....	Salary, June, 1897.....	75 00
49	"	W. A. Evans .....	" .....	50 00
50	"	W. T. Eckley .....	" .....	50 00
51	"	A. Gehrman .....	" .....	25 00
52	"	E. G. Earle .....	" .....	25 00
53	"	W. A. Pusey .....	" .....	41 66
54	"	J. S. Tomlinson .....	" .....	75 00
55	"	Miss E. M. Heelan .....	" .....	60 00
56	"	Geo. Johnston .....	" .....	40 00
57	"	Theo. Ticken .....	" .....	36 00
58	"	Chas. Truax, Greene & Co. ....	Silk and cat gut, etc. ....	7 80
59	"	W. S. Royce .....	Salary, June, 1897.....	30 00
60	"	John McClain .....	" .....	25 00
61	"	Fantus & Son .....	Envelopes .....	2 75
62	"	Richards & Co. ....	Grinding knives .....	4 00
63	"	Chas. Truax, Greene & Co. ....	Sprays, etc. ....	9 80
64	"	Cameron, Amberg & Co. ....	Postals, etc. ....	10 90
65	"	James Clancy & Sons .....	Plumbing, etc. ....	9 35
66	"	H. Ahrens .....	Sapolio, etc. ....	9 25
67	"	Fuller & Fuller Co. ....	Drugs .....	10 20
68	"	Voice Pub. Co. ....	Advertisement .....	7 00
69	"	College Olio .....	" .....	1 75
70	"	The Adelbert .....	" .....	3 00
71	"	The Cornellian .....	" .....	6 00
72	"	Egis Association .....	" .....	3 00
73	"	Chicago Telephone Co. ....	Rent of instrument, October, 1897..	31 25
74	"	W. A. Pusey .....	Petty expenses .....	56 00
75	"	S. W. Shattuck, business mgr.	Sundry items .....	65 75

PROCEEDINGS  
OF THE  
BOARD OF TRUSTEES  
OF THE  
UNIVERSITY OF ILLINOIS  
FOR THE  
Year Ending August 31, 1898.

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MEETING OF SEPTEMBER 21, 1897.

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The Board of Trustees of the University of Illinois met in the Trustees' room, Library hall, in Urbana, Illinois, at 3 o'clock p. m., Tuesday, September 21, 1897.

The members present were Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Raymond and Smith and Mrs. Flower and Mrs. Carriel; those absent were Governor Tanner and Messrs. Inglis and Pearce.

The minutes of the meeting of June 8th were approved as presented by the Secretary, on motion of Mrs. Flower.

COMMUNICATIONS FROM PRESIDENT DRAPER.

PHYSICAL TRAINING FOR MEN.

*To the Board of Trustees.*

I have had more anxiety about better provisions for physical training work among the men than touching any other one matter, during the summer vacation. It is not too much to say that under all conditions which have grown up there is practically no opportunity at all for general work of this character among the entire body of students. The military work has come to monopolize Military Hall; and not only so, the structure has never had any adaption whatever to gymnasium purposes. I was disappointed at the failure to construct the addition planned by the Professor of Architecture, but since I have come to know all of the facts I do not see how it was possible without either incurring obligations considerably in excess of all previous understandings about the matter, or contracting the structure so as to make it insufficient for our needs. Since my return I have many times carefully in-



investigated the subject and have come to the conclusion that the wisest course to take will be to remove the wood shop from the upper floor of the old mechanical building and place it in conjunction with the repair shop on the south side of the lower floor of that building, extending it into the room at present occupied by the engines and boilers of the mechanical engineering department, which can be removed by the time the new central heating plant is completed. It would be necessary to contract the space used for the testing laboratory, but this again would be to some extent made good by removing the wide stairway which extends from the outer north side of the building to the second story. Then we would have the entire second floor for a gymnasium. It is spacious and not badly adapted to such use. Lockers and bathing accommodations could be installed in the tower rooms, of which there are four, and also in the space between them on the north side.

In this way we would secure the best provision for athletic work that I believe can be secured within the limits of our special appropriation. I am advised by our architectural department that the changes I have suggested can be carried out, and machinery re-installed as may be necessary, within the limits fixed by the appropriation. It is in my judgment of the highest importance that this matter have early and decisive action, as it is of more consequence that the entire number of students shall have accommodations for physical exercise than that a few shall be trained for team work and intercollegiate games.

A. S. DRAPER,  
*President.*

The following resolution, offered by Mr. McLean, was adopted:

*Resolved*, That the recommendations of President Draper with reference to using the old Military Hall as a gymnasium be adopted, and that the Committee on Buildings and Grounds be, and hereby is, instructed to make the necessary improvements, using therefor the \$3,000.00 appropriated for this purpose by the General Assembly at its last session.

This appropriation was subsequently increased by an assignment of \$1,000.00 from the general fund.

#### ILLINOIS FIELD.

*To the Board of Trustees.*

Matters at Illinois Field are in an unsatisfactory situation. The fence is unsightly and so far decayed as to be practically beyond repair. It is insisted by the athletic authorities that the grounds are not large enough. They are especially anxious to secure a running track a third of a mile in length and wider than the present one. The needs of our own students in this connection are continuous and urgent in the fall and spring terms, and the unfortunate conditions have prevented the use of these grounds for the annual Interscholastic Athletic Meet, which is an occurrence of considerable moment to the University. It seems to me advisable, moreover, that the open ground which we own north of Illinois Field should be enclosed with it, and be better cared for than it has been.

Under all the circumstances, I recommend that the Committee on Buildings and Grounds be requested to make such changes and improvements at Illinois Field in the directions indicated as may seem desirable, and that the sum of \$2,500.00 be appropriated for the purpose.

A. S. DRAPER,  
*President.*

After some discussion, further consideration of improvements at Illinois Field was postponed to the March meeting of the Board.

## GREENHOUSE.

To the Board of Trustees.

Pursuant to your instructions, given at the June meeting, I have investigated the matter of a new greenhouse and herewith submit plans and estimates therefor. I recommend the plan prepared by Messrs. Lord & Burnham, of New York City, which they agree to execute for the sum of \$3,587.68, exclusive of mason work, cement walks, outside connections with the central heating station, and outside plumbing connections; provided we determine to heat the same from the central heating plant, as it seems to me advisable to do. I have made such general inquiry as was possible touching the cost of mason work and heating and plumbing connections outside the structure, and am confident that these can all be constructed so that the entire cost of the building would not exceed \$5,000.00.

The necessity for a new greenhouse is certainly urgent. The present one is, I am told, twenty years old, was never very substantial, and appears to be utterly incapable of use another winter.

A. S. DRAPER,  
*President.*

On motion of Mrs. Flower, the recommendations were referred to the Finance Committee with instructions to report the next day.

## AGRICULTURAL EXPERIMENT STATION.

President Draper submitted a report from Professor Davenport, Director of the Station, including a financial statement; and, in compliance with the recommendations of his report, approved by the Advisory Board, appropriations of Experiment Station funds for the quarter ending December 31, 1897, were made as below:

## FINANCIAL STATEMENT FOR THE YEAR ENDING JUNE 30, 1897.

<i>Receipts.</i>		
Appropriated by Congress .....		\$15,000 00
Balance, other funds .....	\$166 28	
From State Board of Agriculture for analyses of fertilizers .....	140 00	
From Station farm, etc .....	2,878 67	3,184 95
		\$18,184 95
<i>Expenditures.</i>		
Salaries .....	\$7,698 04	
Labor .....	2,634 05	
Publications.....	1,224 42	
Postage and stationery.....	71 59	
Freight and express.....	144 58	
Chemical supplies.....	93 16	
Seeds, plants, and sundry supplies.....	625 94	
Feeding stuffs.....	385 95	
Library.....	336 44	
Tools, implements, and machinery.....	347 98	
Furniture and fixtures.....	140 13	
Scientific apparatus.....	487 67	
Live stock.....	304 99	
Traveling expenses.....	166 69	
Contingent expenses.....	83 30	
Buildings and repairs.....	255 07	\$15,000 00
Other funds.....	\$3,107 75	
Balance other funds.....	77 20	\$3,184 95
		\$18,184 95

## APPROPRIATIONS FOR QUARTER ENDING DECEMBER 31, 1897.

<i>From general fund—</i>		
Salaries.....	\$1,950 00	
Labor.....	750 00	
Publications.....	300 00	
Postage and stationery.....	25 00	
Freight and express.....	40 00	
Heat, light, and water.....	40 00	
Chemical supplies.....	5 00	
Feeding stuffs.....	100 00	
Tools, implements, and machinery.....	125 00	
Scientific apparatus.....	150 00	
Traveling expenses.....	135 00	
Buildings and repairs.....	90 00	
Contingent.....	40 00	
		\$3,750 00
<i>From farm fund—</i>		
Labor.....	\$533 00	
Seeds, plants, and sundry supplies.....	210 00	
		\$743 00

President Draper also presented a communication from Professor Davenport with regard to the Winter School of Agriculture, and also recommending the erection of a building for the shelter of carriages, wagons, and machinery on the farm.

This communication was referred to the Farm Committee for report.

## PAVING ROMINE STREET AND UNIVERSITY AVENUE.

President Draper presented an agreement in duplicate between John W. Stipes and the Board of Trustees of the University of Illinois for paving the west half of Romine street from the north line of West Main street to University avenue, and the south half of University avenue from the west line of Romine street to the east line of Wright street, all in Urbana; and the President and Secretary of the Board were instructed to sign the contract on behalf of the University.

## TELEPHONES.

President Draper presented communications from the telephone companies with regard to telephone service.

On motion of Mr. Smith it was voted to accept, for two years, the proposition of the Champaign and Urbana Phoenix Telephone Company to furnish ten or more telephones for the term of one or more years at \$12.00 each per year.

A request that a scholarship be conferred upon Mr. Ralph O. Edwards, of Belleflower, McLean county, was denied by the following vote:

Yeas—Messrs. McKay and Smith; nays—Messrs. Armstrong, Raymond, McLean, and Bullard, and Mrs. Flower and Mrs. Carriel.

President Draper presented a recommendation from Professor Jones to the effect that the charge for Harmony be reduced from \$10.00 to \$6.00 a term, and it was so ordered.

At the request of the President of the Board, Mr. McLean took the chair for the rest of the session.

The following resolution, offered by Mr. McKay, was adopted:

*Resolved*, That George F. Barrett, of Chicago, a son of a soldier in the late war, be granted an honorary scholarship from Cook county.

On recommendation of Professor Jones, presented by President Draper, it was voted on motion of Mrs. Flower that there should be paid Mr. A. M. Applegate in consideration of services to be rendered as a singer, each term, a sum equal to the amount of his music fees.

#### SCHOOL OF PHARMACY.

The Committee on the School of Pharmacy, complying with an order of the Board passed at its meeting of June 8th, presented the following:

URBANA, ILLINOIS, September 21, 1897.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—The Committee on the School of Pharmacy met with the Faculty of the School at 465 State street, Chicago, on Thursday, September 2, 1897. The meeting was called to order at 10:30 a. m., the Chairman, Mr. McLean, presiding. There were present Messrs. McLean and Bullard, Professor Palmer, representing President Draper and Professor Shattuck, and Professors Goodman, Hallberg, Puckner, and Hereth, and Secretary Day, of the School of Pharmacy.

There were read the following recommendations from the Faculty of the School with regard to the course for the degree of Pharmaceutical Chemist:

“The candidate for this degree first to complete the course for the degree Graduate in Pharmacy, this latter course consisting of two annual terms of not less than twenty-eight weeks each and requiring an attendance of three days a week and about seven hours daily.

“In addition to this course the candidate to take a third term also of twenty-eight weeks or of the same length as each of the Ph. G. terms and extending simultaneously with these. The attendance required during this third term to be five days a week and seven or eight hours daily. The course for this third term to consist of lectures, recitations and laboratory practice in advanced chemistry and bacteriology.”

Mr. Bullard moved that these recommendations be adopted. Discussion brought out the following points: That the expense for providing suitable additional equipment for this course would be from eight hundred to one thousand dollars; that the annual expense for maintaining such a course would be, approximately, for supplies two hundred dollars, for instruction eight hundred dollars.

It was suggested that the fee for this course be seventy-five dollars.

In the case of students who matriculated last year with the intention of competing for the Ph. C. degree under the conditions then in force, it was suggested that such students be allowed to choose between taking a third term or receiving a certificate of having finished the course and, upon obtaining the required drug store experience, receiving the degree of Graduate in Pharmacy. It was also suggested that the Faculty of the School furnish a statement regarding the number of hours of instruction included in this three years course both in total and in each study. [See p. 189.]

HOURS OF INSTRUCTION.

	Pharmacy.				Materia medica—botany.				Chemistry.				Bacteriology.			Total.					
	Lec.	Rec.	Lab.	Total.	Lec.	Rec.	Lab.	Total.	Lec.	Rec.	Lab.	Total.	Lec.	Lab.	Total.	Lec.	Rec.	Lab.	Total.		
U. of I. School of Pharmacy, Ph. G. Course.....	104	52	208	364	104	52	156	312	104	52	208	364	.....	.....	.....	312	*156	572	1,040		
Additional work, three years of Ph. C. Course....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	†900	30	120	†150	.....	.....	.....	1,040		
U. of M. School of Pharmacy	L. & R. 144			360	504	L. & R. 198			72	270	L. & R. 510			1,092	1,602	.....	L. & R. 852			1,524	2,370

\* Recitations are not at present obligatory. † Estimated. ‡ Present course at Medical School.  
 If two weeks were added to each of our Ph. G. terms, making them thirty weeks in length or twenty-eight weeks, excluding vacations, there would be 160 hours added to the above totals, making each Ph. G. term 560 hours; total 1,120 hours; third term of Ph. C. course, 1,120 hours; total, 2,240 hours.

The motion to adopt the recommendation of the faculty was then carried unanimously.

Respectfully submitted,

ALEX. McLEAN,  
J. E. ARMSTRONG,  
S. A. BULLARD,  
A. S. DRAPER,  
S. W. SHATTUCK,

*Committee on School of Pharmacy.*

THIRD YEAR'S WORK FOR THE DEGREE OF PHARMACEUTICAL CHEMIST.

CHEMISTRY.—The course to consist of laboratory work, lectures, assigned reading and recitations, and to embrace:

*Quantitative Analysis* (gravimetric), including water analysis.

*Plant Analysis*.—Isolation and determination of proximate principles—such as sugars, starch, alkaloids, etc.

*Drug Assaying*.

*Physiological Chemistry*.

*Food Analysis*, such as of milk, butter, etc.

BACTERIOLOGY.—Course to be mapped out by the instructor. (It is suggested that the work in this branch be done at the Medical School.)

The following resolution, offered by Mr. McLean, was adopted:

*Resolved*, That in accordance with a recommendation made by the State Pharmaceutical Association, at its meeting recently held in Springfield, Hon. William J. Frisbie, of Bushnell, Ill., be appointed a member of the Advisory Board of the School of Pharmacy for term ending in June, 1903.

The Secretary was directed to notify Mr. Frisbie of this appointment and also the Faculty of the School of Pharmacy.

A request from Professor Myers that provision be made for heating the Observatory was not granted.

Upon recommendation of President Draper \$175.00 was appropriated for the department of applied chemistry.

Also upon recommendation of President Draper, \$500.00 was appropriated for the department of physiology.

President Draper presented a request from Professor Breckenridge for an appropriation of \$150.00 a term for the year to be used for operating expenses for the Mechanical Laboratory.

It was moved by Mr. McKay that this appropriation be granted, and during the consideration of this motion the Board adjourned to meet at 9:30 o'clock Wednesday morning.

WEDNESDAY MORNING SESSION.

When the Board met pursuant to adjournment the same members were present as at the preceding session on Tuesday.

The motion which was under consideration when the Board adjourned was lost.

It was moved by Mr. Armstrong that \$60.00 be appropriated for this term to pay for student labor in the mechanical engineering

shops. This motion prevailed by the following vote: Yeas—Messrs. Armstrong, Raymond, McLean, and McKay and Mrs. Flower; nays—Messrs. Morrison, Bullard, and Smith and Mrs. Carriel.

The request presented by Professor Breckenridge that commercial work be done in the shops by students employed for that purpose was not granted.

Mr. W. H. Zimmerman was appointed engineer in the shops in place of John Doughty, resigned.

The Business Manager was authorized to make, together with Professor Breckenridge, a sale of such boilers as were not needed in the new heating plant.

The following communication was received from Professor Ricker, and his acceptance of the appointment therein referred to was approved:

URBANA, ILLINOIS, September 20, 1897.

*To the President and Board of Trustees of the University of Illinois.*

GENTLEMEN:—I beg leave to inform you that, with the consent and approval of the President of the University, I have accepted the Governor's appointment and commission as a member of the State Board of Examiners of Architects, as the law requires a member of the Faculty of this University to serve on this Board. My work will be so arranged that none of my classes will be omitted or postponed, and I sincerely believe that the advantages resulting to the University and to the architectural department will abundantly compensate the institution for the time that I shall necessarily be absent in attendance on the meetings of the Board. Had I thought otherwise, I should have declined the appointment.

Very respectfully submitted,

N. C. RICKER,

*Professor of Architecture.*

Upon the request of Miss Sharp, approved by President Draper, the following appointments were made: Mr. H. A. Grossberg, to assist in care of the law library, his compensation to be determined by the Business Manager; Miss Annie Fossler, assistant in class and reference work, for ten months at \$50.00 a month; Miss Georgia E. Hopper, assistant in the library, for ten months at \$30.00 a month; Miss Adelaide M. Chase, assistant in the library, at \$25.00 a month for ten months; Mr. Leo Smith, assistant in the library, at \$30.00 a month for ten months.

The following resolution, offered by Mrs. Flower, was adopted:

*Resolved*, That it is the sense of this Board that student labor should be employed so far as practicable, and that the President of the University be directed to prepare a scheme for the same to present to the Board at the December meeting.

Mr. Morrison moved that a committee of three be appointed to consult with the Fair Association of Champaign county and ascertain whether or not satisfactory arrangements could be made by which the Athletic Association of the University might use the grounds of the Fair Association, and to report at the next meeting of the Board. This motion was lost on the following vote: Yeas—Messrs. Morrison, McLean, Smith, and McKay; nays—Messrs. Armstrong, Raymond, and Bullard and Mrs. Flower and Mrs. Carriel.

The Finance Committee reported back the recommendation with regard to a greenhouse (see page 186) and advised its adoption.

Mr. Smith moved that the plans for a greenhouse made by Messrs. Lord and Burnham and their proposition for the erection of the same be accepted; that the sum of \$5,000.00 be appropriated for the construction of the building, heating apparatus, lighting, and walks, and that the Committee on Buildings and Grounds, President Draper being associated with the committee in this matter, be instructed to proceed at once with the work. This motion was adopted.

Mr. Raymond reported from the Farm Committee recommending the appropriation of \$100.00 for the Winter School in Agriculture, and \$800.00 for the erection of a suitable building for a wagon-house and the shelter of farm machinery, etc. The recommendation of the committee was adopted and money was appropriated in accordance therewith.

#### REPORT OF COMMITTEE ON BUILDINGS AND GROUNDS.

The following report from the Committee on Buildings and Grounds was received and ordered printed:

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your Committee on Buildings and Grounds begs leave to make the following report of its actions on the matters in its hands. The Committee has had charge of the improvements ordered by the Board, which have been more extensive than usual. The committee has had several meetings from time to time during the summer at which most of the members were present.

*Library Hall*—The library building was completed and accepted the first part of August, and settlement made with the contractors. Mr. Gleason, the sub-contractor for the brick and stone masonry, filed a claim for about \$5,000.00 for extra work and damages for delays caused by the general contractor. It seemed very probable that the settlement of this dispute would go into the courts and delay our settlement with the contractors unless we could make other arrangements. Your committee, therefore, ordered the payment of all the bills of sub-contractors in full, except that of Mr. Gleason, and the taking of a bond from the contractors to the amount of \$10,000.00 to make good any losses that might fall to the University in the settlement of the disputed claim. The final settlement on the library building can not be made until the dispute between the general contractor and Mr. Gleason has been adjudicated.

The building itself seems very well built and your Committee and the architects are well pleased with the work done by the contractors, The H. M. R. Construction Company.

*Decoration of Library Hall*—Early in the summer the Committee took up the subject of decorating the library building. The architects laid before the Committee several designs in competition from prominent decorative artists, which the Committee considered very carefully. As a result of the competition Professor N. M. Wells, of New York, was engaged to do the decorative work for the sum of \$3,500. The members of the Committee were very much pleased with Mr. Wells's designs and have no doubt that when the work is completed it will be admired by all who visit the library building. This work is going on now, the more elaborative decorative features to be finished later in the year.

*Apportionment of Rooms in Library Hall*—It was decided by the Committee that the new Library School should be given the room above the book stacks and that an iron stairway be put in that story to the book room below. The west basement wing was set apart for the Art Gallery, the east basement



wing was unassigned but will be used temporarily for lockers for men. The two toilet rooms of the basement, a part of the hall, and a part of the east basement wing will be provided with lockers in which students may place wraps during school hours. The provisions for the library and for the administration offices occupy the remainder of the building.

*Removal of Art Gallery and Library to Library Hall*—The Committee ordered that the art gallery and library be removed into the new building as soon as the work of building was completed, and the work of removal was put into the charge of Professors Burrill, Shattuck, and Bicknell. The work has been done during the summer, and now the building is in good condition and the art gallery and library are ready for the year's work.

*Re-arrangement of Rooms in University Hall*—The vacating of the library, administrative offices, and art gallery in University Hall left a large part of the building unassigned. The Committee ordered the rooms vacated by the library changed into rooms for the use of the Law School to be opened this year, and the rooms vacated by the art gallery divided up into rooms to be used for the musical department. The ladies' parlor was to be the room occupied by the President, and the Dean of the literary department was to have the room occupied by the Business Manager and Registrar as his recitation room, and the office occupied by the secretary to the President as his office. Other minor changes were ordered in the building, and the duty of looking after the making of all these changes was put in charge of Dr. Burrill, Professors Ricker and White to have charge of the construction part of work.

*Chemical Laboratory, Temporary Quarters*—The failure of the legislature to make an appropriation for an enlargement of the Chemical Laboratory necessitated doing a part of the laboratory work in the University Hall. As soon as the heating apparatus buildings are completed, the electrical department will be taken to those buildings and the space now occupied by the electrical department can easily be utilized for the chemical laboratory. The buildings, however, not being completed before school commenced this fall, it became necessary to make such temporary arrangements for the laboratory as were absolutely necessary, which has been done in using some of the basement rooms.

*Natural History Hall*—The natural history building, which was damaged by lightning and fire during the summer, has been repaired and is now ready for use again. It has been the aim of the committee to put the building into the same condition as it was before, as nearly as possible, and this has been done at an expense of about \$3,600.

*Central Heating, Lighting, and Power Plant*—Immediately after the adjournment of the Board in June the committee took up the consideration of the central heating, lighting, and power plant. A general plan for this plant had been worked out by Professor Breckenridge prior to the meeting of the committee. The location of the plant was fixed on the north side of Silver Creek between Burrill avenue and the east line of the University property.

A large boiler house was to be placed near the east line with sufficient room for our present need and for an enlargement of half the present capacity, and for the storage of five hundred tons of coal. Just west of the boiler house and between it and Burrill avenue was to be a large and handsome building for the location of engines and dynamos, and also having capacity for experimental laboratories for the mechanical and electrical engineering departments. Some rooms for offices, recitations or lectures, and for computing were provided. From these buildings a tunnel, large enough for a person to walk in, was to be constructed south and north to the different University buildings. In this tunnel were to be placed steam pipes for the heating of the buildings, water pipes for the supply of water if necessary, and electric wires for lighting and power purposes for the different buildings. The committee placed the architectural work in charge of C. D. McLane and S. J. Temple, the engineering features under the charge of Professor Breckenridge, and the electrical features under the charge of Professor Carman. Under the order of the Board the committee also employed Mr. Charles E. Armstrong, of Chicago, as an engineering and electrical expert to examine and approve the general and detail features of the heating plant. The amount of compensation was not agreed upon with these individuals but your committee expects to keep this

within the customary fee of five per cent. of cost. As soon as it was possible to have plans and specifications made for the different parts of the work bids for the construction of the same were called for. Different parts of the work were contracted for and the work is now in process of construction with the expectation of having it entirely completed by the first of December, 1897. Your committee is very much pleased with the general plan of the plant and believes that when it is completed it will be the best and finest plant of the kind in the United States. It has been the constant effort of the committee to keep within the amount of appropriation, \$80,000.00, as made by the legislature, and we believe that we shall be able to do so very nearly, if not entirely. The committee has felt some embarrassment, however, in making different contracts for the different parts of the work, in that only one-half of the appropriation is available at the present time and that the second half will not be available until July 1, 1898. On the assurance of the President of the Board and of the Finance Committee that arrangements can be made for the latter half of the appropriation, your committee has made contracts exceeding the amount of money now on hand and will continue to do so unless otherwise ordered. We trust that there will be no further embarrassment on that account.

*Tunnels*—Bids for the construction of the south side tunnels were received on June 29th and opened

The following were the bids:

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S. H. Garrison, Urbana.....	\$8,875 00
John B. Bennett, Urbana.....	7,937 30
Horace Irwin, Springfield.....	8,839 00
Flick & Johnson Construction Co., Davenport, Iowa.....	9,600 00
Caleb & Couture, Bridgeport, Ohio.....	13,990 00

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The contract was awarded to John B. Bennett, of Urbana, after reducing his bid a small amount by substituting for the brand of cement specified a different brand, which, in the opinion of Professor Talbot, after experiment, was equally as good. Mr. Bennett undertook the work at once and has finished it very satisfactorily. The work was generally completed in the time stipulated in the contract. A part was left undone in order that the piping might more easily be placed in the tunnels. This has been done and the work is now fully completed.

*Piping in the South Tunnels*—As as possible after the tunnel contract was under way bids were called for for the steam piping to be placed in the tunnels. Five bids were received for that work as follows:

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Robinson & Burr, Champaign, Ill.....	\$1,450 00
Hubbard & Sons, Urbana, Ill.....	1,914 00
Carson & Co., Chicago, Ill.....	1,590 00
L. H. Prentice & Co., Chicago, Ill.....	2,390 00
Samuel I. Pope, Chicago, Ill.....	2,179 00

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The work was given to Robinson & Burr at their proposal, \$1,450.00, and the work was pushed forward to completion as rapidly as possible. There was a delay for a short time on account of the difficulty under which the iron piping was obtained, but the work is now done and ready for service.

*Pipe Covering in Tunnels*—Two bids were received for pipe coverings in tunnels, one from H. W. Johns Manufacturing Co., of Chicago, for asbestos covering, varying from \$1,200.00 to \$1,600.00, according to quality, and one from Walch and Wyeth Co., Chicago, for magnesia coverings, varying from \$1,250.00 to \$1,730.00, according to quality. After looking into the merits of different materials it was thought best to award the contract to Walch & Wyeth, putting a first grade covering on the supply steam pipes and a second grade covering on the return pipes. This we succeeded in doing for \$1,500.00 and entered into contract for that amount. The dampness that is unavoidable in tunnels of this character makes the magnesia covering very superior on that account to asbestos.

*Heating Plant Buildings*—The specifications and drawings were completed for the heating plant buildings consisting of an engine and dynamo house, a boiler house, and a chimney stack 150 feet high, and bids called for to be opened July 9th. The bids for the construction of these buildings were as follows:

J. C. Robinson, Chicago, Ill.....	\$48,366 00
Valentine Jobst, Peoria, Ill.....	39,500 00
W. M. Crilly, Chicago, Ill.....	36,827 00
John Cox & H. K. McDonald, Chicago, Ill.....	49,909 00
J. W. Evans Sons Co., Bloomington, Ill.....	39,613 00
M. Yeager & Son, Danville, Ill.....	40,839 00
Warren R. Roberts, Chicago, Ill.....	42,500 00
Richard Mohn, Chicago, Ill.....	42,590 00
Edward D. Gleason, Chicago, Ill.....	39,500 00
Angus J. C. Ledgerwood, Chicago, Ill.....	56,400 00
W. Morava, Chicago, Ill.....	40,927 00

The committee, not having positive information of getting the latter half of our appropriation by the time of the completion of the buildings, offered the work to Mr. Grilly, who was the lowest bidder, on the condition that he agree to take \$25,000 in part payment as the work proceeded, the balance not to be paid until the first of July, 1898. This he refused to do and the committee thought best to reject all the proposals and call for proposals for the buildings separate instead of in one contract. This the committee did, opening the bids on July 23rd, with the following result:

*The engine and dynamo building—*

W. F. Hoyle, Lincoln, Ill.....	\$25,250 00
Edward Gleason, Chicago, Ill.....	25,385 00
Mr. Morava, Chicago, Ill.....	25,740 00
Richard Mohn, Chicago, Ill.....	24,850 00

*Boiler house and chimney—*

W. F. Hoyle, Lincoln, Ill.....	\$14,000 00
Edward Gleason, Chicago, Ill.....	15,700 00
J. C. Sedgewick, Champaign, Ill.....	16,796 74
W. Morava, Chicago, Ill.....	13,945 00
Richard Mohn, Chicago, Ill.....	14,600 00

It was left optional with the contractor as to whether he bid on the buildings separate or all in one bid.

The following were the bids received for all the buildings together and not separate:—

Congress Construction Co., Chicago, Ill.....	\$38,500 00
J. W. Evans Sons Co., Bloomington, Ill.....	39,400 00
V. Jobst, Peoria, Ill.....	39,199 00
M. Yeager & Son, Danville, Ill.....	37,935 00
W. R. Roberts, Chicago, Ill.....	38,400 00
Edward Gleason, Chicago, Ill.....	39,500 00

M. Yeager & Son, of Danville, being the lowest bidders, either combined or separate, the contract was awarded to them. They immediately commenced work and now have a large part of their work done. They are under contract to have it done by the first of December, 1897, and we have little doubt but that the work will be completed on time.

*Boilers*—It became necessary to increase our boiler capacity 250 horse power. It was thought best to use a water tube boiler and to employ a patent Murphy furnace in connection with it, one boiler of that capacity being better and cheaper than several of smaller sizes. On a call for proposals for this work, one boiler equipped with Murphy furnace, we received the following bids:

Standard Boiler Co., Chicago, Ill.....	\$3,700 00
Abernathy & Root, Chicago, Ill.....	3,900 00
Heine Safety Boiler Co., St. Louis, Mo., for down draft furnace but without Murphy furnace.....	3,500 00
National Water Tube Boiler Co., New Brunswick, N. Y.....	3,448 00
Babcock & Wilcox Co., N. Y.....	4,297 00

The contract was given to the National Water Tube Boiler Co., the boiler to be put in as soon as the new boiler house is ready to receive it.

*Coal and Ashes Handling Machinery and Storage for Coal*—It was the purpose to make preparations for the storage of 500 tons of coal. Plans were prepared and bids were asked for the putting in of bins for this storage and for machinery for handling coal and ashes.

Bids were received as follows:

Link Belt Machinery Co., Chicago, Ill.....	\$5,350 00
Jeffrey Mfg. Co., Columbus, Ohio.....	5,350 00

The contract was awarded to the Link Belt Machinery Co. at its bid, after duly considering the quality of the machinery proposed to be put in. This will be put in at a time suitable, so that it will be ready for use by the first of December.

*Heating the Engine and Dynamo House*—Bids were received for putting in heating apparatus for this building, as follows:

Robinson & Burr, Champaign, Ill.....	\$668 00
Hubbard & Sons, Urbana, Ill.....	640 00

The contract was awarded to Hubbard & Sons.

*Laying Water Main*—The committee ordered the laying of a 6 inch water main from the connection on Springfield avenue south on Burrill avenue to Green street, and a fire hydrant placed on this line south of the creek. From this 6-inch line a 4-inch pipe is to be laid east into the boiler house to furnish water to the heating apparatus. This work is to be done under the direction of Professor Talbot and as cheaply as the work can be secured.

*Cement Walks*—The committee laid out plans for new and additional concrete walks necessary for our grounds and contracted with Mr. P. E. Taintor, of Springfield, who did work for us last year. Contracts were made at 15 cents per square foot. These walks are down and are very satisfactory.

*Gymnasium*—Soon after the adjournment of the June meeting of the Board the committee took up the question of making suitable accommodations in bath rooms and lockers for the athletic and gymnasium department for which an appropriation of \$3,000 was obtained from the legislature. After having several plans and schemes for enlarging and adding to the present military building, providing for bath rooms, lockers, waiting rooms, etc., prepared by Professor Ricker and estimates made thereon, your committee could not get what would be at all adequate to the necessities of the case for the amount of money at command. The matter was brought to the attention of the Executive Committee and that committee asked to enlarge the appropriation. This, however, was deemed unwise by the Executive Committee, and the additional money, some \$2,200.00, was not provided for. It was, therefore, thought best by the committee to lay the improvement aside till the matter could be discussed by the board.

*Paving University Avenue and around the Campus*—Your Committee asked Professor Talbot to look after the interests of the University in paving University Avenue and the street east of our campus in conjunction with the city of Urbana, and in accordance with an ordinance passed by the Urbana city council. It was thought best to have our contract made directly with the

contractor, to have stone curbing put in instead of wood as contemplated by the city ordinance, and to have the work put in satisfactorily in every way. This arrangement has been made, and contracts will be submitted to the Board at this meeting for this work.

*Bridge across Silver Creek*—Your Committee asked Professor Baker to submit a plan or design for a bridge across Silver Creek at Burrill Avenue. The bridge was to be of the width necessary for a pavement on Burrill Avenue, should the paving of Burrill Avenue be consummated. The amount of money to be used in the construction of this bridge was \$500.00, appropriated by the Legislature. The preliminary estimates went to show that such a bridge as we thought desirable for the place, together with abutments for the same, could not be built for the money appropriated. Therefore your Committee asked Professor Baker to get further bids on the work and see if it were possible to reduce the cost to the amount of money we have for this improvement. This matter has not seemed urgent and your Committee may not complete the bridge before next year.

*Protection of Water Fixtures*—It was reported to your Committee by Professor Talbot that it would be desirable to protect the water fixtures in the engineering building from damage by high pressure, which is considerable during the time of a fire, by putting in valves whereby the plumbing fixtures can be cut off from the water supply pipes and yet admit the water to the standpipes in the building. Your Committee, therefore, ordered that change to be made at an estimated cost of \$30.00 to \$35.00. This we feel was necessary to protect the fixtures and give the best water service to the building.

*Ventilators for the Basement of Military Hall*—It was reported to your Committee by Professors Ricker and White that the floor of Military Hall is rapidly decaying and in some places already injured beyond repair. The cause of this rapid decay is the insufficient ventilation of the space beneath the floor. We, therefore, asked Professor Ricker to obtain proposals for putting in ventilators large enough and sufficient in number for that purpose. It was ascertained that eight ventilators could be put in, two on each of the four sides, for \$64.00 and your Committee ordered the work done. This we believe will have the effect of stopping any further rapid decay in the floor of that building. It should have been done years ago. The oversight was made in the construction of the building, Professor Ricker says, by setting the floor down lower than originally contemplated and practically closing the openings that were originally intended for ventilating purposes. We are thus now tardily doing what the first plans for the building called for.

Respectfully submitted,

S. A. BULLARD,  
J. E. ARMSTRONG,  
L. L. FLOWER,  
I. S. RAYMOND,

*Committee on Buildings and Grounds.*

On motion of Mrs. Carriel it was voted that it is the sense of this Board that a building costing \$10,000.00, or more, to be used as a home for young women of the University, would be of great benefit to the University, and that the Board would approve the erection of such a building by private enterprise.

Mrs. Flower moved that the new greenhouse be placed on the west side of Burrill avenue, fronting the heating plant.

The motion prevailed by the following vote: Yeas—Messrs. Morrison, Armstrong, Raymond, McLean, and Smith and Mrs. Flower and Mrs. Carriell; nays—Messrs. Bullard and McKay.

The Business Manager presented his report, which was referred to the Finance Committee.

## BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, September 21, 1896.

*F. M. McKay, Esq., President of the Board of Trustees, University of Illinois.*

SIR:—I have the honor to present to you herewith the following report:

*Paper A* is a statement of the current appropriations for the year ending June 30, 1897.*Paper B* is a statement of the State appropriations for the same time.*Paper D* is a statement of the Laboratory of Natural History appropriations for the same time.*Paper E* is a statement of the Agricultural Experiment Station appropriations for the same time.*Paper F* is a statement of the School of Pharmacy appropriations for the same time.*Paper G* is a statement of the School of Medicine appropriations for the same time.*Paper H* is an estimate of receipts and expenses for the twelve months ending June 30, 1898.*Paper I* is a list of appropriations for the three months ending December 31, 1897.*Paper L* is a statement of moneys received by me for the three months ending June 30, 1897.*Paper M* is a list of the general University vouchers presented for audit, being 1,882 to 2,200, inclusive.*Paper N* is a list of the Laboratory of Natural History vouchers presented for audit, being 247 to 286, inclusive.*Paper O* is a list of the Agricultural Experiment Station vouchers presented for audit, being 280 to 400, inclusive.*Paper P* is a list of the School of Pharmacy vouchers presented for audit, being 160 to 176, inclusive.*Paper Q* is a list of the School of Medicine vouchers presented for audit, being 1 to 75, inclusive.

## PAPER A—CURRENT APPROPRIATIONS.

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
Board expenses .....	\$1,746 88	\$1,154 62	\$592 26
Salaries for instruction and for President {	101,545 56	{ 10,188 98	{ .....
{ Current.....		{ 22,000 00	{ .....
{ U. S. Fund.....		{ 69,361 58	{ .....
{ State.....		{ 9,315 88	{ .....
Salaries for services {	13,511 70	{ 4,195 82	{ .....
{ Current.....		{ 1,802 82	{ 281 58
{ State.....		{ 5,755 34	{ 2,199 67
Buildings and grounds.....	2,084 40	1,534 31	609 11
Fuel and lights .....	7,955 01	4,909 79	40 21
Stationery and printing .....	2,143 42	1,539 23	.....
Preparatory School.....	4,950 00	1,480 89	650 53
Repair shop.....	1,539 23	322 29	920 75
Mechanical Department .....	2,131 42	2,807 72	937 63
Departments.....	1,233 04	94 46	103 18
Laboratories.....	3,745 35	1,548 83	422 77
Library and apparatus.....	197 64		
Incidental expenses .....	1,971 60		

*Paper A—Current Appropriations—Concluded.*

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
<i>Sundries.</i>			
Closed out.....	1,582 15	1,582 15	.....
Furniture and fixtures.....	496 48	389 50	106 98
Heating apparatus.....	882 65	192 10	690 55
Water supply.....	500 00	375 00	125 00
Minnesota lands.....	100 00	77 28	22 72
Greenhouse.....	141 17	140 92	25
Commencement.....	600 00	212 50	387 50
Stone posts.....	160 00	.....	160 00
Tenant farming, etc., in Illinois.....	75 00	70 40	4 60
South farm.....	125 00	22 85	102 15
Accredited high schools.....	30 00	30 00	.....
Court expenses.....	22 40	22 40	.....
State Fair exhibit.....	500 00	.....	500 00
Catalogue.....	1,000 00	8 41	991 59
Publication of essay.....	75 00	.....	75 00
	\$151,055 10	\$141,131 07	\$9,924 03

## PAPER B—STATE APPROPRIATIONS.

<i>June 30, 1897.</i>	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc.—</i>				
Closed out.....	\$18,851 81	\$18,851 81	.....	.....
Salaries for instruction.....	132,463 13	132,463 13	.....	.....
Salaries for services.....	4,195 82	4,195 82	.....	.....
Heating apparatus.....	1,200 00	1,076 42	\$123 58	\$123 58
Buildings and grounds.....	3,800 00	3,255 32	544 68	544 68
Toilet rooms.....	375 00	294 22	80 78	80 78
Art and design.....	250 00	184 45	65 55	65 55
Physical training.....	1,220 00	959 06	260 94	260 94
School of Music.....	2,250 00	2,217 10	32 90	32 90
Lectures.....	519 17	.....	519 17	519 17
Agriculture.....	3,750 00	3,703 98	46 02	46 02
Preparatory School.....	190 00	129 75	60 25	60 25
Advertising.....	3,900 00	3,251 91	648 09	648 09
College of Literature and Arts, books.....	200 00	166 31	33 69	33 69
<i>Illini</i> .....	500 00	500 00	.....	.....
Accredited schools.....	500 00	319 51	180 49	180 49
<i>Technograph</i> .....	100 00	100 00	.....	.....
Signal bells.....	100 00	82 92	17 08	17 08
Botany (herbarium, etc.).....	150 00	11 35	138 65	138 65
Mechanical engineering laboratory.....	695 00	416 89	278 11	278 11
Chemical laboratory (repairs.).....	9,180 00	8,902 12	277 88	277 88
Furniture and fixtures.....	400 00	50 94	349 06	349 06
Furnishing Astronomical Observatory.....	555 00	287 83	267 17	267 17
Zoological department.....	95 00	18 40	76 60	76 60
Bronze tablet.....	175 00	.....	175 00	175 00
Physics.....	600 00	549 43	50 57	50 57
Law school.....	3,500 00	.....	3,500 00	3,500 00
	\$189,714 93	\$181,988 67	\$7,726 26	\$7,726 26
<i>Apparatus and materials—</i>				
Closed out.....	\$1,700 00	\$1,700 00	.....	.....
Applied chemistry.....	100 00	12 70	\$87 30	\$87 30
Chemistry.....	700 00	588 66	111 34	111 34
Psychology.....	300 00	258 66	41 34	41 34
Zoölogy.....	800 00	698 75	101 25	101 25
Physiology and hygiene.....	800 00	605 86	194 14	194 14
Botany and horticulture.....	680 00	661 02	18 98	18 98
Geology.....	400 00	328 51	71 49	71 49
Astronomy.....	520 00	390 65	129 35	129 35
	\$6,000 00	\$5,241 81	\$755 19	\$755 19

*Paper B—State Appropriations—Concluded.*

<i>June 30, 1897.</i>	Received.	Expended.	Balance	Assigned.
<i>Operating Biological Experiment Station.....</i>	\$3,000 00	\$2,731 09	\$268 91	\$268 91
<i>Biological Experiment Station, equipment ....</i>	\$2,500 00	\$2,500 00	.....	.....
<i>Paving streets, 'etc.....</i>	\$9,300 00	\$9,300 00	.....	.....
<i>Laboratory of Vegetable Physiology.....</i>	\$2,000 40	\$1,949 14	\$50 86	\$50 86
<i>Astronomical Observatory.....</i>	\$15,000 00	\$12,764 88	\$2,235 12	\$2,235 12
<i>Library Hall.....</i>	\$150,000 00	\$126,495 87	\$23,504 13	\$23,504 13
<i>Fire protection.....</i>	\$2,000 00	\$1,679 95	\$320 05	\$320 05
<i>Library.....</i>	\$6,000 00	\$5,959 05	\$40 95	\$40 95
<i>Shop practice.....</i>	\$3,000 00	\$2,854 41	\$145 59	\$145 59
<i>Chemical Laboratory.....</i>	\$5,000 00	\$4,899 12	\$100 88	\$100 88
<i>Taxes on Minnesota lands.....</i>	\$3,200 00	\$3,200 00	.....	.....
<i>Vaccine Laboratory.....</i>	\$3,000 00	\$1,718 14	\$1,281 86	\$1,281 86
<i>Cabinets—</i>				
<i>Geology.....</i>	\$666 67	\$353 90	\$312 77	\$312 77
<i>Botany.....</i>	666 66	31 00	635 66	635 66
<i>Zoölogy.....</i>	666 67	.....	666 67	666 67
	\$2,000 00	\$384 90	\$1,615 10	\$1,615 10
<i>College of Engineering—</i>				
<i>Machine shop.....</i>	\$17,008 04	\$17,008 04	.....	.....
<i>Mechanical engineering.....</i>	3,104 85	3,104 85	.....	.....
<i>Electrical engineering and physics.....</i>	3,829 85	3,457 02	\$372 83	\$372 83
<i>Civil engineering.....</i>	1,852 42	1,786 30	66 12	66 12
<i>Laboratory of Applied Mechanics and</i>				
<i>Municipal and Sanitary Engineering..</i>	1,852 42	1,429 47	422 95	422 95
<i>Architecture.....</i>	1,752 42	1,538 83	213 59	213 59
<i>College of Engineering.....</i>	600 00	370 12	229 88	229 88
	\$30,009 00	\$28,694 63	\$1,305 37	\$1,305 37
<i>Furnishing and Fitting Engineering Hall—</i>				
<i>Electric wiring.....</i>	\$1,191 77	\$1,191 77	.....	.....
<i>Civil engineering.....</i>	478 43	448 07	\$30 36	\$30 36
<i>Architecture.....</i>	770 38	631 03	139 35	139 35
<i>Municipal and Sanitary Engineering.....</i>	401 30	375 92	25 38	25 38
<i>Mechanical department.....</i>	563 78	421 13	142 65	142 65
<i>Electrical engineering and physics.....</i>	1,193 39	1,007 06	186 33	186 33
<i>College library, parlor, etc.....</i>	400 96	274 76	126 19	126 19
	\$5,000 00	\$4,349 74	\$650 26	\$650 26

PAPER I—LABORATORY OF NATURAL HISTORY.

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
<i>General balance July 1, 1896.....</i>	\$246 73	.....	\$246 73
<i>Salaries.....</i>	3,650 00	\$3,573 46	76 54
<i>Field office, etc.....</i>	1,500 00	1,500 00	.....
<i>Library.....</i>	1,000 00	816 58	183 42
<i>Bulletins.....</i>	500 00	495 77	4 23
<i>Report of Entomologist.....</i>	250 00	67 00	183 00
<i>Contagious diseases of insects.....</i>	1,500 00	850 58	649 42
<i>Biological Experiment Stat on.....</i>	1,500 00	1,497 28	2 72
	\$10,146 73	\$8,800 67	\$1,346 06



## PAPER E—AGRICULTURAL EXPERIMENT STATION.

<i>June 30, 1897.</i>	Appropriated.	Expended.
<i>General Fund—</i>		
Salaries .....	\$7,698 04	\$7,698 04
Labor.....	2,634 05	2,634 05
Publications.....	1,224 42	1,224 42
Postage and stationery.....	71 59	71 59
Freight and express.....	144 58	144 58
Chemical supplies.....	93 16	93 16
Seeds, plants, sundries.....	625 94	625 94
Feeding stuffs.....	385 95	385 95
Library.....	336 44	336 44
Tools, implements, and machinery.....	347 98	347 98
Furniture and fixtures.....	140 13	140 13
Scientific apparatus.....	487 67	487 67
Live stock.....	304 99	304 99
Traveling expenses.....	166 69	166 69
Contingent expenses.....	83 30	83 30
Buildings and repairs.....	255 07	255 97
	\$15,000 00	\$15,000 00
Farm fund .....	\$3,107 75	\$3,107 75

## PAPER F—SCHOOL OF PHARMACY.

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
Salaries for instruction .....	\$4,500 00	\$4,499 81	\$0 19
Salaries for services.....	1,250 00	1,250 00	.....
Buildings and grounds.....	2,940 00	2,862 96	77 04
Fuel and lights.....	578 54	372 66	205 88
Stationery and printing.....	200 00	198 46	1 54
Furniture and fixtures.....	100 00	40 76	59 24
Laboratories.....	1,260 00	1,230 29	29 71
Incidentals.....	420 23	336 17	84 06
Sundries.....	1,753 52	1,695 54	57 98
Advertising.....	1,096 46	1,096 46	.....
Museum.....	25 00	2 25	22 75
	\$14,123 75	\$13,585 36	\$538 39

## PAPER G—SCHOOL OF MEDICINE.

<i>June 30, 1897.</i>	Appropriated.	Expended.
Salaries for instruction.....	\$525 02	\$525 02
Salaries for services.....	819 21	819 21
Buildings and grounds.....	181 50	181 50
Fuel and lights.....	138 62	138 62
Stationery and printing.....	81 13	81 13
Laboratories.....	6 00	6 00
Apparatus and materials.....	236 64	236 64
Incidental.....	44 60	44 60
Advertising.....	1,055 71	1,055 71
	\$3,088 43	\$3,088 43

## PAPER L—RECEIPTS FOR THE THREE MONTHS ENDING JUNE 30, 1897.

Term fees, etc., (University students).....	\$4,542 50	
Diploma fees.....	520 00	
Music.....	195 00	
Term fees, etc., Preparatory School.....	1,343 75	
		\$6,601 25.
Rent of south farm.....	\$1,235 93	
Minnesota lands, rent.....	10 00	
Buildings and grounds.....	15 00	
		1,260 93.
Greenhouse, sales.....	\$178 07	
Fuel and lights.....	28 44	
Agricultural Experiment Station.....	551 02	
Repair Shop.....	15 00	
Mechanical department and laboratory.....	48 63	
Military.....	5 35	
		826 51
Laboratory of applied mechanics.....	\$15 00	
Civil engineering.....	113 15	
General engineering drawing.....	129 62	
Chemical laboratory.....	820 21	
Zoological laboratory.....	51 89	
Mineralogical laboratory.....	4 03	
Geological laboratory.....	27 93	
Physical laboratory.....	248 50	
Electrical laboratory.....	97 00	
Botanical laboratory.....	11 00	
Psychological laboratory.....	18 00	
Physiological laboratory.....	28 60	
Preparatory.....	53 81	
		1,619 64
Interest on land contracts.....	\$292 22	
Interest from Globe Savings Bank.....	12 11	
		304 33.
School of Medicine, fees.....		3,152 00.
		\$13,764 66

Your attention is called to the bill of Wilson, Moore & Melvaine, presented herewith as *Paper R*, and to their claim of \$1,597.50 for services and expenses. Also to the payment of \$500.00 as a retainer fee to the attorney at Red Oak, Iowa.

The present contract for water service will expire January 1, 1898, and that for gas expires December 17, 1897. The Board is requested to take timely action in these matters.

Respectfully submitted,

S. W. SHATTUCK,  
*Business Manager.*

## TREASURER'S REPORT.

The Treasurer's report, presented by Professor Shattuck, was also referred to the Finance Committee.

E. G. KEITH, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,

AUGUST 31, 1897.

1897.		<i>Dr.</i>		
April	28	U. S. Experiment Station warrant, due April 1. ....	\$3,750 00	
May	10	Remittance from S. W. Shattuck, on account of School of medicine. ....	2,000 00	
"	18	Payment on land contract. ....	250 00	
June	8	Appropriation for Chemical Laboratory repairs. ....	9,714 93	
"	22	Payment on land contract. ....	200 00	
"	26	From S. W. Shattuck, paid warrants on account of Experiment Station. ....	367 71	
"	26	From S. W. Shattuck, paid warrants on account of general fund. ....	1,829 75	
"	26	Received from land contract. ....	1,350 00	
July	6	U. S. appropriation for Experiment Station, due July 1st	3,750 00	
"	19	Received from S. W. Shattuck, for School of Pharmacy	170 47	
"	19	Received from S. W. Shattuck, for School of Medicine.	1,000 00	
"	19	Received from State Treasurer, general appropriation.	76,650 00	
"	19	Received from S. W. Shattuck, for Experiment Station.	183 31	
"	19	Received from State Treasurer, for Laboratory of Natural History. ....	5,150 00	
"	26	Received from State Treasurer, for survey of water in Illinois. ....	750 00	
"	26	Received from State Treasurer in error. ....	63 45	
August	9	Received from S. W. Shattuck, for School of Medicine.	919 00	
"	21	Received from State Treasurer, for completing library	2,500 00	
"	21	Received from State Treasurer, for central heating plant. ....	25,000 00	
"	25	Received from S. W. Shattuck, paid warrants. ....	3,576 61	
"	30	Received from State Treasurer, U. S. appropriation due August 1. ....	23,000 00	\$162,175 23
1897.		<i>Cr.</i>		
August	19	By amount paid out of general fund, as per list of warrants herewith. ....	\$75,859 25	
"	19	By amount paid out of endowment fund sent to State Treasurer as per agreement. ....	1,800 00	
"	19	By amount paid out of Experiment Station fund, as per list of warrants herewith. ....	6,311 41	
"	19	By amount paid out of School of Pharmacy fund, as per list of warrants herewith. ....	2,214 26	
"	19	By amount paid out of Laboratory of Natural History fund, as per list of warrants herewith. ....	2,379 10	
"	19	By amount paid out of School of Medicine fund, as per list of warrants herewith. ....	3,577 09	
"	31	By amount paid out of general fund, as per list of warrants herewith. ....	25,106 24	
"	31	By amount paid out of U. S. Experiment Station fund, as per list of warrants herewith. ....	9 40	
"	31	By amount paid out of Laboratory of Natural History fund, as per list of warrants herewith. ....	284 63	
"	31	By amount paid out of School of Pharmacy fund, as per list of warrants herewith. ....	69 25	
"	31	By amount paid out of School of Medicine fund, as per list of warrants herewith. ....	65 75	\$117,676 37
		<i>Balances—</i>		
		General fund. ....	\$41,119 26	
		Experiment Station fund. ....	1,730 21	
		Laboratory of Natural History fund. ....	2,486 27	
		School of Medicine fund. ....	276 16	
			\$46,611 90	
		School of Pharmacy fund. ....	2,113 04	\$44,498 86
				\$162,175 23

## APPROPRIATIONS.

On motion of Mr. Bullard, \$100.00 was re-appropriated for the protection of Engineering Hall from the drip from window sills.

Appropriations were made for the three months ending December 31, 1897, as requested by the Business Manager.

Board expenses.....	\$500 00	
Salaries for instruction and President.....	35,000 00	
Salaries for services.....	5,000 00	
Buildings and grounds.....	2,000 00	
Fuel, lights, and electric power.....	3,000 00	
Stationery, printing, etc.....	1,000 00	
Advertising and postage.....	1,000 00	
Repair shop.....	1,000 00	
Mechanical department.....	500 00	
Departments.....	300 00	
Laboratories.....	1,000 00	
Library and apparatus.....	50 00	
Incidentals.....	800 00	
Furniture and fixtures.....	500 00	
Heating apparatus.....	500 00	
Greenhouse.....	300 00	
Water supply.....	125 00	
Minnesota lands.....	100 00	\$52,675 00
School of Pharmacy.....	6,500 00	
School of Medicine.....	14,000 00	
Agricultural Experiment Station.....	4,500 00	
Water survey of the State.....	750 00	\$25,750 00
		\$78,425 00

On motion of Mr. McKay, \$50.00 was appropriated for the payment of Wilson, Moore & McIlvaine's bill for legal services rendered the University in the matter of the H. M. R. Construction Company's bond.

It was ordered that the President and Secretary make a requisition on the Auditor for a warrant on the State Treasurer for the sum of \$1,597.50 in favor of John R. Tanner, Governor, J. S. McCullough, Auditor of Public Accounts, and Henry L. Hertz, Treasurer, to be drawn from the appropriation made by the General Assembly for defraying the expenses for legal services in the matter of the Spalding defalcation, and to be used in the payment of the bill of Wilson, Moore and McIlvaine for legal services rendered amounting to said sum.

It was also ordered that a further requisition for \$500.00 be drawn in favor of the same persons from the same fund, to be paid as a retainer fee to C. E. Richards, of Red Oak, Iowa.

## COAL CONTRACT.

Mr. Smith from the Finance Committee made a report with regard to bids received for furnishing coal.

On motion of Mr. Bullard, the committee was directed to reject these bids and to call for bids again.

The committee was further instructed to report with regard to said bids to the Executive Committee, and the Executive Committee was given power to contract for coal for the ensuing year, in case a satisfactory contract could be made.

By request of President McKay, Mr. McLean occupied the chair for the rest of the session.

The Executive Committee made the following report:

URBANA, ILLINOIS, September 21, 1897.

*To the Board of Trustees.*

GENTLEMEN:—Your Executive Committee reports that at a meeting an appropriation of \$600.00 was made for the purpose of completing the repairs on Natural History Hall; \$500.00 to be used under the direction of Professor White, and \$100.00 to be used under the direction of Professor Rolfe.

Respectfully submitted,

F. M. MCKAY,  
S. A. BULLARD,

*Executive Committee.*

This action of the Executive Committee was confirmed.

#### APPOINTMENTS.

President Draper reported that he had engaged the following named instructors and assistants, pursuant to authority previously conferred by the Board:

John Perham Hylan, Ph. D., Instructor in Psychology, at \$80.00 a month for ten months.

Alice Putnam, Instructor in Violin, at \$80.00 a month for ten months.

Clarence Wolworth Alvord, A. B., Instructor in Mathematics and History, in the Preparatory School, at \$70.00 a month for ten months.

James Harry McKee, B. S., Assistant in Mechanical Engineering, at \$50.00 a month for ten months.

George David Hubbard, B. S., Assistant in Geology, at \$50.00 a month for ten months.

Herbert Anthony Weber, B. S., Assistant in General Engineering Drawing, at \$50.00 a month for ten months.

Charles Victor Seastone, B. S., Assistant in Theoretical and Applied Mechanics, at \$50.00 a month for ten months.

Richard Bird Ketchum, B. S., Assistant in Civil Engineering, at \$50.00 a month for ten months.

Hubert Vinton Carpenter, B. S., Assistant in Physics, at \$50.00 a month for ten months.

John Langley Sammis, B. S., Assistant in Chemistry, at \$50.00 a month for ten months.

Robert Watt Stark, B. S., Assistant in Chemistry on State Water Survey at \$50.00 a month for ten months.

Matthew Brown Hammond, Ph. D., Assistant in Economics, at \$50.00 a month for ten months.

Albert St. John Williamson, Assistant in Military Science and Tactics at \$10.00 a month for ten months.

The Secretary presented a statement of dues from students for the quarter ending June 30, 1897.

Board adjourned.

W. L. PILLSBURY,

*Secretary.*

F. M. MCKAY,

*President.*

MEETING OF OCTOBER 1, 1897.

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The following call for a special meeting of the Board of Trustees of the University of Illinois was issued September 25, 1897:

“Upon the call of the President, Mr. F. M. McKay, there will be a special meeting of the Board of Trustees of the University of Illinois at 8:30 o'clock a. m., Friday, October 1, 1897, at the Leland Hotel, Springfield, Illinois, to consider such business as may be duly presented.”

The Board met and adjourned to meet at 6 o'clock p. m.

## EVENING SESSION.

When the Board met pursuant to adjournment there were present Messrs. Armstrong, Bullard, McKay, McLean, Raymond and Pearce and Mrs. Flower; absent Governor Tanner, and Messrs. Inglis, Smith, and Morrison and Mrs. Carriel.

Mr. Bullard, from the Committee on Buildings and Grounds stated that to build the bridge over Silver Creek, on Burrill avenue, according to the plans prepared by Professor Baker, would cost \$875.00, and asked for an additional appropriation of \$375.00 for this purpose.

On motion of Mr. Armstrong, the appropriation was made.

On motion of Mr. Bullard, the matter of state scholarships, and other scholarships in the University, was referred to the Committee on Instruction, which was directed to report to the Board at its next regular meeting.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

F. M. MCKAY,  
*President.*

## MEETING OF DECEMBER 14, 1897.

The Board of Trustees of the University of Illinois met in the Trustees' Room, Library Hall, in Urbana, Illinois, at 3 o'clock p. m., Tuesday, December 14, 1897.

The members present were Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Raymond, and Smith and Mrs. Carriel; those absent were Governor Tanner and Messrs. Inglis and Pearce and Mrs. Flower.

The minutes of the meetings of September 21, and October 1, 1897, were approved, as presented by the Secretary.

## COMMUNICATION FROM PRESIDENT DRAPER.

President Draper presented a request from Professor Townsend asking for a leave of absence without pay for the next school year, and the request was granted.

A request from Professor Palmer that the Business Manager be given authority to contract, on a satisfactory bid, for chemical supplies, to be imported, not exceeding \$1,500.00 in amount, was approved on motion of Mr. McLean.

The resignation of Miss Mary L. Jones, to take effect at the close of the present term, was presented and, on motion of Mr. Morrison, was accepted. President Draper was given power to fill the place temporarily.

It was recommended that Mr. Geo. W. Myers's title be made Professor of Astronomy and Applied Mathematics. It was voted that the title should be Professor of Astronomy. Later in the session, on motion of Mr. Morrison, this action was reconsidered, and the title was made Professor of Astronomy and Applied Mathematics.

## BLUE-PRINT ROOM, ETC.

. After some discussion of the following resolution action thereon was postponed until the next day:

*Resolved*, That from and after January 1, 1898, the University, take into its own hands the sale of examination books, theme paper, pencils, etc., and also management of the blue print room in Engineering Hall, and that Mr. Charles T. Wilder be appointed to have charge of the matter for the period of six months, at \$70.00 per month.

That Mr. Wilder be also required to take charge of all photographic apparatus belonging to the University and that he be expected to use the same in the interest of the University and to its utmost advantage.

That provision be made in the next catalogue for a course in photography, to be taught by Mr. Wilder, and that his employment, if the service is satisfactory, be continued for ten months from the first of September next at \$80.00 per month, and that he be included in the corps of instruction.

President Draper stated that certain changes in the catalogue were under consideration, and that it would be necessary that these should be passed upon before the next regular meeting of the Board. It was accordingly ordered that the Committee on Instruction, in consultation with President Draper, should have authority to approve such changes as were deemed desirable.

Mr. S. J. Temple's bill for plans, etc., for a wagon house, was referred to the Committee on Buildings and Grounds.

Requests for appropriations from Prof. Myers were presented, and the Board authorized, on motion of Mr. Armstrong, an expenditure of \$40.00 for the purpose of building an isolated clock pier at the Observatory.

President Draper's bill for expenses for the last six months amounting to \$72.56, was ordered paid.

A communication from Professor Forbes with regard to a summer school was presented and was referred to the Finance Committee; as was also a communication from Professor Breckenridge asking for sundry appropriations. -

A request from Professor Burrill that the Business Manager be authorized to contract on a satisfactory bid, for botanical supplies, to be imported, not exceeding in amount \$100.00, was approved on motion of Mr. Armstrong.

#### AGRICULTURAL EXPERIMENT STATION.

A report from the Agricultural Experiment Station was presented, and in accordance with requests therein contained, the Business Manager was authorized to contract, on a satisfactory bid, for chemical apparatus and supplies, to be imported, not exceeding in amount \$300.00, and appropriations of Station funds were made as follows:



## APPROPRIATIONS FOR QUARTER ENDING MARCH 31, 1898.

<i>General Fund.</i>	
Salaries.....	\$1,850 00
Labor.....	570 00
Publications.....	350 00
Postage and stationery.....	30 00
Freight and express.....	25 00
Heat, light, and water.....	60 00
Chemical supplies.....	26 00
Seeds, plants, and sundry supplies.....	115 00
Feeding stuffs.....	125 00
Library.....	250 00
Tools and machinery.....	105 00
Furniture and fixtures.....	30 00
Scientific apparatus.....	84 00
Traveling expenses.....	40 00
Buildings and repairs.....	30 00
Total.....	\$3,750 00
<i>From Farm Fund.</i>	
Labor.....	\$500 00
Seeds, plants, and sundry supplies.....	250 00
Total.....	\$750 00

## BUSINESS MANAGER'S REPORT.

The following report was received from the Business Manager and referred to the Finance Committee:

UNIVERSITY OF ILLINOIS, December 13, 1897.

*F. M. McKay, Esq., President Board of Trustees, University of Illinois,*

SIR:—I have the honor to hand you herewith my report as Business Manager, for the three months ending September 30, 1897:

*Paper A* is a statement of the current appropriations September 30, 1897.

*Paper B* is a statement of the State appropriations September 30, 1897.

*Paper C* is a statement of the U. S. fund September 30, 1897.

*Paper D* is a statement of the Laboratory of Natural History fund September 30, 1897.

*Paper E* is a statement of the Agricultural Experiment Station fund September 30, 1897.

*Paper F* is a statement of the School of Pharmacy appropriations September 30, 1897.

*Paper G* is a statement of the School of Medicine appropriations September 30, 1897.

*Paper H* is an estimate of receipts and expenses for the nine months ending June 30, 1898.

*Paper I* is a list of appropriations the Board is requested to make for the three months ending March 31, 1898.

*Paper L* is a statement of receipts by the Business Manager for the three months ending September 30, 1897.

*Paper M* is a list of the general University vouchers presented for audit, being 1 to 650, inclusive.

*Paper N* is a list of the Laboratory of Natural History vouchers presented for audit, being 1 to 100, inclusive.

*Paper O* is a list of the Agricultural Experiment Station vouchers presented for audit, being 1 to 100, inclusive.

*Paper P* is a list of School and Pharmacy vouchers presented for audit, being 1 to 25, inclusive.

*Paper Q* is a list of School of Medicine vouchers presented for audit, being 1 to 50, inclusive.

*Paper R* is an inventory of date July 1, 1897.

## PAPER A—CURRENT APPROPRIATIONS.

<i>September 30, 1897.</i>	Appropriated.	Expended.	Balance.
Board expenses.....	\$1,092 26	\$924 11	\$168 15
Salaries for instruction and for President {	27,584 24	{ 1,790 41	{ 4,942 50
{ Current.....		{ 8,085 71	
{ U. S. Fund.....		{ 12,765 62	
{ State.....		{ 1,648 16	
Salaries for services {	3,137 84	{ 743 18	{ 102 85
{ Current.....		{ 1,898 58	
{ State.....		{ 1,648 16	
Buildings and grounds.....	1,000 00	743 18	256 82
Fuel and lights.....	5,199 67	2,474 18	2,725 49
Stationery and printing.....	1,609 11	572 49	1,036 62
Preparatory School.....	770 21	767 03	3 18
Repair shop.....	1,006 56	817 01	189 56
Mechanical department.....	1,150 52	774 16	376 37
Departments.....	1,220 75	212 73	1,008 02
Laboratories.....	2,937 63	2,002 27	935 30
Library and apparatus.....	153 18	21 62	131 56
Incidental expenses.....	1,222 77	714 84	507 93
<i>Sundries.</i>			
Closed out.....	1,604 55	1,604 55	
Furniture and fixtures.....	406 98	55 85	351 13
Heating apparatus.....	1,190 55	164 50	1,026 05
Water supply.....	250 00	250 00	
Minnesota lands.....	122 72	71 19	51 53
Greenhouse.....	100 25	2 00	98 25
Commencement.....	387 50	288 42	99 08
Stone posts.....	160 00		160 00
Tenant farming, etc., in Illinois.....	4 60		4 60
South farm.....	102 15	28 30	73 85
State Fair exhibit.....	500 00	58 22	441 78
Catalogue.....	991 59	778 60	212 99
Publication of essay.....	75 00		75 00
Remodeling men's gymnasium.....	1,000 00		1,000 00
Accredited high schools.....	30 00	30 00	
Bridge.....	375 00		375 00
Winter School of Agriculture.....	100 00		100 00
Military and band scholarships.....	562 50	562 50	
Legal services.....	885 00	885 00	
Moving to Library Hall.....	500 00	189 05	310 95
	\$57,433 14	\$40,668 53	\$16,764 61

## PAPER B—STATE APPROPRIATIONS, SEPTEMBER 30, 1897.

1895-1897.	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc—</i>				
Closed out.....	\$156,110 76	\$156,110 67	.....	.....
Heating apparatus.....	1,200 00	1,200 00	.....	.....
Buildings and grounds.....	4,119 48	4,119 48	.....	.....
Toilet rooms.....	375 00	355 09	\$19 91	\$19 91
Art and design.....	250 00	196 09	53 91	53 91
Physical training.....	1,220 00	1,005 58	214 42	214 42
School of Music.....	2,250 00	2,250 00	.....	.....
Lectures.....	199 69	.....	199 69	199 69
Agriculture.....	3,750 00	3,750 00	.....	.....
Preparatory School.....	190 00	133 75	56 25	56 25
Advertising.....	3,900 00	3,769 46	140 54	140 54
College of Literature and Arts, books.....	200 00	174 51	25 49	25 49
Accredited schools.....	500 00	325 46	174 54	174 54
Signal bells.....	100 00	82 92	17 08	17 08
Botany (herbarium, etc).....	150 00	113 51	36 49	36 49
Mechanical engineering laboratory.....	695 00	598 68	96 32	96 32
Chemical Laboratory (repairs).....	9,180 00	9 012 32	167 68	167 68
Furniture and fixtures.....	400 00	311 19	88 81	88 81
Furnishing Astronomical Observatory.....	555 00	423 89	131 11	131 11
Zoological department.....	95 00	20 85	74 15	74 15
Bronze tablet.....	175 00	171 50	3 50	3 50
Physics.....	600 00	575 83	24 17	24 17
Law School.....	3,500 00	183 88	3,316 12	3,326 12
	\$189,714 93	\$184,874 75	\$4,840 18	\$4,840 18
<i>Apparatus and materials—</i>				
Closed out.....	\$1,700 00	\$1,700 00	.....	.....
Applied chemistry.....	100 00	27 89	\$72 11	\$72 11
Chemistry.....	700 00	700 00	.....	.....
Psychology.....	300 00	297 66	2 34	2 34
Zoology.....	800 00	749 45	50 55	50 55
Physiology and hygiene.....	800 00	639 74	160 26	160 26
Botany and horticulture.....	680 00	667 09	12 91	12 91
Geology.....	400 00	328 51	71 49	71 49
Astronomy.....	520 00	496 85	23 15	23 15
	\$6,000 00	\$5,607 19	\$392 81	\$392 81
<i>Operating Biological Experiment Station.....</i>	\$3,000 00	\$2,994 85	\$5 15	\$5 15
<i>Biological Experiment Station. equipment.....</i>	\$2,500 00	\$2,500 00	.....	.....
<i>Paving street, etc.....</i>	\$9,300 00	\$9,300 00	.....	.....
<i>Laboratory of Vegetable Physiology.....</i>	\$2,000 00	\$1,975 30	\$24 70	\$24 70
<i>Astronomical Observatory.....</i>	\$15,000 00	\$15,000 00	.....	.....
<i>Library Hall.....</i>	\$150,000 00	\$145,136 56	\$4,863 44	\$4,863 44
<i>Fire protection.....</i>	\$2,000 00	\$1,710 03	\$289 97	\$289 97
<i>Library.....</i>	\$6,000 00	\$6,000 00	.....	.....
<i>Shop practice.....</i>	\$3,000 00	\$3,000 00	.....	.....
<i>Chemical Laboratory.....</i>	\$5,000 00	\$5,000 00	.....	.....
<i>Taxes on Minnesota lands.....</i>	\$3,200 00	\$3,200 00	.....	.....
<i>Vaccine Laboratory.....</i>	\$3,000 00	\$2,046 81	\$953 19	\$953 19
<i>Cabinets—</i>				
Geology.....	\$666 67	\$650 86	\$15 81	\$15 81
Botany.....	666 67	31 40	635 26	635 26
Zoology.....	666 67	.....	666 67	666 67
	\$2,000 00	\$682 26	\$1,317 74	\$1,317 74

## Paper B—State Appropriations—Continued.

1895-1897.	Received	Expended	Balance.	Assigned.
<i>College of Engineering—</i>				
Closed out.....	\$20,112 89	\$20,112 89		
Electrical engineering and physics.....	3,829 95	3,688 27	\$141 58	\$141 58
Civil engineering.....	1,852 42	1,852 42		
Laboratory of applied mechanics and municipal and sanitary engineering.....	1,852 42	1,786 30	66 12	66 12
Architecture.....	1,752 42	1,588 65	163 77	163 77
College, library, parlor, etc.....	600 00	370 37	229 63	229 63
	\$30,000 00	\$29,398 90	\$601 10	\$601 10
<i>Furnishing and fitting Engineering Hall—</i>				
Electric wiring.....	\$1,191 77	\$1,191 77		
Civil engineering.....	478 43	470 25	8 18	8 18
Architecture.....	770 38	769 80	58	58
Municipal and sanitary engineering.....	401 30	388 90	12 40	12 40
Mechanical department.....	563 78	541 23	22 55	22 55
Electrical engineering and physics.....	1,193 39	1,107 42	85 97	85 97
College, library, parlor, etc.....	400 95	364 53	36 42	36 42
	\$5,000 00	\$4,833 90	\$166 10	\$166 10
<i>Salaries, etc.—</i>				
Salaries for instruction.....	\$12,765 62	\$12,765 62		\$12,765 62
Salaries for services.....	1,648 16	1,648 16		1,648 16
Agricultural department.....	2,300 00	1,195 04	1,104 96	2,300 00
Administrative office.....	300 00		300 00	300 00
Art and design.....	300 00		300 00	300 00
Accredited schools.....	500 00		500 00	500 00
Agricultural publication.....	100 00		100 00	100 00
Buildings and grounds.....	2,900 00	2,503 54	396 46	2,900 00
College of Literature and Arts.....	250 00		250 00	250 00
Conservatory.....	1,976 22		1,976 22	5,000 00
Decorating Library Hall.....	3,500 00	693 99	2,806 01	3,500 00
Heating apparatus.....	500 00	475 17	24 83	500 00
Furniture and fixtures.....	700 00		700 00	700 00
<i>Illini</i> .....	500 00		500 00	500 00
<i>Illio</i> .....	100 00		100 00	100 00
Library supplies.....	250 00	1 43	248 57	250 00
Lockers.....	600 00	495 00	105 00	600 00
Lockjaw experiment.....	50 00		50 00	50 00
Natural History Hall fire.....	3,700 00	3,641 00	59 00	3,700 00
Oratorical contest.....	200 00		200 00	200 00
Physical training.....	500 00		500 00	500 00
Preparatory School.....	250 00		250 00	250 00
School of Music.....	500 00	72 85	427 15	500 00
Typewriting bureau.....	250 00	151 04	98 96	250 00
Woman's department.....	300 00		300 00	300 00
Mechanical engineering shops.....	60 00		60 00	60 00
	\$35,000 00	\$23,642 84	\$11,357 16	\$38,023 78
<i>Engineering equipment—</i>				
Architecture.....	\$250 00		\$250 00	\$500 00
Civil engineering.....	250 00		250 00	500 00
Mechanical engineering.....	1,875 00	\$1,092 80	782 20	3,750 00
Physics and electrical engineering.....	1,875 00		1,875 00	3,750 00
Theoretical and applied mechanics and municipal and sanitary engineering.....	500 00		500 00	1,000 00
College (in general).....	250 00		250 00	500 00
	\$5,000 00	\$1,092 80	\$3,907 20	\$10,000 00
<i>Apparatus and materials—</i>				
Astronomical Observatory.....	\$200 00			\$200 00
Botany and horticulture.....	300 00			300 00
Zoölogy.....	200 00			200 00
Geology.....	200 00			200 00
Applied chemistry.....	100 00			175 00
Physiology.....	500 00			500 00
	\$1,500 00			\$1,575 00

*Paper B—State Appropriations—Concluded.*

<i>June 30, 1897.</i>	Received.	Expended.	Balance.	Assigned.
<i>Completing Library Hall.....</i>	\$5,000 00	\$4,452 93	\$547 07	\$5,000 00
<i>Furnishing Library Hall.....</i>	\$5,000 00	\$2,387 87	\$2,612 13	\$5,000 00
<i>Cabinets.....</i>	\$500 00			\$1,000 00
<i>Fire protection.....</i>	\$500 00			\$1,000 00
<i>Vaccine Laboratory.....</i>	\$600 00			\$1,200 00
<i>Equipment of men's gymnasium.....</i>	\$1,500 00			\$3,000 00
<i>Taxes on Minnesota lands.....</i>	\$1,800 00	\$1,450 86	\$349 14	\$1,800 00
<i>Water survey.....</i>	\$750 00	\$452 16	\$297 84	\$750 00
<i>Chemical equipment.....</i>	\$2,500 00	\$1,012 08	\$1,487 92	\$5,000 00
<i>Library.....</i>	\$2,500 00	\$780 39	\$1,719 61	\$5,000 00
<i>Pavement and walks.....</i>	\$1,500 00	\$887 17	\$612 83	\$3,000 00
<i>Shop practice.....</i>	\$750 00	\$30 02	\$719 98	\$750 00
<i>Central Heating plant.....</i>	\$40,000 00	\$11,061 03	\$28,938 97	\$40,000 00
<i>Bridge.....</i>	\$500 00	90	\$499 10	\$500 00

PAPER C—UNITED STATES FUND.

<i>Year ending June 30 1898.</i>	Received.	Expended.	Balance.	Assigned.
Salaries for instruction.....	\$2,300 00	\$8,085 71	\$14,014 27	\$8,085 71

PAPER D—LABORATORY OF NATURAL HISTORY.

1895-1897.	Appropriated.	Expended.	Balance.	Assigned.
General balance July 1, 1896 .....	\$253 68		\$253 68	\$253 68
Closed out.....	3,000 00	3,000 00		3,000 00
Salaries and assistants.....	3,650 00	3,650 00		3,650 00
Library.....	1,000 00	1,000 00		1,000 00
Bulletins.....	500 00	500 00		500 00
Report of Entomologist.....	250 00	97 10	152 90	250 00
Diseases of insects.....	1,500 00	883 58	616 41	1,500 00
1897-1899.	\$10,153 68	\$9,130 68	\$1,023 00	\$10,153 68
Salaries and assistants.....	\$2,000 00	\$851 89	\$1,148 11	\$4,000 00
Field, office, etc.....	500 00	231 41	268 59	\$1,500 00
Library.....	500 00	13 00	487 00	1,500 00
Bulletins.....	400 00	277 51	122 49	750 00
Report of Entomologist.....	250 00		250 00	250 00
Biological Experiment Station.....	1,500 00	1,247 71	252 29	3,000 00
	\$5,150 00	\$2,621 52	\$2,528 48	\$11,000 00

## PAPER E—AGRICULTURAL EXPERIMENT STATION.

1897-1898	Appropriated.	Expended.	Balance.
<i>General Fund.</i>			
Salaries.....	\$1,940 00	\$1,910 80	\$29 20
Labor.....	871 04	666 34	204 70
Publications.....	25 00		25 00
Postage and stationery.....	25 00	20 74	4 26
Freight and express.....	25 00	11 91	13 09
Heat, light, and water.....	40 00		40 00
Chemical supplies.....	20 00		20 00
Seeds, plants, and sundries.....	100 00	83 63	16 37
Feeding stuffs.....	44 00	10 60	33 40
Library.....	4 71	4 71	
Tools, implements, and machinery.....	122 64	122 64	
Scientific apparatus.....	330 00	136 97	193 03
Traveling expenses.....	65 00	30 48	34 52
Contingent expenses.....	60 00	32 00	28 00
Buildings and repairs.....	77 61	77 61	
	\$3,750 00	\$3,108 43	\$641 57
<i>Farm Fund.</i>			
Labor.....	\$400 00	\$250 29	\$149 71
Seeds, etc.....	197 00	196 04	96
	\$597 00	\$446 33	\$150 67

## PAPER E—SCHOOL OF PHARMACY.

1897-1898.	Appropriated.	Expended.	Balance.
Salaries for services.....	\$375 00	\$375 00	
Buildings and grounds.....	422 76	422 76	
Fuel and lights.....	26 00	26 00	
Stationery and printing.....	65 92	65 92	
Laboratories.....	27 07	27 07	
Incidentals.....	120 13	120 13	
Sundries.....	199 69	199 69	
Advertising.....	91 15	91 15	
Furniture and fixtures.....	42 38	42 38	
Unassigned.....	129 90		\$129 90
	\$1,500 00	\$1,370 10	\$129 90

## PAPER G—SCHOOL OF MEDICINE.

1897-1898.	Appropriated.	Expended.	Balance.
Salaries for instruction.....	\$450 00	\$450 00	
Salaries for services.....	705 32	705 32	
Buildings and grounds.....	1,129 74	1,129 74	
Fuel and lights.....	63 02	63 02	
Stationery and printing.....	14 83	14 83	
Laboratories.....	65	65	
Apparatus and materials.....	140 80	140 80	
Incidentals.....	14 15	14 15	
Advertising.....	670 49	670 49	
Furniture and fixtures.....	65 00	65 00	
Unassigned.....	746 00		746 00
	\$4,000 00	\$3,254 00	\$746 00

## PAPER I—APPROPRIATIONS FOR THE THREE MONTHS ENDING MARCH 31, 1898.

Board expenses.....	\$500 00	
Salaries for instruction and President .....	30,000 00	
Salaries for services.....	5,000 00	
Buildings and grounds.....	1,300 00	
Fuel, lights, and electric power.....	3,000 00	
Stationery and printing.....	600 00	
Advertising and postage.....	600 00	
Repair shop.....	1,000 00	
Mechanical department.....	500 00	
Departments.....	200 00	
Laboratories.....	600 00	
Library and apparatus.....	50 00	
Incidentals.....	100 00	
Furniture and fixtures.....	300 00	
Heating apparatus.....	500 00	
Greenhouse.....	100 00	
Water supply.....	125 00	
Library school.....	300 00	\$44,775 00
School of Pharmacy.....	\$3,000 00	
School of Medicine.....	12,000 00	
Agricultural Experiment Station .....	4,500 00	19 500 00
		\$61,275 00

PAPER L - RECEIPTS BY THE BUSINESS MANAGER FOR THE THREE MONTHS ENDING  
SEPTEMBER 30, 1897.

Buildings and grounds, rents.....	\$20 00	
Heating apparatus, old iron .....	7 60	
Greenhouse.....	51 02	
Fuel, lights, coal.....	83 39	
South farm, rent.....	700 00	
Chemical laboratory .....	81 40	
Vaccine laboratory.....	2 50	
Mechanical department.....	707 07	
Repair shop.....	1,330 43	
Minnesota lands, rent.....	174 40	
Interest on land contract.....	144 00	
University fees.....	2,005 00	
Preparatory School fees.....	503 00	
Agricultural Experiment Station.....	866 17	
School of Pharmacy.....	297 78	
School of Medicine.....	5,902 00	\$12,875 76

PAPER R—INVENTORY, JULY 1, 1897—BOOKS, APPARATUS, EQUIPMENT, SPECIMENS,  
SUPPLIES, ETC.

DEPARTMENT.	PERMANENT.		VARIABLE	TOTAL.
	Apparatus and equipment.	Museum and illustrative material.	Commercial material, etc.	
Architecture.....	\$3,528 73	\$1,358 15		\$4,886 88
Art gallery.....	2,839 37			2,839 37
Astronomy.....	7,459 65	18 60		7,478 25
Agriculture.....	1,475 00			1,475 00
Agricultural Experiment Station.....	4,394 45		\$235 00	4,629 45
Applied chemistry.....	274 00			274 00
Art and design.....	1,463 25	430 45		1,893 70
Botanical department.....	2,292 49	3,361 00	60 00	5,713 49
Biological Experiment Station.....	3,300 00		50 00	3,350 00
Chemical laboratory.....	5,845 58	163 50	6,046 36	12,055 44
Civil engineering.....	8,529 93	908 20		9,438 13
College of Engineering.....	1,177 62			1,177 62
English.....		3 00		3 00
Electrical engineering.....	7,954 65	809 51	328 05	8,992 20
Greek.....	421 72			421 72
German.....		45 00		45 00
Geology.....	2,036 23	17,479 15	326 00	19,841 38
History.....		7 00		7 00
Library.....	40,094 20			40,094 20
Latin.....	120 00			120 00
Laboratory of Natural History.....	23,975 34		50 00	24,025 34
Mathematics.....		332 33		332 33
Mechanical engineering.....	21,956 77	660 00	1,534 19	24,150 96
Municipal and sanitary engineering.....	5,180 15	85 15		5,265 30
Military.....	17,544 67			17,544 67
Preparatory School.....	147 00		10 00	157 00
Physical training.....	1,586 91			1,586 91
Public law and administration.....		46 75		46 75
Physics laboratory.....	9,673 57		219 40	9,892 97
Physiology.....	1,339 30	155 50	349 29	1,844 09
Pedagogy.....	77 00			77 00
Psychology.....	802 08			802 08
Romance languages.....	15 00			15 00
School of Music.....	2,068 42			2,068 42
Steam.....	204 02		11,929 75	12,133 77
Veterinary science.....	1,125 75	25 00	15 00	1,165 75
Zoölogy.....	3,810 84	2,005 00	119 00	5,934 84
	\$182,568 69	\$27,893 28	\$21,272 04	\$231,734 01

## FURNITURE AND FIXTURES.

Agricultural Experiment Station.....		\$196 25	
Astronomical Observatory.....		219 40	
Chemical Laboratory.....		688 00	
Engineering Hall—			
Architecture.....	\$2,723 20		
Civil engineering.....	1,736 03		
College in general.....	455 22		
Municipal and sanitary engineering.....	1,048 43		
Mechanical engineering.....	2,262 48		
Physics and electrical engineering.....	3,009 20	\$11,234 56	
Fire protection.....		373 00	
Military Hall.....		402 00	
Natural History Hall.....		5,383 50	
University Hall.....		11,440 50	\$30,237 21

*Paper S* is a communication from the Union Water Company in regard to the University's contract for water service.

Respectfully submitted,

S. W. SHATTUCK,

*Business Manager.*



## TREASURER'S REPORT.

The following report was received from the Treasurer and referred to the Finance Committee:

E. G. KEITH, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

September 30, 1897.

		<i>Dr.</i>			
1897.					
Aug.	31	Balance.....			\$44,498 86
Sept.	7	Received from State Treasurer on account of Laboratory of Natural History.....	\$2,981 76		
"	7	Received from State Treasurer on account of Agricultural Experiment Station.....	1,149 26		
"	7	Received from State Treasurer on account of School of Pharmacy.....	793 50		
"	7	Received from State Treasurer on account of general fund.....	88,024 86		
"	30	Received from S. W. Shattuck, warrants, account of credit of general fund.....	1,765 10		
"	30	Received from S. W. Shattuck on account of School of Medicine.....	5,000 00		
"	30	Received from S. W. Shattuck on account of general fund.....	2,000 00		
"	30	Received from S. W. Shattuck, paid warrants on account credit general fund.....	1,663 70		
"	30	Received from S. W. Shattuck, paid warrants on account of Agricultural Experiment Station fund.....	2 38		
"	30	Received from S. W. Shattuck, paid warrants on account of Agricultural Experiment Station.....	492 61	\$103,873 26	
					<u>\$148,372 13</u>
		<i>Cr.</i>			
1897.					
Sept.	30	By amount paid out of general fund.....	\$33,245 84		
"	30	By amount paid out of Experiment Station fund.....	1,261 55		
"	30	By amount paid out of Laboratory of Natural History fund.....	884 14		
"	30	By amount paid out of School of Medicine fund.....	284 53	\$35,676 06	
		<i>Balances—</i>			
		General fund.....	\$102,327 17		
		Experiment Station fund.....	2,112 91		
		Laboratory of Natural History fund.....	4,553 89		
		School of Medicine fund.....	4,991 63	\$114,015 60	
		School of Pharmacy fund, overdraft.....		1,319 54	\$112,696 06
					<u>\$147,372 12</u>

E. G. KEITH, Treasurer.

The Secretary presented a statement of dues from students of the several departments of the University for the quarter ending September 30, 1897. This was referred to the Finance Committee.

The Board then adjourned to meet at 8 o'clock a. m. Wednesday, December 15, 1897.

## SESSION OF WEDNESDAY, DECEMBER 15, 1897.

When the Board met pursuant to adjournment the same members were present as at the preceding session.

The Secretary spoke of the offer of some person or persons claiming to represent an institution styled by them the "National University of Illinois, Chicago," to grant degrees, as indicated by

letters received at the University from persons inquiring as to such degrees; and the matter was referred to the President of the Board, President Draper, and Mr. Pillsbury, with instructions to prepare and publish a statement setting forth clearly the fact that the University of Illinois was in no way whatever responsible for such offers.

REPORT OF FINANCE COMMITTEE.

The Finance Committee made the following report which, with the exception of the paragraph relating to a summer school, consideration of which was deferred until later in the session, was adopted and appropriations were made as therein recommended.

URBANA, ILLINOIS, Dec, 14, 1897.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your Committee on Finance begs leave to report that it has examined the vouchers submitted by the Business Manager on which University warrants Nos. 1,882 to 2,200, inclusive, for 1896-97, and Nos. 1 to 650, inclusive, for the year 1897-98; Agricultural Experiment Station warrants Nos. 280 to 400, inclusive, for the year 1896-97, and Nos. 1 to 100, inclusive, for the year 1897-98; Laboratory of Natural History warrants Nos. 247 to 286, inclusive, for the year 1896-97, and Nos. 1 to 100, inclusive, for the year 1897-98; School of Pharmacy warrants Nos. 160 to 176, inclusive, for the year 1896-97, and Nos. 1 to 25, inclusive, for the year 1897-98; and School of Medicine warrants Nos. 1 to 75, inclusive, for 1897, and Nos. 1 to 50, inclusive, for the year 1897-98, have been issued, and has found the same correct and duly receipted.

Your committee has examined the report of Elbridge G. Keith, Treasurer, for the term, August 31 to September 30, 1897, and finds that it shows a balance August 31st of \$44,498.86; balance and receipts, \$148,372.12; payments, \$35,676.06; balance of all funds September 30th, \$112,696.06.

Your committee reports as follows relative to the application of Professor Breckenridge for an appropriation of \$300 for experiments on the Big Four Railroad and one of \$100 for cleaning machinery.

We heartily commend the spirit and enterprise of Professor Breckenridge in developing the usefulness in his department, and would gladly recommend the appropriation asked for; but, in view of the fact that our funds are in a low condition, we cannot recommend the appropriation asked for, and would therefore recommend its disallowance.

As to the appropriation asked for in order to move machinery, etc., from the upper floor to the lower floor of the woodshop and to set up the machinery, we find that an amount sufficient for that purpose was included in the provision for fitting up a gymnasium (see page 185.)

As to the matter of establishing a summer school at Havana, we would respectfully report that, owing to the condition of our treasury, we deem it unadvisable to incur further liabilities at the present time.

We advise that the appropriations recommended by the Business Manager in his *Paper I* (see page 215) for the three months ending March 31st be made.

As to water and gas contracts, your committee, being unadvised as to the terms of present contracts, recommends that these matters be referred back to the Finance Committee with power to act.

Respectfully submitted,

THOMAS J. SMITH,  
ALEX. MCLEAN,  
N. B. MORRISON,

*Finance Committee.*

## SCHOLARSHIPS.

The Committee on Instruction presented the following report, which, after considerable discussion, was postponed until the March meeting of the Board:

URBANA, ILLINOIS, Dec. 14, 1897.

*To the Board of Trustees of the University of Illinois.*

In the matter of free scholarships in the University, which was referred to the Committee of Instruction, at the last meeting of the Board, for investigation, and that a policy might be presented for your consideration, your committee respectfully reports:

By the act of 1867 "To provide for the organization and maintenance of the Illinois Industrial University," it is provided that, "Each county in the State shall be entitled to one honorary scholarship in the University, for the benefit of the descendants of the soldiers and seamen who served in the armies and navies of the United States during the late rebellion; but the Board of Trustees may from time to time add to the number of honorary scholarships when in their judgment such additions will not embarrass the finances of the University; nor need these additions be confined to the descendants of soldiers and seamen; such scholarships to be filled by transfer from the common schools of said county, of such pupils as shall from public examination to be conducted as the Board of Trustees of the University may determine, be decided to have attained the greatest proficiency in the branches of learning usually taught in the common school," etc.

The law further provides that such pupils "shall be entitled to receive, without charge for tuition, instruction, in any and all departments of the University for a term of at least three consecutive years." The language of this statute is sufficiently plain to indicate that it was the intention to admit to honorary scholarships only as the result of a competitive examination, and then, mainly the children of soldiers and sailors, who served in the late war, although the power was bestowed upon the Trustees to give such scholarships to others if they thought wise. We believe that this law is sufficiently broad; and, as the opportunity is given in each county for such an examination, we believe no scholarships should be given except as the result of a competitive examination, to be held in the county before admission to the University.

When this law was passed the University was an industrial college with no such departments as are conducted to-day, and the intent of the law was evidently to admit only to the regular classes of the University. No appropriation has ever been made by the legislature for the maintenance of the School of Pharmacy, School of Medicine, College of Law, etc.

These departments must be maintained through their fees, and we would recommend that no free scholarships be granted in any of these departments, believing there was no intent in the minds of the legislators to grant free *professional* instruction. If, at any time, the legislators should desire to open these departments free of cost, they have only to make an appropriation for their support, and give authority to the Trustees to grant free scholarships therein. There is still another reason why your Committee feels it unwise to extend free scholarships. People, as a rule, do not appreciate what they obtain too easily. In admitting one for each county, by competitive examination only, there is really a value put upon the scholarship through the competition and the limitation in number; if, on the contrary, it becomes known that any one can get a free scholarship by asking for it, the value of all competitive examinations will be done away, and we are very likely to bring in a class of young men who will not add to the reputation or standing of the University, who will come merely for the sake of the *quasi* reputation they may suppose to attach to the fact of having been students in the University.

Respectfully submitted,

LUCY L. FLOWER,  
J. E. ARMSTRONG,  
I. S. RAYMOND,

*Committee on Instruction.*

Mr. McLean offered the following resolution, and moved its adoption:

*Resolved*, That all requests for free scholarships not specially provided for by law, be referred directly to this Board, together with a statement in detail as to the reason for such requests.

It is expressly understood that free scholarships do not include instruction in the departments of Law, Pharmacy, Music, and Medicine, unless otherwise ordered by this Board.

It was moved by Mr. Smith that the last paragraph of this resolution, beginning "It is expressly understood," be stricken out. On this motion the roll was called and the yeas were Messrs. Bullard, Smith, and McKay; the nays were Messrs. Morrison, Armstrong and McLean and Mrs. Carriel, and the motion was lost.

The roll was called on the passage of the resolution, and it was adopted by the following vote: Yeas—Messrs. Morrison, Raymond, Armstrong, Bullard, and McLean and Mrs. Carriel; nays—Messrs. Smith and McKay.

President Draper was authorized to secure, at the expense of the University, the attendance of Dr. W. T. Harris and Professor N. M. Butler at the next conference with high school principals.

The following resolution offered by Mr. McLean was adopted:

*Resolved*, That the appointment of a professor of chemistry in the School of Pharmacy, as requested by the Faculty of that school, be referred to the Committee on the School of Pharmacy for further investigation and report at a future meeting of the Board.

The following resolution offered by Mr. McLean was adopted:

*Resolved*, That Messrs. Smith and Bullard be appointed to make arrangements at an early date with the State Treasurer whereby the University may obtain the appropriations now due.

#### SUMMER TERM AT THE UNIVERSITY.

Mr. Armstrong offered the following resolution:

*Resolved*, That it is the desire of this Board that steps be taken in the near future to keep the University running through the summer quarter. Therefore, it is further

*Resolved*, That the Council of Administration with the Executive Committee of this Board be directed to prepare a scheme for conducting such courses as they think best during the summer quarter each year, and that they report such a scheme to the Board at its next regular meeting.

Pending the consideration of these resolutions the Board adjourned to meet at 2 o'clock in the afternoon of the same day.

#### AFTERNOON SESSION.

When the Board met pursuant to adjournment the same members were present as in the morning.

The resolutions offered by Mr. Armstrong before adjournment were further considered and adopted.

It was understood that the proposition for a summer school at Havana, proposed by Professor Forbes, should be considered in connection with the foregoing resolutions.

On motion of Mr. Bullard, \$60.00 was appropriated for the purchase of slides for use with the classes in astronomy.

LOSSES BY LIGHTNING.

The following resolution offered by Mr. Bullard was referred to the Finance Committee, to be reported upon at the March meeting of the Board:

WHEREAS, The losses of the University by fire arising from lightning have lately been so serious that it becomes necessary for this Board to take measures for protection against fire from this source, therefore

*Resolved*, That the sum of \$1,000, or so much thereof as may be needed, be appropriated for protecting the buildings of the University from damage by lightning, and that the Committee on Buildings and Grounds take charge of the work hereby ordered.

Mr. Raymond stated that Mr. Hedges, tenant on the south farm, desired to have the time for the next payment of rent extended to April 1, 1898, on his paying interest at the rate of 6 per cent. The matter was referred to Mr. Raymond with power to act.

One hundred and twenty-five dollars, or so much thereof as might be needed, was appropriated for repairing the tiling on the south farm, the money to be expended under the direction of the Business Manager.

The resolution with regard to the blue-print room was then taken up and adopted, and \$150.00 was assigned as capital for use in the operation of the room.

On motion of Mr. Bullard, \$54.00 additional was appropriated for the construction of the bridge on Burrill avenue, this appropriation having been made necessary because of extra labor on account of quicksand found in laying the foundation.

Mr. Bullard stated that \$526.92 more was needed in the construction of the greenhouse, and this sum was appropriated for this purpose.

The bill of P. E. Taintor, amounting to \$63.00, for cement work on the driveway through Machinery Building, was allowed and ordered paid.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

F. M. MCKAY,  
*President.*

## MEETING OF MARCH 8, 1898.

The Board of Trustees of the University of Illinois met in the Trustees' Room, Library Hall, in Urbana, Illinois, at 9 o'clock a. m., Tuesday, March 8, 1898.

The members present were Messrs. Armstrong, Inglis, McKay, Morrison, Smith, and Raymond; those absent were Governor Tanner and Messrs. Bullard, McLean, and Pearce, and Mrs. Carriel and Mrs. Flower.

After some time spent in the discussion of University affairs, there being no quorum present, the board adjourned to meet at 1:30 p. m.

When the Board met pursuant to adjournment there were present the same members as in the morning, and in addition Messrs. Bullard and McLean, and Mrs. Carriel.

The minutes of the meeting of December 14, 1897, were approved as printed and presented by the Secretary.

The Board then proceeded to the election of officers.

On motion of Mr. Smith, Mr. McKay was elected President.

On motion of Mr. McLean, Mr. W. L. Pillsbury was elected Secretary.

Messrs. Smith and Bullard were elected to constitute, with the President of the Board as chairman, the Executive Committee.

Messrs. A. D. Barber, of Hamilton, E. A. Riehl, of Alton, and H. B. Gurler, of DeKalb, who had been recommended by the Illinois State Board of Agriculture, the Illinois State Horticultural Society, and the Illinois State Dairymen's Association, respectively, were appointed to represent them on the Advisory Board of the Agricultural Experiment Station. Messrs. Raymond and Morrison, together with Professors Burrill, Forbes, and Davenport, were also appointed members of the Advisory Board.

Professor Burrill was appointed Chairman of the Advisory Board.

Mr. Smith moved that there be added to the standing committees of the Board, a Committee on the School of Medicine, the School of Law, and the Library School.

The motion did not prevail.

## COMMUNICATIONS FROM PRESIDENT DRAPER.

On recommendation of President Draper \$500.00 was appropriated for commencement exercises; also \$100.00 for incidental expenses in the Library.

The appointment of W. H. Simmerman as engineer in the heating department, at a salary of \$60,000 a month, was recommended and the appointment was made.

The matter of the superintendency of buildings and grounds was referred to the Committee on Buildings and Grounds with power to act.

A request from Professor T. A. Clark for leave of absence, without pay, during the next University year, was presented and approved.

It was ordered that the President's house be painted at an expense not exceed \$200.00, and the work was put in charge of the Committee on Buildings and Grounds.

A communication with regard to a small animal house was referred to President Draper with power to act.

The following rule with regard to the purchase of uniforms, prepared by the Committee of the Faculty on military affairs, was approved.

## PURCHASING UNIFORMS.

In order that all uniforms worn at this University may be, in quality, make and finish in strict accordance with the qualifications adopted by the Board of Trustees, all students enrolled in the military department will be required to obtain them from that firm only that may, from time to time, be under agreement and bond with the Trustees to furnish said uniforms at a stated price and of standard quality.

Appropriations were made of \$30.00 for the purchase of equipment needed in the military department, and of \$75.00 for the purchase of a State flag.

The report of Professor Davenport, the Director of the Agricultural Experiment Station and Dean of the College of Agriculture, was presented, with the recommendation that the requests made therein be granted.

Authority was given to conduct experiments as proposed, and appropriations of Station and of the University funds were made as asked for in the report.

## REPORT OF THE DIRECTOR OF THE AGRICULTURAL EXPERIMENT STATION.

UNIVERSITY OF ILLINOIS, March 3, 1898.

*A. S. Draper, LL.D., President of the University of Illinois,*

DEAR SIR:—The following is a report of the work of the various departments of the Agricultural Experiment Station, together with recommendations and estimates for the ensuing quarter.

The Chemist of the Station is away on leave, to return in June. The small amount of chemical work that is imperative in the way of analyses of fertilizers, is done by Mr. Smith, a graduate from last year's class.

Mr. Clinton, Assistant Botanist of the Station, reports an addition to the herbarium amounting to about 1,300 specimens, some 400 of which were purchased. He is making a collection of Ustilagineae as a volume of Seymour and Earl's Economic Fungi. Much work was done during the past year with oat smut, and about 100 fields were visited in different parts of the State. The loss from this cause alone is often as high as 20 per cent., and is especially heavy in white clay soils of southern Illinois. The treatment by hot water is now well established, and Mr. Clinton proposes to visit certain sections to give practical demonstration of this method of prevention. He has made extensive experiments upon the germinating power of oats when subject to different degrees of heat and for different periods of time and proposes to extend his investigations the coming season before publishing. A good amount of information was secured last year upon the smut of broom corn, Indian corn, and sorghum, particularly the latter. Mr. Clinton has attended two institutes this winter, and has taught one class in the Winter School.

Mr. Blair, Assistant Horticulturist, has visited within the year 180 fruit plantations in 47 counties of the State for the purpose of studying the horticultural conditions of Illinois. All these visits were without expense to the Station, except the trip to Johnson county at the time of the meeting of the Southern Horticultural Society, which, it will be remembered, he visited for the purpose of making a practical demonstration of the methods of spraying. He reports that the exhibition created great interest and elicited many questions. Requests have come in for its repetition, but I have been obliged to decline, because of the expense. Mr. Blair is desirous of starting a small plum orchard, and in this is supported by Dr. Burrill.

A circular upon the use of the common insecticides is about ready for the press and it is proposed to institute somewhat extensive trials of different fungicides during the coming year preparatory to the more formal publication of a bulletin. One of the subjects that occupied a large degree of attention last summer was orchard cultivation and the results of the season's experience are preparing for a bulletin, which will be ready for the printer within the month. Mr. Blair has now made a fairly complete study of the horticultural resources and possibilities of the State and has spent much time in becoming familiar with what the Station has done heretofore, all of which is of material advantage to his further work. During the term he has taught the largest class in horticulture ever in the University, namely, fourteen University students, besides those of the Winter School. This department's need for laboratory facilities, both for instruction and for experimentation, is most marked and entirely similar to that of the department of agricultural physics. I recently spent a day at Madison, Wisconsin, which confirmed my previous conviction that these two departments should be supplied with suitable buildings and apparatus at the earliest possible date.

This remark leads naturally to the work with nitragin performed by Professor Holden last year. At considerable expense we secured from Germany a dozen samples of the new product for soil inoculation and ours is one of two Stations in America to test the new discovery. The work was greatly hampered by the absence of glass or other protection, and during the fire last June at the Natural History building a good portion of the work was ruined. We have seriously debated the advisability of repeating the attempt to carry on so laborious and costly an experiment with our meager facilities and the chances of loss; but the importance of the subject and the fact that we are pioneers on this side of the water make it seem advisable to do something, or at least to make an attempt. Here lies a fertile field for inquiry, and we should like much to hold good ground until perchance we may be better equipped.

The corn breeding experiment has assumed gigantic proportions and Professor Holden has a mass of valuable data that will prove, I am sure, a contribution to our knowledge of corn. Publication on this subject should be made after another season's work, particularly if last year's promises of results should be fulfilled. The effects of inbreeding appear both pronounced and disastrous, the second generation from inbred seed being less than two-thirds normal size and nearly barren. Remarkable variations have been brought to light in all portions of the plant, which seems peculiarly variable,



and yet there is a pronounced tendency to respond to selection. The first year after all imperfect stalks and all extremely large, early, or late ones had been removed not one-fourth of the crop was left, but the second planting from this seed when closely selected after the same plan left almost a full stand, which shows that corn may be brought much nearer a constant type than has ever yet been done.

The permanent plats have now raised three consecutive crops of corn, and the individual differences or "personal equations" of each are fairly well established. On a few of these tested plats it is proposed to begin permanent experiments to test the behavior of leguminous crops grown continuously upon prairie soil, both alone and in company with other crops.

As was arranged at the last meeting of the Board, Professor Holden visited Grand Island and Norfolk, Nebraska, and made a close study of the sugar beet industry as regards both the producer of the beets and the manufacturer of sugar. He soon observed that peculiar relations obtain between these two interests and that the knowledge of practical details and a common understanding as between grower and manufacturer are absolute conditions of success. After considerable exertion he succeeded in securing some inside information and returned with a new conception of the magnitude of the business, its suitability for Illinois, and withal the danger that threatens a hasty attempt to establish factories without an assured supply of beets grown after economic methods. His investigations entirely changed the plan of our proposed bulletin. The first numbers of the bulletin are out, and I have no hesitation in saying that it is by far the best bulletin ever issued on this subject in the country, not excepting anything emanating from the Agricultural Department at Washington, and excepting only the work of Nicholson, of Nebraska.

We became so impressed with the possible benefits of saving a \$12,000,000 sugar bill to the State and of establishing on a safe basis the fifty factories that would be needed to make the sugar of Illinois, and we saw so many chances of disastrous failure from ill-advised haste, that a thing was done the like of which was never before attempted by any Experiment Station or College of Agriculture and that was to call a Sugar Beet Convention, and to employ and bring from Nebraska the man who is perhaps better qualified than any other in America to teach the culture of the sugar beet and to advise our people as to safe procedure. Mr. Theodore Hapke is a graduate of a German university and has been for years a practical beet raiser. He superintended last year the beet fields of the railroad and irrigation companies in Colorado, and has just now consented to continue with them next year. We were fortunate in having had so capable a man to start our people.

The Convention opened with 150 in attendance. In the afternoon fifty-six registered, representing seventeen counties of the state, and their first action after the meeting was turned over to them by the Experiment Station was formally to thank the University for the interest taken and the help offered in this matter. A Sugar Beet Growers' Association was formed, with Professor Holden as Corresponding Secretary, and visitors said that this Convention would save the state more money than the University had ever cost.

It would seem wise policy to recognize this State Association, which has taken for its work the business of arousing and regulating local markets, this year in growing beets and afterward in establishing factories. I propose that we deal as largely as may be with and through this organization without either sacrificing the work in localities not represented in the Association, or turning the work from our hands into those of the State Association. We must adhere to our resolve not to deal with individuals, except in rare cases and for reason; but must, I take it, pursue a policy that will tend to localize interest and to combine effort about centers where factories may be established later. With such localities we should co-operate in every possible way. We should furnish them bulletins and circulars of information and should arrange to analyze such samples as may be grown according to our direction and forwarded to us transportation prepaid. The people are grateful to the Station for its help and will be yet more grateful when they fully realize its nature. Professor Holden has spoken in many Farmers' Institutes of the

state this winter upon the subject of sugar beets and has been obliged to decline many more invitations. The chief aim has been to steady and shape popular enthusiasm and to induce the right sort of study and procedure. A letter from a Chicago agricultural editor says that we are coming to be considered authority on the sugar beet, and I feel that Professor Holden deserves credit for quickly and accurately estimating the conditions involved.

It would seem well to raise at the Station the coming season three or four acres of beets of different varieties and at different distances apart. We should in this way become familiar with their handling, a thing that is desirable because we are likely to be called upon for information for some time to come. It is recommended also that experiments be conducted in growing beet seed. Seed is not now produced in this country, not because we are unable to produce a satisfactory quality, but because when seed growing has been tried in Nebraska the yield has been insufficient. It is certainly worth while to test this matter, for our soil ought to be productive of large crops.

We have no results from last year's work tending to show whether or not beets can be grown in the white clay lands of southern Illinois, and it is proposed to test this matter on our own rented lands at Edgewood and Odin.

In southern Illinois an important work is only partly done. We have demonstrated not only the possibility of tile drainage, but something at least of its beneficial effect in improving the texture of the soil and increasing the corn crop from 15 to 25 per cent. We have shown that the cow pea is an exceedingly valuable crop, but I question if the general public will not forestall us and adopt the crop before we can fully prove its benefits by actual demonstration. I sincerely trust that it will do so. We must learn further concerning sub-soiling those lands; irrigation, whenever a favorable season occurs; the effect of barnyard manure and of lime; the benefit of winter protection; the introduction of clover; and the use and abuse of meadows. The experiments at Edgewood should be continued as heretofore and at Odin with certain additions as suggested above.

Since April last Mr. Fraser has been studying the natural variations in milk with four cows and has collected good material, which he is getting into shape for a bulletin this spring. He found it necessary to make some experiments on more accurate methods of determining solids not fat, and we have united a dairy and feeding experiment with three cows that are fed a known ration, first of the same composition for all and in amounts entirely safe. This will be afterward varied in amount and composition to note effect both of kind and amount of food as well as of the behavior of each separate animal. A good experiment of this kind has never yet been performed and Mr. Fraser and myself are looking for some important results now that we have an experienced herdsman and a skilled feeder.

The dairy department has done a large amount of work in attempting to discover the real source of impure milk by means of bacteriological and other tests. Mr. Fraser has made some study of city milk supplies, especially of Chicago, and now proposes that experiments be authorized looking to methods of obtaining and delivering pure milk. I believe that the Station can do an excellent work by attacking strongly the problem of city milk supply and would recommend that this line of work be authorized. In November, Mr. Fraser spent three weeks among the dairies of northern Illinois and during the winter he has spoken at five Farmers' Institutes besides the State Dairy-men's Association.

Because of additional purchases we have been able to dispose of some of our inferior specimens of cattle and I consider that the herd is assuming a creditable showing. We are fortunate in having Mr. Dalziel with us as herdsman. He has fed hundreds of cattle and thousands of sheep in Scotland, and comes to us not merely for employment, but for the opportunity to do experimental feeding and in the hope of building up a good herd.

I would recommend that our herd be subjected to the tuberculine test, not that there is reason to suspect disease, but as a precautionary measure. Public herds often suffer because the management lacks the necessary courage to take radical steps; but there is no valid reason why they should not be treated in all respects with the same precautions as private herds.

The four teams and two colts owned by the University are in excellent condition and are doing us credit. Late in the fall I traded one of our old teams which had never been entirely sound for \$75.00 worth of feed. They would have brought more in the spring, but we got all they were worth and saved the cost of wintering.

Whether the institute work done by the members of the Station staff should be considered college or station work is perhaps a question. In any event the call for attendance upon institutes is something enormous and it is certainly growing. I have attended ten such meetings besides our own state institute and the state institute of Indiana, at Huntington. The sort of work is valuable to our staff, because it keeps the individual in touch with the people and their needs. It is valuable to the institution because it serves to carry our work to those engaged in actual business and it commends our efforts to them and builds up in them a belief in the University; but it is a serious invasion of time and simply reduces the winter season to a state of affairs in which we can but keep afloat with daily duties without doing much good work. Those of us who teach, and most of the staff are so engaged a part of the time, find great difficulty in securing time for even the least amount of careful study of literature or for original investigation. The State Farmers' Institute Association is getting into much better working order, and it is to be hoped that dates may be so arranged another winter that less time will be wasted in travel.

The State Institute just closed was in every way profitable to the Station, as it was to all interests of the University, and resolutions were adopted asking for an agricultural equipment commensurate with the needs of the subject and with the standing of Illinois among the great agricultural states.

The ravages of fire have cost the Station not far from \$3,000.00 within the space of a year. The labor of restoring the chemical laboratory has been an arduous one so far as funds are concerned, and has compelled a degree of reduction of estimates that is to be regretted. By oversight no request has been made for a restoration of the loss at the hands of the Legislature. This should be done at the next session. Again, Illinois should undertake to print the results of Experiment Station work, as is done in so many other states, not by the State printer, but by augmenting our printing fund. If this were done, it would not only allow of doing more work here, but would put into circulation much material that is tied up for want of publication funds. Thirteen states make annual appropriations to the experiment stations in amounts varying from \$2,500.00 to over \$96,000.00.

At the time of reorganization of the Station the office of Secretary was abolished. By common consent Mr. Pillsbury was to continue to edit the bulletins as heretofore, both in the interest of uniformity, and because he is peculiarly fitted for this important work. One has only to notice the grave errors and inconsistencies that creep into the bulletins of many states, or to be acquainted with the services of Mr. Pillsbury as a "layman" editor of technical literature to appreciate the value of this work; and because of this fact, and because he is already rendering us this service, I would propose that his name be added to the staff as "editor of station literature."

Summary of leading work for the year and of recommendations:

*Botany.*—Smut of oats and fungus diseases of the apple.

*Horticulture.*—Fungicides, orchard cultivation, and a new plum orchard.

*Agricultural Physics.*—Nitragin experiments, corn breeding, leguminous crops on permanent plats, sugar beets, and continuation of experiments in southern Illinois.

*Dairy.*—Variations in milk; obtaining and delivering pure milk.

*Live Stock.*—Tuberculine test and a careful feeding experiment with three cows.

*Printing aided by State; Editor of Station Literature.*

Upon recommendation of the Advisory Board, I also recommended experiments with the sunflower and the artichoke.

I transmit without recommendation, except as to the interest and value of the subject, the report of Dr. McIntosh giving results of work upon tetanus.

*Professor Davenport, Dean of College of Agriculture,*

SIR:—I submit to you the following report of the work done in the experiments on guinea pigs, rabbits, and horses. Dr. Burrill very kindly supplied me with *bacillus tetani*.

December 20th I inoculated two guinea pigs, which died in sixty hours, after the operation without showing any of the signs of lock jaw. On the 26th of December I inoculated a horse with the *bacillus tetani* and at the end of the second week the muscles of the hind parts became stiff and tetanized. The following day the jaws were locked. He could drink but could not eat any food. By the end of the third day all the muscles of the body were tetanized, showing all the symptoms of lock jaw with the exception that touching him would not produce any extra spasms and that the membrane of the eye was not protruded over it, which is always the case in tetanus brought on by injuries. The horse got only one dose of the bromide of potassium as he would not drink although he could swallow. I tried injections of the medicine per rectum but he would not retain them. The horse continued in a tetanic condition for a week, and as I could not get him to take the medicine I considered it advisable to destroy him.

In the rabbits so far I have not been able to produce tetanus; but Dr. Burrill is preparing some fresh material and when it is ready I shall try again.

The *bacillus tetani* killed the guinea pig so quickly that we had not time to try the bromide of potassium.

The horse is our best subject, but I have found great difficulty in getting horses at a price I could afford to pay for them and am waiting an opportunity to get some more. I have had two cases of tetanus in the country caused by injuries; one of them got completely well in four days by the bromide treatment; the other one is somewhat better and I think will recover.

The object of the experiment is to find out for a fact if the *bacillus tetani* obtained from the earth is the cause of tetanus and, if so, whether or not the bromide of potassium will cure it. From what I have done I am convinced that the bromide of potassium, if a sufficient quantity can be taken by the horse, will cure nearly every case, and if so that it should be used for the cure of tetanus in the human being.

I have thirty-five dollars of the money allowed me still on hand, but as we would require, say ten or fifteen horses, to make our experiment of importance, I shall need some more money. I consider this a very valuable experiment, since nothing of the kind has as yet been undertaken.

Respectfully submitted,

D. MCINTOSH.

The following estimates are to cover the work as outlined for the coming quarter and it is asked that appropriations of Station funds be made to meet them.

## APPROPRIATIONS FOR QUARTER ENDING JUNE 30, 1898.

<i>General Fund.</i>	
Salaries.....	\$1,590 00
Labor.....	910 00
Publications.....	475 00
Postage and stationery.....	35 00
Freight and express.....	20 00
Heat, light, and water.....	30 00
Feeding stuffs.....	200 00
Library.....	15 00
Tools, implements and machinery.....	265 00
Scientific apparatus.....	55 00
Traveling expenses.....	45 00
Buildings and repairs.....	50 00
Contingent.....	60 00
<b>Total.....</b>	<b>\$3,750 00</b>
<i>From Farm Fund.</i>	
Labor.....	\$520 00
Seeds, plants, and sundry supplies.....	230 00
<b>Total.....</b>	<b>\$750 00</b>

In this connection I present some matters as Dean of the College of Agriculture and ask for appropriations of University funds to meet bills and to make repairs on the porch at the farm house.

The following bills are at hand and awaiting payment:

Membership fee University of Illinois in Association of American Agricultural Colleges and Experiment Stations.....	\$10 00
Rent of experiment fields at Odin, Illinois.....	25 00
Rent of experiment fields at Edgewood.....	10 00

It will be remembered that it was held that the funds of the Experiment Station should not be used for rent and that last year a University appropriation was made for that purpose.

The porch at the farm house greatly needs renewing. I have waited from quarter to quarter disliking to ask for a semi-personal matter when we have needed so many things for work. The board roof leaks, the columns are loose, and, while I have endeavored to keep the porch together, the days of its respectability are quite gone.

In order to secure a trustworthy and definite estimate I have asked Mr. Sedgwick to submit one on a plan that will fit the angle between the upright and the wing, with an octagonal projection of some three feet, giving a pleasing effect to the corner. His bid on the job finished is \$156.00.

If this amount can be appropriated it will greatly add to the appearance of the house and the comfort of the occupants, and I should esteem it a personal favor as well as a needed bit of repair.

Last fall a fire that escaped from Professor Palmer's lot destroyed about fifty rods of fencing between our farm and land belonging to Mr. McClain. I have been unable to learn definitely as to the title to the fence that was destroyed, but understand that Mr. McClain is willing to replace half of the fence. I have taken it for granted that the whole matter lies within the province of the Committee on Buildings and Grounds and allude to it here only to call attention to the matter. Professor Holden estimates the cost of restoration at not less than 60 cents per rod.

Respectfully submitted,

E. DAVENPORT, Director.

## EMPLOYMENT OF STUDENT LABOR AT THE UNIVERSITY.

*To the Board of Trustees.*

At the regular meeting of the Board in September last a resolution was adopted to the effect that student labor should be employed as far as practicable, and the President was directed to prepare a scheme for carrying out the proposition and present the same to the Board. Replying thereto I have to say that a considerable part of the incidental work, both clerical and manual in character, is performed by students. I think this is done to as great a degree as is consistent with the interests of the University, and of needy students as well. It is the common experience of the University that student labor is unprofitable; but, as stated, a considerable amount of work is given students to do as a means of helping the needy. It, of course, is not desirable to make work as a means of helping them. Moreover, it is surprising how rapidly students come to depend upon the University for support, in one way or another, when it is afforded. In my judgment it is decidedly against University policy to permit this number to be enlarged beyond bounds which are avoidable. The true course, it seems to me, is not to give persons who have not become students reason to believe that they can come here and depend upon the University for support, but to encourage mutual confidence between the officers and instructors of the University and the students who are already here, and to afford the needy ones relief through work so far as it is feasible for the University to do it. Even this should be done in a quiet way and not made very prominent. I am inclined to think that this is now done much more than the members of the Board suppose. I have never known a case, and since the matter was brought up in the Board I have made inquiry among the members of the Faculty and administrative officers, and am confident that no worthy and deserving student has been turned away from the University because of inability to meet at once any University charges.

We are continually needing more assistants in our laboratories. I think we have been accustomed to pay more for this class of labor than is customary in other universities. It seems to me altogether wise to provide leading professors with such assistance, and I think it practicable to do it more fully through the aid of the most meritorious students. They should be paid small fees, according to the length of time needed, and their employment should be put upon the merit basis. Those should be employed who are doing their work with the greatest regularity and competency and who show that they may be counted upon. Students who are not in need of this compensation will not desire such work. If the Board would open the way for a little more liberty of action in the selection of such assistance, I am confident that it would not involve much if any greater expenditure of money; that it would procure more assistance when most needed; and that it would be a safe and defensible policy in aiding worthy and deserving students without extending the natural tendency to depend upon the assistance of the University when such assistance is afforded. I therefore, for the sake of putting the matter in form for the action of the Board, recommend the following resolution:

*Resolved,* That so far as practicable the incidental work in the offices and laboratories, and manual work about the University; be given to students who are earning their way through the University, giving preference to those who are most worthy and competent.

A. S. DRAPER, *President.*

The resolution offered was adopted.

President Draper announced to the Board that he had been officially advised that on the preceding day, March 7th, in spite of his repeated and positive refusals to permit the use of his name, he had been elected Superintendent of Schools of the City of New York by the Board of Education of that city, and that he was continually in receipt of telegrams from gentlemen of the highest standing in the

public affairs of the city and state of New York urging his acceptance; a committee from the Board of Education had been appointed to visit him and had telegraphed asking him to name the time when he would receive them; he had all along intended to remain with the University but felt bound to present the facts to the Board as it was in session.

On motion of Mr. Morrison, it was voted to appoint a committee, with Mr. Inglis, State Superintendent of Public Instruction, as chairman and Mr. McKay, President of the Board, as one of the members, to prepare and present to the Board a resolution with regard thereto. Messrs. Morrison and Smith were appointed as the other members of this committee.

The following communication from Professor Breckenridge with regard to the work of the mechanical engineering laboratory was presented and it was ordered printed.

#### MECHANICAL ENGINEERING DEPARTMENT.

*N. C. Ricker, Dean of College of Engineering,*

URBANA, March 5, 1898.

DEAR SIR:—There are several matters of importance to the mechanical engineering department that I wish to present to the Board of Trustees at its March meeting, and I submit them to you, hoping that they may have your approval and commendation. They are as follows:

*Moving and Setting up the Engines and Equipment of the Department in the new Steam Engineering Laboratory.*

This will cost from \$200.00 to \$250.00. I request that this amount be allowed for this purpose.

*Current Expenses for Experimental Laboratory Work.*

This department offers three full courses and three half courses in "Experimental Work in Steam Engineering." These include all the students in the departments of sanitary, electrical, and mechanical engineering. The field covered by the experiments undertaken is a very large one and the nature of the work during the past may be indicated by a partial list of some of the more important tests made:

1. One hundred and twenty-six tests of the evaporative efficiency of many grades of Illinois coal. (These experiments have saved the University \$1,500.00 in coal bills during the last three years.)

2. Tests on the flow of steam through pipes.

3. Tests of three types of house heating boilers.

4. Tests of different types of radiators as to their heating capacity.

5. Tests of the Champaign Cold Storage plant.

6. Tests of Electric Street R. R. plant, boilers, engines, generators, and cars.

7. Duty trial of water works plant at Urbana.

8. Tests of different types of injectors.

9. Tests on the value of exhaust steam for heating purposes.

10. Tests on the power required to drive shafting, fans, and machine tools.

11. Tests on the relative strength of drop forgings and hand forgings.

12. Tests of strength of wire cables.

13. Twenty-two locomotive road tests on Illinois Central R. R., on three types of locomotives in actual service.

14. Tests on the regulation of engine speed by shaft governors.

15. Tests on the steam consumption of different types of engines.

The above list of experiments suffices to show the range of work done, under many difficulties, for want of a well equipped laboratory. This represents, I believe, good engineering investigation, which is possible only after a careful training in the use and manipulation of a large variety of instruments especially designed for such work.

It has cost at least \$900.00 to make the tests enumerated in the above list. Of this amount not over \$250.00 has been borne by the University, the remaining \$650.00 having been paid for by the parties with whom the department has coöperated in this work. In other words, outside parties have furnished the equipment and borne a large share of the expenses of the laboratory work in steam engineering.

The results of this kind of work can not fail to be of lasting benefit to our engineering interests. It has opened up friendly relations with many manufacturing concerns and large corporations; it has placed our graduates in good positions and in some cases has afforded a chance for vacation work to our undergraduates; it places the department in communication with state engineering interests, and helps to demonstrate, in some small degree at least, that professors of engineering are engineers.

The future of our steam engineering laboratory work is exceedingly bright, for we now have a Steam Engineering Laboratory. The generous appropriations made by the Board for increasing our equipment will enable us to add to it very materially.

Our relations to engineering interests about the state have been multiplied and the department now has arrangements for several important tests, enumerated as follows:

1. A series of tests to determine the effect on the fuel consumption of locomotives, caused by scale incrustation on the tubes.

The Illinois Central R. R. will furnish us with a new and clean tube locomotive for our first tests and allow us to test same locomotive at the end of four, eight, and twelve months under same conditions. These tests will show at what thickness of scale it will pay to put in new tubes, as well as many other disputed points in this connection.

2. A duty trial of a 6,000,000 gallon high duty pumping engine for the city of Aurora, Illinois.

This is a triple expansion Nordberg Corliss engine and has a guaranteed duty of 130,000,000 ft. lbs.

3. A duty trial of an Allis Corliss pumping engine recently enlarged for the city of Decatur, Illinois.

4. Test of electric light plant for Bement, Illinois.

5. Tests of "Serve tubes" compared with plain tubes, as to relative conductivity and steaming capacity. (The "Serve tube" is a form of tube used in all kinds of steam boilers. It is made at Sheffield, England. The company manufacturing this tube has sent this department four tubes and the "Big Four" R. R. will give us the four plain tubes for these experiments.)

6. "Locomotive Road Tests" on the "Big Four" R. R.

After several conferences with Mr. J. A. Barnard, general manager of the Peoria and Eastern division of the "Big Four," I think I have paved the way for a most advantageous opportunity for "locomotive testing," superior in fact to any offered by any technical school in the United States. Mr. Barnard offers to coöperate with us in this matter and will go into it for a long period, say five or six years. He will fit up a special car to be used for this work only. They will furnish locomotives for testing from time to time as either they or the University wish to determine various points. They will fit up these locomotives, furnishing material and labor for such attachments as are useful only for this work.

The University will have to furnish and mount such of its apparatus as pertains to the tests and that can be used in any regular experimental work.



The value of this work cannot be estimated in any direct way. The "Big Four" R. R. is erecting large and modern shops at Urbana. To be associated with these people will be of much direct value to all our engineering students. The opening up of broader fields for our graduates and many students remaining with us only two or three years is not to be overlooked.

If we can accomplish what seems profitable in this work it will be one of the finest advertising schemes imaginable. It is something that will grow from year to year, giving our students advantages not to be obtained at present at any other institution. It practically presents the University with an equipment for locomotive testing, maintained without expense to us, compared to which no institution could ever hope for its equal.

The test car which they will provide is No. 909, recently used for combination mail and baggage car. This they will fit up as per drawings furnished them, and thus afford us a safer means of observation. There will be plenty of room not only for our apparatus, but for our tools, clothes and material. Arrangements can be made for sleeping in this car at end of run, reducing individual expenses. I shall propose an appropriate painting of this car, so that the University of Illinois may obtain its share in whatever credit there may be in its get up and suitably advertise our engineering interest.

I have gone over this subject at length, which you will pardon, I hope. You have seldom seen any of this work going on; with our new Laboratory you will see much more of it.

The present appropriations made for the department of mechanical engineering do not allow for any current expenses for experimental work. The department has always had these expenses and they have been provided for by certain appropriations made from time to time by the Board. These expenses consist of such items as follow: Printing laboratory blanks; type-writing of reports to parties concerned; blue printing; photographs of some tests; express charges; cartage; pipe and fittings; oil and waste; indicator cards; indicator cord; batteries; glycerine; paint; hardware; repairs to instruments; gaskets and packing; material and temporary fixtures; setting up special apparatus.

I feel sure that all of these expenses are necessary and that you will agree with me as to their worth. Such expenses will increase with added equipment and increase of students.

In conclusion I respectfully request that the Board appropriate \$150.00 for current expenses of the steam engineering laboratory work for the spring term, 1898; that the same amount, \$150.00, be appropriated for each term of the next college year.

Hoping that the foregoing statements may have been clearly presented and that you may add to these your approval as Dean of the College of Engineering, I remain,

Respectfully yours,

L. P. BRECKENRIDGE,

*Professor of Mechanical Engineering.*

Approved, and transmitted to the President.

N. C. RICKER, *Dean.*

Concerning this communication the following resolution was adopted:

*Resolved,* That the Board commend the energy of Professor Breckenridge in securing opportunities for steam engineering tests upon the plants of different cities, railroads, and other corporations and make an appropriation of \$150.00 for office expenses in such work. But the financial circumstances of the University make it necessary that, as heretofore, the expenses of tests at a distance from the University be borne by the parties directly benefited thereby.

The following resolution offered by Mr. Morrison was adopted:

*Resolved*, That the chemistry and mechanical engineering departments be, and hereby are, requested to make an exhaustive analysis of Illinois coals, so as to ascertain the chemical and power producing qualities thereof, and that \$150.00 be appropriated for such investigation.

GAS CONTRACT.

The Finance Committee presented the following memorandum of an agreement with the Champaign & Urbana Railway, Gas and Electric Company for gas:

Memorandum of an agreement between the University of Illinois by the Finance Committee, acting in pursuance to the authority of the Board of Trustees and the Urbana & Champaign Railway, Gas and Electric Company, touching the use of gas.

It is agreed that the gas, which shall be of good quality, consumed by the University of Illinois in its buildings for any or all purposes, including gas used since the termination of the last contract, shall be charged and paid for at the rate of \$1.40 per thousand feet, payments to be made at the end of every three months.

This contract shall continue in force for two years from the 17th day of December, 1897.

January 17, 1898.

UNIVERSITY OF ILLINOIS,

By Thomas J. Smith, Chairman of Finance Committee.  
URBANA & CHAMPAIGN RAILWAY, GAS & ELECTRIC CO.,  
By N. M. Harris, Secretary.

The action of the Committee was confirmed.

WATER SUPPLY.

Mr. Smith also stated the terms on which the Union Manufacturing Company would furnish the University with water. Thereupon the following resolutions offered by Mr. Armstrong were adopted:

*Resolved*, That the Committee on Buildings and Grounds be directed to investigate various methods for the manufacture of gas and to recommend to the Board at its meeting next September a scheme for the erection of a gas plant adequate to all the needs of the University.

*Resolved*, That the Committee on Buildings and Grounds be directed to present to the Board at its meeting next June a scheme for the consideration of a water plant of sufficient capacity to meet the needs of the University.

It was voted to appropriate \$1,000.00, or so much thereof as might be needed for the protection of the University buildings from lightning by putting up lightning rods.

The question of conferring honorary degrees, together with a letter from Hon. Hugh Crea, of Decatur, was referred to the Committee on Instruction for investigation and report.

The special committee appointed at the last meeting of the Board to consider the subject of a summer school, made an informal report of progress and asked for time until the June meeting of the Board to consider a further report.

Mr. Armstrong was added to the committee.

It was voted that special meetings of the Board be held at the dates of the commencements of the School of Pharmacy and of the School of Medicine.

#### ATHLETICS AT THE SCHOOL OF MEDICINE.

The following resolution was adopted:

*Resolved*, That the amount of the indebtedness of the Athletic Association at the School of Medicine, not exceeding the sum of \$800.00, be paid from any surplus funds of said School. The Business Manager shall audit bills.

Hereafter the officers of the School of Medicine are requested to see that students shall conduct their athletic matters wholly upon their own financial responsibility, and that the same shall be carried on with the approval of the Athletic Committee of the General Faculty and the Athletic Advisory Board, the same as other University athletic.

The bill of Cunningham & Boggs, for \$10 45, costs in the Supreme Court in the Bruner case, was ordered paid.

It was also ordered that a writ of error be prosecuted in the Bruner case in order that the case may be heard on its merits before the Supreme Court.

The committee appointed to present a resolution concerning the election of President Draper to the superintendency of the City Schools of New York, and his declination thereof, made the following report:

WHEREAS, The Board of Education of the City of New York has made flattering offers to Dr. A. S. Draper, President of the University of Illinois, respecting the position of superintendent of the schools of that great metropolis; and

WHEREAS, His election to the high and responsible position referred to is only a just recognition of his commanding abilities as an educator; and

WHEREAS, He has declined the position tendered him by the said Board of Education of the City of New York, with its central position and its largely increased salary; therefore, be it

*Resolved*, That we, the Trustees of the University of Illinois, fully appreciate the decision of the President of the University to remain with us and lead to still higher ground and a more triumphant future the grand advance which has already been made under his wise and efficient leadership.

SAMUEL M. INGLIS,  
F. M. MCKAY,  
THOMAS J. SMITH,  
N. B. MORRISON,  
*Committee.*

On motion of Mr. Smith, the Director of the Agricultural Experiment Station was requested to make a test of the peachblow potato the coming season, and Station funds to the amount of \$25.00 were appropriated for the purpose.

On recommendation of President Draper, and a motion of Mr. Armstrong, it was voted to approve the holding of a summer school at the Biological Experiment Station, at Havana, and \$300.00 was appropriated as a guarantee fund for the expense thereof.

## BUSINESS MANAGER'S REPORT.

The Business Manager made the following report :

UNIVERSITY OF ILLINOIS, March 7, 1898.

*F. M. McKay, Esq., President Board of Trustees, University of Illinois,*

Sir:—I have the honor to hand you herewith my report as Business Manager, for three months ending December 31, 1897:

*Paper A* is a statement of the current appropriations, December 31, 1897.

*Paper B* is a statement of the State appropriations December 31, 1897.

*Paper C* is a statement of the U. S. fund December 31, 1897.

*Paper D* is a statement of the Laboratory of Natural History fund December 31, 1897.

*Paper E* is a statement of the Agricultural Experiment Station fund December 31, 1897.

*Paper F* is a statement of the School of Pharmacy appropriations December 31, 1897.

*Paper G* is a statement of the School of Medicine appropriations December 31, 1897.

*Paper H* is an estimate of receipts and expenses for the six months ending June 30, 1898.

*Paper I* is a list of appropriations the Board is requested to make for the three months ending June 30, 1898.

*Paper L* is a statement of receipts by the Business Manager for the three months ending December 31, 1897.

## PAPER A—CURRENT APPROPRIATIONS.

<i>December 31, 1897.</i>	Appropriated.	Expended.	Balance.
Board expenses.....	\$1,592 26	\$1,390 15	\$202 11
Salaries for instruction and for President	52,221 96	{ 6,050 16 } { 20,650 55 } { 25,127 90 }	393 35
Salaries for services	8,337 84	{ Current..... } { U. S. Fund..... } { State..... } { 6,634 56 }	55 12
Buildings and grounds.....	2,000 00	1,774 22	225 78
Fuel and lights.....	8,199 67	3,784 45	4,415 22
Stationery and printing.....	2,609 11	1,069 30	1,539 81
Preparatory School.....	2,075 21	2,072 03	3 18
Repair shop.....	2,506 56	2,087 82	418 74
Mechanical department.....	1,720 75	1,177 79	542 96
Departments.....	1,520 75	270 84	1,249 91
Laboratories.....	3,937 63	2,495 04	1,442 59
Library and apparatus.....	203 18	37 05	166 13
Incidental expenses.....	2,522 77	990 71	1,532 06
<i>Sundries.</i>			
Closed out.....	3,082 05	3,082 05	.....
Furniture and fixtures.....	406 98	277 62	129 36
Heating apparatus.....	1,190 55	225 45	965 10
Water supply.....	375 00	375 00	.....
Minnesota lands.....	222 72	143 76	78 96
Greenhouse.....	300 25	21 26	278 99
Commencement.....	387 50	288 42	99 08
Stone posts.....	160 00	.....	160 00
Tenant farming, etc., in Illinois.....	4 60	.....	4 60
South farm.....	227 15	99 27	127 88
State Fair exhibit.....	500 00	357 17	142 83
Catalogue.....	991 59	778 60	212 99
Publication of essay.....	75 00	.....	75 00

*Paper A—Current Appropriations—Concluded.*

<i>December 31, 1897.</i>	Appropriated.	Expended.	Balance.
Remodeling men's gymnasium.....	1,000 00	.....	1,000 00
Bridge.....	429 00	1 30	427 70
Winter School of Agriculture.....	100 00	.....	100 00
Moving to Library Hall.....	500 00	192 63	307 37
President's expenses.....	72 56	72 56	.....
Library School.....	200 00	152 45	47 55
Blue print room.....	150 00	.....	150 00
	\$99,822 64	\$88,328 27	\$16,494 37

PAPER B—STATE APPROPRIATIONS.

<i>1895-1897.</i>	Received.	Expended	Balance.	Assigned.
<i>Salaries, etc.—</i>				
Closed out.....	\$167,430 24	\$167,430 24	.....	.....
Toilet rooms.....	375 00	335 09	\$19 91	\$19 91
Art and design.....	250 00	244 52	5 48	5 48
Physical training.....	1,220 00	1,162 78	57 22	57 22
Lectures.....	199 69	.....	199 69	199 69
Preparatory School.....	190 00	133 75	56 25	56 25
Advertising.....	3,900 00	3,849 55	50 45	50 45
College of Literature and Arts, books.....	200 00	174 51	25 49	25 49
Accredited schools.....	500 00	495 74	4 26	4 26
Signal bells.....	100 00	82 92	17 08	17 08
Botany (herbarium, etc.).....	150 00	113 51	36 49	36 49
Mechanical Engineering Laboratory.....	695 00	598 68	96 32	96 32
Chemical Laboratory (repairs).....	9,180 00	9,012 32	167 68	167 68
Furniture and fixtures.....	400 00	318 18	13 82	18 82
Furnishing Astronomical Observatory.....	555 00	555 00	.....	.....
Zoological department.....	95 00	20 85	74 15	74 15
Bronze tablet.....	175 00	171 50	3 50	3 50
Physics.....	600 00	582 65	17 35	17 35
Law School.....	3,500 00	2,855 88	644 12	644 12
	\$189,714 93	\$188,220 67	\$1,494 26	\$1,494 26
<i>Apparatus and materials—</i>				
Closed out.....	\$2,400 00	\$2,400 00	.....	.....
Applied chemistry.....	100 00	73 62	\$26 38	\$26 38
Psychology.....	300 00	300 00	.....	.....
Zoology.....	800 00	800 00	.....	.....
Physiology and hygiene.....	800 00	689 45	110 55	110 55
Botany and horticulture.....	680 00	670 14	9 86	9 86
Geology.....	400 00	329 01	70 99	70 99
Astronomy.....	520 00	520 00	.....	.....
	\$6,000 00	\$5,782 22	\$217 78	\$217 78
<i>Operating Biological Experiment Station.....</i>	\$3,000 00	\$3,000 00	.....	.....
<i>Laboratory of Vegetable Physiology.....</i>	\$2,000 00	\$1,975 30	\$24 70	\$24 70
<i>Library Hall.....</i>	\$150,000 00	\$150,000 00	.....	.....
<i>Fire protection.....</i>	\$2,000 00	\$2,000 00	.....	.....
<i>Vaccine Laboratory.....</i>	\$3,000 00	\$2,713 21	\$286 79	\$286 79
<i>Cabinets—</i>				
Geology.....	\$666 67	\$650 86	\$15 81	\$15 81
Botany.....	666 66	31 40	635 26	635 26
Zoology.....	666 67	67 60	599 07	599 07
	\$2,000 00	\$749 86	\$1,250 14	\$1,250 14

## Paper B—State Appropriations—Continued.

1995-1897.	Received.	Expended	Balance.	Assigned.
<i>College of Engineering—</i>				
Closed out.....	\$21,965 31	\$21,965 31	.....	.....
Electrical engineering and physics.....	3,829 85	3,809 05	\$20 80	\$20 80
Laboratory of applied mechanics and municipal and sanitary engineering.....	1,852 42	1,838 13	14 29	14 29
Architecture.....	1,752 42	1,747 62	4 80	4 80
College, library, parlor, etc.....	600 00	420 40	179 60	179 60
	\$30,000 00	\$29,780 51	\$219 49	\$219 49
<i>Furnishing and fitting Engineering Hall—</i>				
Electric wiring.....	\$1,191 77	\$1,191 77	.....	.....
Civil engineering.....	478 43	478 43	.....	.....
Architecture.....	770 38	769 80	\$0 58	\$0 58
Municipal and sanitary engineering.....	401 30	398 90	12 40	12 40
Mechanical department.....	563 78	541 23	22 55	22 55
Electrical engineering and physics.....	1,193 39	1,112 27	81 12	81 12
College, library, parlor, etc.....	400 95	364 53	36 42	36 42
	\$5,000 00	\$4,846 93	\$153 07	\$153 07
<i>1897-1899.</i>				
<i>Salaries, etc.—</i>				
Salaries for instruction.....	\$25,127 90	\$25,127 90	.....	\$25,127 90
Salaries for services.....	1,648 16	1,648 16	.....	1,648 16
Agricultural department.....	2,300 00	1,601 27	\$698 73	2,300 00
Administrative offices.....	300 00	.....	300 00	300 00
Advertising.....	1,000 00	.....	1,000 00	1,000 00
Art and design.....	300 00	7 66	292 34	300 00
Accredited schools.....	500 00	.....	500 00	500 00
Buildings and grounds.....	3,596 59	3,596 59	.....	3,596 59
College of Literature and Arts.....	250 00	.....	250 00	250 00
Conservatory.....	5,526 92	2,473 19	3,053 73	5,526 92
Decorating Library Hall.....	3,500 00	2,500 00	1,000 00	3,500 00
Heating apparatus.....	1,000 00	676 46	323 54	1,000 00
Furniture and fixtures.....	700 00	520 46	179 54	700 00
Illinois Agriculturist.....	100 00	50 00	50 00	100 00
Illini.....	500 00	250 00	250 00	500 00
Illio.....	100 00	.....	100 00	100 00
Library supplies.....	350 00	325 26	24 74	350 00
Lockers.....	600 00	600 00	.....	600 00
Lockjaw experiment.....	50 00	.....	50 00	50 00
Natural History Hall fire.....	3,700 00	3,696 67	3 33	3,700 00
Oratorical contest.....	200 00	.....	200 00	200 00
Physical training.....	500 00	.....	500 00	500 00
Preparatory School.....	250 00	.....	250 00	250 00
School of Music.....	500 00	192 69	307 31	500 00
Technograph.....	100 00	.....	100 00	100 00
Typewriting bureau.....	250 00	193 23	56 77	250 00
Woman's department.....	300 00	.....	300 00	300 00
Mechanical engineering shops.....	60 00	37 50	22 50	60 00
Unassigned.....	56,690 43	.....	56,690 43	.....
	\$110,300 00	\$43,497 04	\$66,502 96	\$53,309 57
<i>Engineering equipment—</i>				
Architecture.....	\$500 00	\$173 87	\$326 13	\$500 00
Civil engineering.....	500 00	63 80	436 20	500 00
Mechanical engineering.....	3,750 00	1,191 55	2,558 45	3,750 00
Physics and electrical engineering.....	3,750 00	750 34	2,999 66	3,750 00
Theoretical and applied mechanics and municipal and sanitary engineering.....	1,000 00	275 00	725 00	1,000 00
College (in general).....	500 00	15 55	484 45	500 00
	\$10,000 00	\$2,470 11	\$7,529 89	\$10,000 00
<i>Apparatus and materials—</i>				
Astronomical Observatory.....	\$450 00	\$123 38	\$326 62	\$450 00
Botany and horticulture.....	300 00	279 70	20 30	300 00
Zoology.....	200 00	21 96	178 04	200 00
Geology.....	200 00	.....	200 00	200 00
Applied chemistry.....	175 00	.....	175 00	175 00
Psychology.....	50 00	.....	50 00	50 00
Physiology.....	500 00	.....	500 00	500 00
Chemistry.....	500 00	.....	500 00	500 00
Unassigned.....	625 00	.....	625 00	.....
	\$3,000 00	\$425 04	\$2,574 96	\$2,375 00

*Paper B—State Appropriations—Concluded.*

	Received.	Expended	Balance.	Assigned.
<i>Completing Library Hall.....</i>	\$5,000 00	\$5,000 00	.....	\$5,000 00
<i>Furnishing Library Hall.....</i>	\$5,000 00	\$4,797 94	\$202 06	\$5,000 00
<i>Cabinets.....</i>	\$1,000 00	.....	\$1,000 00	\$1,000 00
<i>Fire protection.....</i>	\$1,000 00	\$188 48	\$811 52	\$1,000 00
<i>Vaccine Laboratory.....</i>	\$1,200 00	.....	\$1,200 00	\$1,200 00
<i>Equipment of men's gymnasium.....</i>	\$3,000 00	\$1,350 37	\$1,649 63	\$3,000 00
<i>Taxes on Minnesota lands.....</i>	\$1,800 00	\$1,738 81	\$61 19	\$1,800 00
<i>Water survey.....</i>	\$3,000 00	\$981 61	\$2,018 39	\$3,000 00
<i>Chemical equipment.....</i>	\$5,000 00	\$1,469 26	\$3,530 74	\$5,000 00
<i>Library.....</i>	\$5,000 00	\$1,304 53	\$3,695 47	\$5,000 00
<i>Pavement and walks.....</i>	\$3,000 00	\$2,728 17	\$271 83	\$3,000 00
<i>Shop practice.....</i>	\$1,500 00	\$478 95	\$1,021 05	\$1,500 00
<i>Central heating plant.....</i>	\$40,000 00	\$34,830 92	\$5,169 08	\$40,000 0
<i>Bridge.....</i>	\$500 00	\$500 00	.....	\$500 00

## PAPER C—UNITED STATES FUND.

<i>Year ending June 30, 1898.</i>	Received.	Expended.	Balance.	Assigned.
<i>Salaries for instruction.....</i>	\$23,000 00	\$20,650 55	\$2,349 45	\$2,349 45

## PAPER D—LABORATORY OF NATURAL HISTORY.

<i>1895-1897.</i>	Received.	Expended.	Balance.	Assigned.
<i>General balance July 1, 1896.....</i>	\$253 68	.....	\$253 68	\$253 68
<i>Closed out.....</i>	8,150 00	8,150 00	.....	.....
<i>Report of Entomologist.....</i>	250 00	156 44	93 56	93 56
<i>Diseases of insects.....</i>	1,500 00	968 68	531 32	531 32
	\$10,153 68	\$9,275 12	\$878 56	\$878 56
<i>1897-1898.</i>	Received.	Expended.	Balance.	Assigned.
<i>Salaries and assistants.....</i>	\$4,000 00	\$1,893 95	\$2,106 05	\$4,000 00
<i>Field, office, etc.....</i>	1,500 00	360 44	1,139 56	1,500 00
<i>Library.....</i>	1,500 00	454 98	1,045 02	1,500 00
<i>Bulletins.....</i>	750 00	377 89	372 11	750 00
<i>Report of Entomologist.....</i>	250 00	.....	250 00	250 00
<i>Biological Experiment Station.....</i>	3,000 00	1,983 73	1,016 27	3,000 00
	\$11,000 00	\$5,070 99	\$5,929 01	\$11,000 00

## PAPER E—AGRICULTURAL EXPERIMENT STATION.

1897-1898.	Appropriated.	Expended.	Balance.
<i>General Fund.</i>			
Salaries .....	\$3,779 93	\$3,779 93	.....
Labor .....	1,726 59	1,726 59	.....
Publications .....	200 00	44 00	\$156 00
Postage and stationery .....	50 00	40 74	9 26
Freight and express .....	72 00	69 54	2 46
Heat, light and water .....	143 90	120 00	23 90
Chemical supplies .....	25 00	7 45	17 55
Seeds, plants and sundries .....	160 07	106 23	53 84
Feeding stuffs .....	144 00	54 18	89 82
Library .....	24 16	19 14	5 02
Tools, implements and machinery .....	247 64	244 59	3 05
Scientific apparatus .....	464 67	244 59	248 08
Live stock .....	50 00	40 00	10 00
Traveling expenses .....	200 00	52 98	147 02
Contingent expenses .....	108 33	108 33	.....
Buildings and repairs .....	103 71	103 71	.....
	\$7,500 00	\$6,734 00	\$766 00
<i>Farm Fund.</i>			
Labor .....	\$933 00	\$655 19	\$267 81
Seeds, etc .....	414 00	323 65	90 35
	\$1,347 00	\$988 84	\$358 16

## PAPER F—SCHOOL OF PHARMACY.

1897-1898.	Appropriated.	Expended.	Balance.
Salaries for instruction .....	\$2,115 58	\$2,115 58	.....
Salaries for services .....	1,000 00	1,000 00	.....
Buildings and grounds .....	2,134 33	2,134 33	.....
Fuel and lights .....	402 65	402 65	.....
Stationery and printing .....	147 57	147 57	.....
Laboratories .....	1,065 30	1,065 30	.....
Libraries .....	3 00	3 00	.....
Incidentals .....	342 47	342 47	.....
Sundries .....	199 69	199 69	.....
Advertising .....	797 07	797 07	.....
Furniture and fixtures .....	98 36	98 36	.....
Museum .....	22 50	29 50	.....
Unassigned .....	209 87	.....	\$209 87
	\$8,538 39	\$8,328 52	\$209 87

## PAPER G—SCHOOL OF MEDICINE.

1897-1898.	Appropriated.	Expended.	Balance.
Salaries for instruction .....	\$1,550 00	\$1,550 00	.....
Salaries for services .....	2,541 63	2,541 63	.....
Buildings and grounds .....	8,263 99	8,263 99	.....
Fuel and lights .....	415 83	415 83	.....
Stationery and printing .....	190 11	190 11	.....
Laboratories .....	1,291 10	1,291 10	.....
Books and publications .....	25 00	25 00	.....
Apparatus and materials .....	924 11	924 11	.....
Incidentals .....	293 61	293 61	.....
Advertising .....	1,297 46	1,297 46	.....
Furniture and fixtures .....	240 86	240 86	.....
Unassigned .....	966 30	.....	\$966 30
	\$18,006 00	\$17,033 70	\$966 30



PAPER L—RECEIPTS BY THE BUSINESS MANAGER FOR THE THREE MONTHS ENDING  
DECEMBER 31, 1897.

Interest on land contracts .....	\$970 71	
University fees .....	5,579 26	
Preparatory School fees .....	1,001 31	
Music fees .....	500 00	
Salary for services, Ricker and White .....	40 00	
Minnesota lands, rents .....	126 93	
Buildings and grounds, rents .....	15 00	
Heating apparatus .....	2 00	
Greenhouse .....	19 24	
Fuel and lights, coal .....	19 99	
Botanical laboratory .....	6 44	
Chemical laboratory .....	22 81	
Laboratory of applied mechanics .....	5 00	
Mechanical department .....	232 52	
Agricultural Experiment Station .....	637 24	
School of Pharmacy .....	7,188 50	
School of Medicine .....	19,865 00	\$36,231 95
Principal of land contracts .....		1,968 34
Total collections .....		\$38,200 29

*Paper M* is a list of the general University vouchers presented for audit, being 651 to 1,325, inclusive.

*Paper N* is a list of the Laboratory of Natural History vouchers presented for audit, being 101 to 176, inclusive.

*Paper O* is a list of the Agricultural Experiment Station vouchers presented for audit, being 101 to 188, inclusive.

*Paper P* is a list of the School of Pharmacy vouchers presented for audit, being 26 to 119, inclusive.

*Paper Q* is a list of the School of Medicine vouchers presented for audit, being 51 to 206, inclusive.

*Paper R* is a request for a school house site.

*Paper S* is a number of bills presented by Messrs. Wilson, Moore & McIlvaine.

Respectfully submitted,

S. W. SHATTUCK,

*Business Manager.*

It was voted that the Board donate an acre of land in the southwest corner of the S. W. S. E., 31-124-26, Pope county, Minn., to School District No. 84 of said Pope county for a school house site, the same to revert to the University of Illinois when no longer used as a school site; and the President and Secretary of the Board were directed to make a deed for the same to said School District No. 84.

It was ordered that a requisition for \$923.08 be made on the Auditor in favor of the commissioners appointed by the Legislature in the Spalding matter, same to be used in the payment of Wilson, Moore & McIlvaine's bill of January 5, 1898, for said amount.

It was also ordered that a like requisition for \$155.85 be drawn, said sum to be used in payment of the bill rendered by Wylls W. Baird to Wilson, Moore & McIlvaine December 4, 1897, for the sum of \$150 00; and the bill of Hewitt, Hollway & Co., for \$5.85, also rendered Wilson, Moore & McIlvaine February 16, 1898. Said requisition to be drawn when said bills should be approved by the Attorney General, and filed with the Secretary of this Board.

Appropriations were made as follows in accordance with the recommendation of the Business Manager's report:

APPROPRIATIONS.

Board expenses .....	\$500 00	
Salaries for instruction and President.....	29,000 00	
Salaries for services .....	4,000 00	
Buildings and grounds .....	1,500 00	
Fuel and lights and electric power .....	2,000 00	
Stationery, printing, and postage .....	500 00	
Advertising and catalogue .....	2,000 00	
Repair shop.....	1,000 00	
Mechanical department.....	200 00	
Departments .....	100 00	
Laboratories.....	200 00	
Library and apparatus.....	50 00	
Incidentals.....	500 00	
Furniture and fixtures.....	300 00	
Heating apparatus .....	300 00	
Greenhouse .....	100 00	
Water supply .....	500 00	
Library School .....	300 00	
Minnesota lands .....	100 00	
Commencement .....	300 00	
School of Pharmacy .....	\$2,000 00	\$43,450 00
School of Medicine.....	12,000 00	
Agricultural Experiment Station.....	4,500 00	
		18,500 00
		\$61,950 00

TREASURER'S REPORT.

The Treasurer's report was submitted by the Secretary and this together with the vouchers presented by the Business Manager, was referred to the Committee on Finance.

E. G. KEITH, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS  
DECEMBER 31, 1897.

		<i>Dr.</i>	
1897.			
September	30	Balance.....	\$112,696 06
October	7	Received from U. S. Treasurer, on account of Agricultural Experiment Station .....	\$3,750 00
"	19	Received from S. W. Shattuck, on account of School of Medicine .....	10,000 00
"	30	Received from S. W. Shattuck, on account of general fund .....	3,892 11
"	30	Received from S. W. Shattuck, paid warrants on account of Agricultural Experiment Station fund.....	421 66
"	30	Received from S. W. Shattuck, on account of School of Pharmacy .....	3,000 00
November	29	Received from S. W. Shattuck, paid warrants on account of general fund .....	4,380 72
"	29	Received from S. W. Shattuck, on account of credit of general fund .....	123 59
"	29	Received from S. W. Shattuck, paid warrants on account of Agricultural Experiment Station fund.....	544 28
"	29	Received from S. W. Shattuck, on account of School of Medicine .....	5,000 00
"	29	Received from S. W. Shattuck, on account of School of Pharmacy .....	2,000 00
December	31	Received from S. W. Shattuck, paid warrants on account of general fund.....	3,295 73
"	31	Received from S. W. Shattuck, on account of School of Pharmacy .....	2,000 00
"	31	Received from S. W. Shattuck, of account of School of Medicine .....	5,000 00
			\$43,408 09
			\$156,104 15

*Treasurer's Report—Concluded.*

		<i>Cr.</i>		
1897.				
December	31	By amount paid out of general fund.....	\$102,159 77	
"	31	By amount paid out of Agricultural Experiment Station fund.....	4,731 04	
"	31	By amount paid out of Laboratory of Natural History fund.....	2,723 84	
"	31	By amount paid out of School of Pharmacy fund.....	5,902 37	
"	31	By amount paid out of School of Medicine fund.....	14,683 79	
				\$130,200 81
		<i>Balances—</i>		
		General fund.....	\$11,859 55	
		Experiment Station fund.....	2,097 81	
		School of Medicine fund.....	10,307 84	
		Laboratory of Natural History fund.....	1,860 05	
			\$26,125 25	
		School of Pharmacy fund, overdraft.....	221 91	
				25,903 34
				\$156,104 15

E. G. KEITH,

*Treasurer.*

The Board then adjourned to meet at 7:30 p. m., at the Beardsley, in Champaign.

## EVENING SESSION, TUESDAY, MARCH 8, 1898.

The Board met pursuant to adjournment, the same members being present as in the afternoon.

On motion of Mr. Armstrong, it was voted that the members of the Board only be appointed on standing committees.

Mr. Bullard, from the Committee on Buildings and Grounds, made an informal report stating that the Committee expected to accept the Central Heating Plant the next day.

Mr. McKay read a letter which he had obtained from the Attorney General with regard to scholarships in the University, and after some discussion, a motion was made by Mr. Smith to reconsider the action of the Board taken at its last meeting with reference to scholarships.

On motion of Mr. McLean further consideration of the subject was postponed until the next meeting of the Board.

The Finance Committee was given leave to file its report with the Secretary.

## STANDING COMMITTEES.

The President announced the standing committees of the Board as follows:

*Agriculture*—Raymond, Morrison, Pearce, McLean.

*Buildings and Grounds*—Bullard, Smith, Armstrong, Flower.

*Finance*—McLean, Raymond, Smith.

*Instruction*—Armstrong, Bullard, Smith, Inglis.

*Publication*—Smith, Raymond, Carriel.

*Library*—Flower, Carriel, Armstrong, McLean, Bullard.

*Students' Welfare*—Carriel, Morrison, Inglis.

*School of Pharmacy*—McLean, Armstrong, Flower, Carriel, Morrison.

*School of Medicine*—Armstrong, Flower, Carriel, Morrison, Raymond.

REPORT OF FINANCE COMMITTEE.

URBANA, ILLINOIS, March 9, 1898.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—Your Finance Committee begs leave to report that it has examined the vouchers submitted by the Business Manager on which University warrants have been issued as follows: University vouchers, 651 to 1,325, inclusive; Agricultural Experiment Station vouchers, 101 to 108, inclusive; State Laboratory of Natural History vouchers, 101 to 176, inclusive; School of Pharmacy vouchers, 26 to 119, inclusive; School of Medicine vouchers, 51 to 206, inclusive, and has found the same correct and duly received.

Your Committee has also examined the report of Elbridge G. Keith, Treasurer of the University, for the quarter ending December 31, 1897, and found that the receipts for the quarter, together with the balances on hand September 30, 1897, amounted to \$156,104.15; that the amount paid out on warrants drawn during the quarter was \$130,200.81, and that the balances on hand December 31, 1897, were \$25,903.04.

Respectfully submitted,

ALEX. MCLEAN,  
I. S. RAYMOND,  
T. J. SMITH,

*Committee on Finance.*

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

F. M. MCKAY,  
*President.*

## MEETING OF APRIL 19, 1898.

The following call for a special meeting of the Board of Trustees of the University of Illinois was issued April 11, 1898:

"Upon the call of the President, Mr. F. M. McKay, there will be a special meeting of the Board of Trustees of the University of Illinois at 9 o'clock a. m., Tuesday, April 19, 1898, at the Sherman House, Chicago, to consider matters pertaining to the School of Medicine, and such other business as may be presented."

Pursuant to this call the Board met at 9 o'clock a. m., April 19, 1898, at the Sherman House, in Chicago.

There were present Messrs. Armstrong, Bullard, McLean, McKay, Morrison, Pearce, Raymond, and Smith and Mrs. Carriel; absent Governor Tanner, Mr. Inglis, and Mrs. Flower.

## DEGREES CONFERRED.

## SCHOOL OF MEDICINE.

President Draper presented a list of persons recommended by the Faculty of the School of Medicine of the University of Illinois for the degree of Doctor of Medicine and Surgery, and on motion of Mr. McLean, authority was given to confer upon them this degree at the commencement of the School of Medicine to be held in the afternoon at the Grand Opera House, Chicago.

Victor V. Bacon, M. D.  
Henry Lester Baker.  
Walter S. Bebb,  
William Belitz,  
James M. Beveridge, A. B.,  
Jacob Bursma, A. B.,  
J. Baptist Butts,  
Emery Marcus Byers,  
Leo L. Cahill  
Bert Mather Carr,  
Amos Foster Conard,  
Frank Howard Conner, B. S.,  
George E. Coon,  
John Francis Corbin, B. S.,  
Alfred C. Crofton, Ph. D., M. D.,  
Ira Hugh Dillon,  
Aloysius N. J. Dolan, A. M.,  
William Tecumseh Dowdall,  
Robert Emmerson,  
Francis Sebastian Feeney,  
Bartholomew F. Flanagan,  
Geoffrey J. Fleming,  
M. Arista Bingley,  
David A. T. Bjorkman, A. B.,  
Fred Hamilton Blayney, A. B.,  
Darwin E. Brown,  
William Flocton Brownell,

Marcus Samuel Fletcher, B. S.,  
Hugh Martin Hall,  
Thomas J. Hambley, Ph. B.,  
Eunice Bertha Hamill,  
William Ernest Hart,  
George B. M. Hill,  
H. C. Homer,  
Martin Luther Hooper, M. D.,  
John Henry Hovenden,  
Ernest Alexandr Hunt, B. S.,  
Charles Ellsworth Husk,  
Charles Stuart Hutchinson, M. S.  
Wentworth Lee Irwin, M. D.,  
Simeon Ryerson Johnson, B. S.  
Felix T. Kalacinski,  
Oliver P. Kemp, B. S.,  
Clarence Bruce King,  
Benjamin F. Kirkland,  
Charles Albert Kittredge,  
Eugene Colburn Knight,  
Arvid Ernest Kohler,  
Frank Benson Lucas,  
Elijah A. Lyon, Ph. G., M. D.,  
Matthew E. McManes,  
Thomas Ulvsses McManus, A. B.  
A. Baxter Miller,  
Patrick Robert Minahan,

Ward Redfield Ford, Ph. G.,  
 Amandus Ulysses Fuson,  
 Samuel Carson Garber, B. S.,  
 Henry Bernard Graeser,  
 John Arthur Mutchler, B. S.,  
 John Stephen Nagel, Ph. G.,  
 James M. Neff,  
 George F. Newhall,  
 Timothy Van Buren Overton,  
 Addison C. Page, A. B.,  
 Otto Hugo Pagelsen, B. S.,  
 William Robert Pennington, M. D.,  
 William Petersmeyer,  
 Jennie Lind Phillips,  
 Stephen Roman Pietrowicz,  
 Fred D. Pratz, A. B.,  
 Charles P. Proudfoot,  
 William Abraham Purington,  
 Henry Courtland Rogers,  
 Roy Allen Roszell,  
 George Rubin,  
 Paul Sheldon Scholes, A. B.,  
 Henry G. Schuessler,  
 Franz F. H. Schuldt,  
 Wesley Morley Sherin,  
 Austin Ulysses Simpson, B. S.

Charles E. Simpson,  
 Daniel Gilmore Simpson, A. B.,  
 John H. Slater,  
 Emanuel Frank Snyderacker,  
 George H. Sollenbarger,  
 Harry Randolph Spickermon,  
 William H. Stayner,  
 William J. Steele, B. S.,  
 Bayard Taylor Stevenson,  
 Carl Downer Stone,  
 William Truman Stone, M. D.,  
 Charles Frederick Stotz,  
 Henry J. Swink, A. M.,  
 William H. Vary,  
 Olander E. Wald,  
 William Godfrey Wegner,  
 Willibald John Wehle, Ph. G., M. D.,  
 David Gillison Wells, Ph. G.,  
 Charles Franklin Whitmer, Ph. G.,  
 Frank B. Whitmore, B. S., M. D.,  
 Eugene D. Whitney, Ph. B.,  
 Louis G. Witherspoon, B. S.,  
 Milton Cyrus Wolf,  
 John Jacob Wuerth, Ph. G.,  
 George Van Wyland,  
 Charles Ira Wynekoop, B. S.

#### SCHOOL OF PHARMACY.

President Draper presented a list of persons recommended for degrees by the Faculty of the School of Pharmacy of the University of Illinois, and upon motion of Mr. McLean, authority was given to confer degrees as recommended, at the commencement of the School of Pharmacy to be held at the Grand Opera House, Chicago, in the afternoon of April 21, 1898.

#### FOR THE DEGREE OF GRADUATE IN PHARMACY.

Joseph Samuel Ashmore,  
 George William Atzel,  
 John Bakkers,  
 Herbert Arthur Bauer,  
 William Townzen Bowman,  
 Bert Lemon Brenner,  
 Harry Alexander Clark,  
 Samuel Bricker Donaberger,  
 Arthur Wardo Freeman,  
 Andrew Hope Harris,  
 William Frederick Herrmann,  
 Axel Sanfred Holmsted,  
 Hugh Benton Honens,  
 Clyde Ernest Huddleston,  
 George Jacob Kappus,  
 Joseph Robert Kloppenburg,  
 William Gabriel Joseph Kops,  
 Ernest August Koropp,  
 Bohumil Lauber,

Bertram Maier,  
 Otto Herman Mentz,  
 Algy Charles Moore  
 Edward Paul Albert Neverman,  
 Egil Thorbjorn Olsen,  
 Charles Francis Rainey,  
 Charles Theodore Frederick  
 William Ruhland,  
 Ziska Erhart Schuetz,  
 Emil Henry Schultz,  
 Frank Siedenber,  
 William Smale,  
 Maximilian Sobel,  
 William Stroetzel,  
 Charles Reuben Thompson,  
 Charles Augustus Warhanik,  
 Mark Henry Watters,  
 Henry Weigand, Jr.,  
 Paul Harry Wiedel.

#### \* FOR THE DEGREE OF PHARMACEUTICAL CHEMIST.

Charles Everett Jones.

#### FOR THE DEGREE OF MASTER IN PHARMACY.

Nicholas Gray Bartlett.

Henry Biroth.  
 Ezekiel Herbert Sargent.

President Draper presented a letter from Mr. George E. Gardner resigning his professorship in the School of Law. The resignation was accepted to take effect September 1, 1898.

President Draper recommended the appointment of Mr. Charles A. Winston to be an assistant professor in the School of Law at a salary of \$1,200.00 a year, term of service to begin September 1, 1898.

On motion of Mr. Smith, this appointment was made as recommended.

EMPLOYMENT OF INSTRUCTORS FOR WORK OUTSIDE OF THEIR  
REGULAR DUTIES.

*To the Board of Trustees.*

The conditions have heretofore made it convenient for us to employ University professors in other than their professional duties and give them extra compensation therefor. I have for a considerable time doubted the advisability of so doing and have now come to the conclusion that it is so hurtful to the educational interests of the University as to require an early and complete discontinuance of the custom. It necessarily follows that men who are so employed are unable to give the time and attention which they otherwise would to their classes. The additional compensation given to a few members is widely demoralizing to the instructional force. It is clear to my mind that it will be wise policy to emphasize the importance of the department of buildings and grounds and secure for the head of that department a man who is entirely competent to superintend the work of constructing and repairing structures, as well as the work of caring for and beautifying the grounds. I am sure that the material interests of the University will be greatly advanced thereby and that there will be less confusion and annoyance from janitors and workmen, and consequently less interruption to the natural work of the institution.

I do not mean by the foregoing to suggest that any one is at fault about the matter. We have all yielded to the conditions in which we found ourselves, and have made use of the best means at command for going ahead. But the experience surely demonstrates that it is necessary to take a different course in the future. I therefore recommend the adoption of the following resolution.

*Resolved*, That after the present University year no one connected with the instructional force of the University shall be employed in any work which does not naturally come within the scope of his duties and for which additional compensation will be expected, without the approval of the President of the University and the action of the Board of Trustees in regular session.

A. S. DRAPER, *President*.

The foregoing resolution was adopted on motion of Mr. Armstrong.

The following resolution, offered by Mr. Morrison, was then adopted:

*Resolved*, That the Board understands that the services of all the professors and instructors touching matters within their expert or professional knowledge should be fully given to the promotion of all University ends without their expecting additional compensation.

LUNCH ROOM—DEPARTMENT OF DOMESTIC ECONOMY.

President Draper presented the following communication:

*To the Board of Trustees.*

The necessity of better living accommodations for students of the University has become so urgent that I can no longer delay presenting the matter formally and urgently to the Board of Trustees. The increase in attendance has outrun the increase in accommodations. Many students already find it exceedingly difficult to secure suitable rooms and nourishing food at reason-

able rates. This is perhaps more emphatically true of the Faculty than of the students. There seems to be a very general lack of appreciation of the importance of this subject on the part of people living in the cities adjacent to the University. It has been a surprise to me that private capital has not ventured to erect more buildings, with modern conveniences, in the neighborhood of the University; and also, to provide more facilities for obtaining meals near us. There is no room for doubt but that such accommodations would be quickly seized upon and appreciated. Unless something is done in this direction, with new energy, we shall be embarrassed still more with the advent of the increased attendance which we are bound to anticipate at the beginning of the next University year. I have every reason for saying that the difficulty in securing proper rooms and suitable board, at reasonable rates, is now the most serious difficulty in the way of the growth of the institution.

Other institutions have been obliged to confront this difficulty. There is scarcely a large university in the country which has not at one time or another been obliged to initiate measures for meeting the needs of its faculty and students. Indeed, there are few of the larger universities which do not maintain a lunch room where faculty and students can obtain their meals, or at least part of them. These lunch rooms are, I am told, easily self-supporting, if managed competently. If such a room could be established at our University, it would be a greater boon to many of our people than is commonly supposed; and, aside from providing needed food, it would enable us to make a shorter noon recess and arrange a schedule of recitations which would more completely facilitate our work.

It has occurred to me that we might, next fall, start a department of domestic economy, about which we have frequently talked, and that in some way this department might open a lunch room and thus accomplish several desirable purposes at the same time. The room under the chapel in University Hall, which has heretofore been occupied as the electrical laboratory, will be vacated in a few days, and, while there are calls for it by departments already established, I am not sure but the best use we can put it to will be to establish a lunch room in it.

I submit the whole matter to the serious consideration of the Board of Trustees and ask for such action upon it as may seem practicable.

A. S. DRAPER, *President.*

Mr. McLean offered the following resolution:

*Resolved*, That the room now used for the electrical laboratory, but soon to be vacated, be properly arranged, under the supervision of a committee of the Board, as a restaurant, and that it be given rent free to some qualified caterer for the term of one year.

On motion of Mr. Raymond, this resolution was referred to Mr. Pearce, President Draper, and the Committee on Students' Welfare, as a special committee.

The question of the establishment of a department of domestic science was, on motion of Mr. McLean, referred to President Draper for investigation and report.

The matter of smoking on University premises was referred to the Committee on Students' Welfare.

President Draper presented, with his approval, a request from Dr. Kinley for the appropriation of \$50.00 to defray the expenses of continuing the investigation into the cost of production of corn and oats, and the appropriation was made.



President Draper presented, with his approval, a request from Professor Myers for an appropriation of \$60.00, to be used in the publication of the results of an investigation made by him of the light changes in a variable star, based on observations given him by Professor Pickering, of Harvard Observatory, and the appropriation was made.

President Draper presented a request from the Students' Democratic Club of the University asking for the use of Military Hall for a lecture to be given by the Hon. William J. Bryan, sometime during the month of May next.

Mr. McLean moved that the request be not granted, inasmuch as it was contrary to the policy of the Board to have Military Hall used for other than University purposes.

Mr. Morrison moved to amend the motion so as to grant the use of the Hall, in accordance with the request.

Upon this amendment the ayes were—Messrs. Bullard and Morrison; the noes—Messrs. Armstrong, McKay, McLean, Pearce, Raymond, Smith, and Mrs. Carriel, and the amendment failed.

The motion was then carried.

The following report was received from the Committee on Buildings and Grounds:

#### HEATING, LIGHTING, AND POWER PLANT.

##### *To the Board of Trustees.*

Your Committee on Buildings and Grounds desires to report that M. Yeager & Son, the general contractors on the new mechanical and electrical laboratory and boiler house, had their contract completed at the time of the March meeting of the Board. The architects, Messrs. McLane & Temple, reported to your Committee that the work and materials had been satisfactory and that the contract had been completed according to the drawings and specifications.

The time stipulation of the contract was that all the buildings were to be completed and ready for the acceptance of the Committee on December 1, 1897. The work for several reasons stated by the contractors, which they claimed to be sufficient, was not completed on the date stated. The difference between the date of completion called for by the contract and date on which the work was ready for acceptance was figured by the architects to be 97 days. The forfeiture clause in the contract required a deduction of twenty-five dollars per day for each and every day the work remained uncompleted and not ready for acceptance after December 1, 1897. The amount of forfeiture for the 97 days was \$2,425. The Committee did not feel like assuming the responsibility of deciding whether or not the reasons set forth by M. Yeager & Son, the contractors, for the delays were sufficient to excuse them from demands of the forfeiture clause and therefore ordered that the request of M. Yeager & Son for a release from the forfeiture clause of the contract be referred to the Board for action.

Your Committee feels that the contractors have done their work well and have given us a good and satisfactory building. We desire to commend the work which they have done. We desire to say also that the boiler house was turned over to us for the use of the University, though not fully completed, two days before the date required by the contract, and that the delay mentioned has occurred on the engineering laboratory. The new boiler was placed in the boiler house during the month of December and on the 28th was fired up for steam. The cold storage and coal handling machinery was put in as soon as possible thereafter. It is true, therefore, that the plans of

Professor Breckenridge for the use of the heating apparatus during the winter just past have not been disarranged on account of the delay in the completion of the work of the contract.

Respectfully submitted,

S. A. BULLARD,

*Chairman.*

April 19, 1898.

Mr. Smith moved to waive in settlement with Yeager & Son \$2,000.00 of the penalty. Mr. Morrison moved to amend by waiving the full penalty in the settlement, and the amendment prevailed by the following vote: Yeas—Armstrong, Bullard, McLean, Morrison, Raymond, and Mrs. Carriel; nays—Messrs. McKay and Smith.

The motion as amended was adopted.

On motion of Mr. Raymond, \$1,100.00 was appropriated for the erection of a structure for housing wagons and farm implements and for fencing yards for farm animals, this sum being in addition to the \$800.00 appropriated at the meeting of the Board September 21, 1897.

On motion of Mr. Raymond, \$30.00 was appropriated for tiling on the south farm.

SCHOOL OF MEDICINE—SCHOOL OF PHARMACY.

The following communication from the Business Manager, Professor Shattuck, was presented by President Draper, and so much as relates to the School of Pharmacy was referred to the Committee on the School of Pharmacy; and so much as relates to the School of Medicine was referred to the Committee on the School of Medicine.

UNIVERSITY OF ILLINOIS, April 16, 1898.

*President A. S. Draper,*

DEAR SIR:—I beg to offer the following statement:

---

The receipts for the School of Pharmacy for the year ending June 30, 1898, will be about.....	\$10,500 00
The expenses which belong to the same time will be about.....	12,500 00

---

This amount is made up as follows:

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Salaries for instruction .....	\$4,500 00
Salaries for services.....	1,500 00
Rent .....	2,400 00
Advertising, etc .....	1,000 00
Laboratories .....	1,200 00
Fuel and lights .....	500 00
Stationery and printing .....	200 00
Furniture.....	100 00
Repairs.....	200 00
Miscellaneous.....	900 00
	<hr/>
	\$12,500 00

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I understand that it is proposed to add to the instruction in chemistry to such an extent that the expense would be increased \$1,000.00.

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The income of the School of Medicine for the year ending April 21, 1898, will be about.....	\$40,000 00
The expenses for the same time will be about.....	32,000 00
Estimated balance.....	\$8,000 00

---

This balance ought to be held as a working capital, as the income from this time to October 1st, is not sufficient to meet the expenses for that time.

I notice by the reports of Dr. Steele, Actuary, that quite a number of rebates on tuition have been made; as at present no authority has been given by the Board of Trustees for this, I desire instructions in the matter.

Respectfully submitted,

S. W. SHATTUCK,

*Business Manager.*

Upon the request of Professor Forbes, presented by Mr. McKay, Ernest B. Forbes was appointed entomological assistant in the State Laboratory of Natural History and assigned to duty in the State Entomologist's office; salary to be \$70.00 a month.

The Board adjourned.

W. L. PILLSBURY,

*Secretary.*

F. M. MCKAY,

*President.*

## MEETING OF JUNE 7, 1898.

The Board of Trustees of the University of Illinois met in the Trustees' Room, Library Hall, Urbana, Illinois, at 9 o'clock a. m., Tuesday, June 7, 1898.

The members present were Messrs. Armstrong, Bullard, McKay, McLean, Morrison, Pearce, Raymond, Smith and Mrs. Flower and Mrs. Carriel; absent, Governor Tanner.

The proceedings of the Board for the meetings of March 8, 1898, and April 19, 1898, were presented by the Secretary and approved.

## COMMUNICATIONS FROM PRESIDENT DRAPER.

President Draper presented papers as follows:

*To the Board of Trustees:*

I respectfully make the following recommendations touching the Corps of Instructions for the next year:

## DEANS.

1. That the present deans of the several colleges and of the woman's department be reappointed.

## PROMOTIONS AND SALARIES OF PROFESSORS.

1. That William D. Pence, assistant professor of civil engineering, be made associate professor of civil engineering.

2. That the salary of Frank F. Frederick, professor of art and design, be made \$2,000.

3. That the salary of Charles C. Pickett, professor of law, be made \$2,100.

4. That the salary of James M. White, associate professor of architecture, be made \$1,700.

5. That the salary of Frank Smith, assistant professor of zoölogy, be made \$1,400.

6. That Violet D. Jayne, assistant professor of the English language and literature, be made associate professor of the English language and literature, and that her salary be made \$1,600.

7. That the salary of Lewis A. Rhoades, associate professor of the German language and literature, be made \$1,800.

8. That Joseph C. Blair, instructor in horticulture, be appointed assistant professor of horticulture and that his salary be \$1,200, to be paid equally by the University and the Agricultural Experiment Station.

9. That John P. Hylan, instructor in psychology, be appointed assistant professor of psychology and that his salary be made \$1,000.

10. That Alison Marion Fernie, instructor in vocal music, be appointed assistant professor of vocal music and that her salary be \$1,400.

11. That the salary of Herman S. Piatt, assistant professor of the Romance Languages, be made \$1,300.

12. That the salary of George W. Myers, professor of astronomy and applied mathematics, be \$1,900 per year.

13. That Oscar Quick, instructor in physics, be made assistant professor of physics and that his salary be made \$1,000.

#### NEW APPOINTMENTS OF PROFESSORS.

1. That William Lincoln Drew be appointed professor of law at a salary of \$2,000 per annum.

2. That Thomas Welburne Hughes be appointed assistant professor of law at a salary of \$1,200 per annum.

#### REAPPOINTMENT OF PROFESSORS.

That the following named persons be reappointed instructors for ten months from September 1, 1898, at the salaries indicated, viz:

1. Alton C. Burnham, instructor in mathematics, \$90 per month.

2. Carlton R. Rose, instructor in chemistry, \$90 per month.

3. Agnes S. Cook, instructor in rhetoric, \$80 per month.

4. George H. Myer, instructor in German, \$90 per month.

5. William H. Kavanaugh, instructor in mechanical engineering, \$80 per month.

6. William C. Brenke, instructor in mathematics, \$80 per month.

7. Alice Putnam, instructor in violin, \$80 per month.

8. Charles P. Wilder, instructor in photography, \$80 per month.

9. That Matthew B. Hammond, assistant in economics, be made instructor in economics and that his compensation be made \$80 per month.

10. That Wilber J. Fraser, instructor in dairying, be reappointed to the same position at a salary of \$1,000 per year (12 months) to be paid equally by the University and the Agricultural Experiment Station.

#### NEW INSTRUCTORS.

It is recommended that the following named persons be appointed instructors for ten months from September 1, 1898, at the salaries indicated, viz:

1. Henry Lawrence Schoolcraft instructor in history, \$80 per month.

2. Martha Jackson Kyle, instructor in rhetoric, \$70 per month.

3. Neil Conwell Brooks, instructor in German, \$70 per month.

4. Edward Lawrence Milne, instructor in mathematics, \$80 per month.

#### ASSISTANTS.

That the following named persons be appointed laboratory and other assistants for ten months from September 1, 1898, at the compensation indicated, viz:

1. In geology, George D. Hubbard, \$60 per month.

2. In theoretical and applied mechanics, Charles V. Seastone, \$60 per month.

3. In civil engineering, Harry William Baum, \$50 per month.

4. In mechanical engineering.

5. In physics, Hubert V. Carpenter, \$60 per month.
6. In chemistry, John Langley Sammis, \$60 per month.
7. In chemistry and applied chemistry, Albert Philip Sy, \$50 per month.
8. In zoölogy, ———, \$50 per month.
9. In botany, Charles W. Young, \$50 per month.
10. In art and design, Stanley M. Lewis, \$30 per month.
11. In music, Jessie Y. Fox, \$30 per month.
12. In military, A. D. DuBois, \$10 per month.

## LIBRARY.

It is recommended that the following named persons be appointed to positions in the library and in the department of library science at the salaries indicated, the first four appointments being for twelve months:

- Margaret Mann, head cataloguer and instructor in library economy, \$900.
2. Maude W. Straight, reference librarian and instructor in library economy, \$900.
  3. Grace O. Edwards, assistant cataloguer, \$720.
  4. Laura R. Gibbs, assistant in charge of loan desk, \$600.
  5. Elma Warwick, accession clerk (ten months), \$500.
  6. W. O. Waters, order clerk (one-half time ten months), \$250.
  7. Jane E. Cooke, loan assistant (one-half time ten months), \$200.

## PHYSICAL TRAINING.

1. That George A. Huff be reappointed assistant director of the gymnasium and coach of athletic teams for ten months from September 1, 1898, at \$120 per month.
2. That Ella H. Morrison be reappointed director of physical training for women for ten months from September 1, 1898, at \$100 per month.

## CLERICAL ASSISTANTS.

1. That Miss Lillie Heath be continued as Secretary to the President at \$900 per annum.
  2. That Mr. L. A. Boice be continued as clerk in the office of the Registrar at \$55 per month.
  3. That Mr. William F. Marker be reappointed as clerk in the office of the Business Manager at \$55 per month. Mr. Marker is absent because of ill health, and in case of his inability to perform the service it is recommended that the Business Manager be authorized to fill the position at his discretion.
- That Miss Sue W. Ford be continued as chief stenographer in the typewriting bureau at \$55 per month.
5. That Mrs. Jennie M. Laffin be continued as stenographer at \$45 per month, and that the President be empowered to employ in the fall another stenographer in the bureau at \$45 per month.

The appointments under this head are all for a year (twelve months).

## SHOPS.

That foremen in the shops be appointed for ten months from September 1, 1898, at the compensation indicated, viz.:

1. Machine shop, Cyril B. Clark, \$85 per month.
2. Wood shop, Albert R. Curtis, \$85 per month.
3. Smith shop, Henry Jones, \$60 per month.
4. Foundry, Joseph H. Wilson, \$60 per month.

## PEPARATORY SCHOOL.

That the following instructors in the Preparatory School be reappointed for ten months from September 1, 1898, at the compensation indicated, viz.:

1. Edward G. Howe, \$1,800 per annum.
2. Clarence W. Alvord, \$90 per month.
3. Reuben S Douglas, \$80 per month.
3. Lillie A. Clendenin, \$70 per month.
5. Charles B. Randolph, \$80 per month.

## WATER SURVEY.

1. That Clendon V. Millar be appointed chief assistant for the year (12 months) at \$900.
2. That Robert W. Stark be appointed assistant for the year (12 months) at \$600.

## GARDENERS.

1. That Richard Uttenweiler be reappointed as gardener for the year (12 months) at \$60 per month.
2. That Fred Atkinson be reappointed as assistant gardener for the same term at \$40 per month.

## STOREKEEPERS.

1. That M. T. Lindsey be reappointed as storekeeper in the chemical laboratory for ten months from September 1, 1898, at \$40 per month.
2. That I. H. Allen be reappointed storekeeper in the electrical laboratory for the same period, at the same salary.

## STUDENT ASSISTANTS.

That \$500 be appropriated for student assistants who may be employed from time to time by the President as they may be needed.

## MESSENGERS.

That messengers be employed in the following offices at \$3 per week from the opening of the University in September to the close of Commencement week: The office of the President; the offices of the Dean of the General Faculty and the Dean of the College of Agriculture, jointly; the office of the Dean of the College of Engineering; the offices of the Dean of the College of Literature and Arts and the Dean of the Woman's Department, jointly; the office of the Head Librarian; and the offices of the professors of chemistry, jointly.

## JANITORS AND WATCHMEN.

1. That the appointment of all janitors and watchmen terminate at the first of July unless specifically continued by the Superintendent of Buildings and grounds, under the authority here conferred.
2. That the appointment of a night watchman and a day watchman be authorized at \$40 per month for twelve months.

## 3. That janitors be authorized for the different buildings, as follows:

(a) Library building, at.....	\$10.00 per month.
(b) University Hall, at.....	37.00 ..
(c) Engineering Hall, at.....	37.00 ..
(d) Chemical Laboratory, at.....	32.00 ..
(e) Natural History Hall, at.....	35.00 ..
(f) Electrical and mechanical laboratories, at.....	32.00 ..
(g) The metal and wood shops and the testing laboratory jointly, at.....	32.00 ..
(h) Military Hall and the men's gymnasium jointly, at.....	32.00 ..
(i) Astronomical Observatory, at.....	15.00 ..
(j) Closets, at.....	27.00 ..

4. That scrub women be employed as may be necessary at \$1.00 per day, and that \$1,000.00 be appropriated for that purpose.

All help employed by the Superintendent of Building and Grounds shall be employed pursuant to the rules and under the authority here conferred, but shall be kept under employment only when in his judgment it is necessary.

It will be necessary to appoint another and possibly two instructors in mathematics at from \$70.00 to \$80.00 per month for ten months, but I am not ready to nominate, and ask authority to fill one or both of these places, as may be necessary; and also to appoint assistants in the departments of mechanical engineering, general engineering drawing, and entomology, the heads of these departments being not yet ready to make recommendations.

It is recommended that all appointments and changes take effect on September 1, 1898, unless otherwise specially noted.

## FELLOWS.

Upon the nomination of the faculty, I recommend the appointment of fellows for the ensuing year with a stipend of \$300.00 for each:

College of Literature and Arts, department of English, Lucy Carson; department of art and design, Emma E. Seibert.

College of Science, department of physiology, Louise A. Dewey; department of mathematics and astronomy, Harry C. Coffeen.

School of Law, Charles A. Klotz.

## APPROPRIATIONS.

It is recommended that the following appropriations be made for miscellaneous expenses:

1. Administrative offices.....	\$300 00
2. College of Literature and Arts.....	250 00
3. College of Agriculture and improvements and expenses at Experiment Station farm.....	1,000 00
4. Art and design.....	300 00
5. Physical training.....	500 00
6. School of Music.....	250 00
7. Preparatory School.....	250 00
8. Oratorical contests.....	200 00
9. <i>Illini</i> .....	500 00
10. <i>Illio</i> .....	100 00
11. <i>Technograph</i> .....	100 00
12. <i>Illinois Agriculturist</i> .....	75 00
<i>Illinois Adriculturist</i> , deficit from last year.....	23 40
13. Expenses of high school visitor.....	500 00
14. Astronomical Observatory.....	200 00
15. Botany and horticulture.....	400 00
16. Zoölogy.....	200 00
17. Geology.....	250 00
18. Library.....	500 00
19. School of Law.....	500 00
20. For equipment in photography.....	300 00
21. Psychology.....	300 00



It is also recommended that the services of one man at the horse barn at \$40.00 per month, one at the cattle barn at \$30.00 per month, and one farm hand at \$30.00 per month, be hereafter paid by the University.

It is also recommended that \$200.00 of the salary of Mr. George P. Clinton, a member of the Station staff, be paid by the University in consideration of instruction in the department of botany.

It is also recommended that \$500.00 be appropriated for shelving and other furnishings in the library.

A. S. DRAPER.

The recommendations with regard to the reappointment of deans and Professors Pence, Frederick, Pickett, and White, were severally approved as read.

A communication from the students of the Law School, presented by Mr. Smith, was referred to the Committee on Instruction and President Draper.

Mr. Pearce moved that the other recommendations of the foregoing paper be approved by the Board.

Mr. Armstrong moved to amend by referring the recommendations with regard to the assistants in the Library, to the Library Committee, and this amendment was adopted.

The motion as amended was adopted.

#### DEPARTMENT OF ELECTRICAL ENGINEERING.

##### *To the Board of Trustees.*

Heretofore our work in electrical engineering has been embraced in the department of physics. For years there has been trouble among the people carrying on the work of electrical engineering; it has frequently extended to the students; the necessities of the case have subdued it from time to time, but it breaks out occasionally, and it has recently done so to the great hurt of all the interests involved. For years every effort has been made to heal the difficulty, but without avail. Not being altogether certain as to the cause of this trouble I have favored delaying action, in the confidence that time would reveal the source of the difficulty and locate the responsibility. I think it has done so.

As the name of the head of the department of physics and electrical engineering, Professor Carman, has been involved in the recent discussion, I feel bound to make specific reference to that officer. It is unquestionably the fact that the demands made upon him by the work in both physics and electrical engineering, with the planning and installing of the new electrical laboratory and the new heating plant, have been more than he could reasonably be expected to meet to the entire satisfaction of these new interests and his regular work; but there has not been the slightest ground to doubt, and no prominent or reasonable person about the University has doubted either his high attributes as a man, his learning as a physicist, his competency as a practical electrical engineer, or his efficiency as a teacher.

We have two assistant professors in electrical engineering, Messrs. William Esty and Bernard V. Swenson. They have been equal in rank and pay most of the time for several years. Professor Esty comes from a family of teachers, is perhaps thirty years of age, a graduate of Amherst and of the Massachusetts Institute of Technology, and was for a year employed in commercial work by one of the leading electrical companies of the country. He came here in 1893. He is one of the hardest workers in the University. He has from time to time suffered somewhat on account of the troubles in the department, to which I have alluded, but has always shown the strongest character under trial. He has been constantly discreet. No word which could

be hurtful to others has been permitted to escape him. His strength as a student, his great industry and the steadiness of his ways have won for him the esteem of all thoughtful persons about the University. No one doubts his scientific attainments, his mastery of his subject, or his ability to teach. He is not in strong health, however, and, possibly because of lack of opportunity, has not shown a tendency towards aggressive leadership or organizing ability. He has proved his right not only to the good will but to some substantial approval on the part of the University. He has been thought of for head of the electrical engineering department when it should be separately constituted, and two months ago was recommended to me for that position in an official communication by the Dean of the College of Engineering.

Professor Swenson is twenty-six years old; he graduated at this University in 1893 and has since been employed here, spending one summer at Cornell. He is naturally a bright young man and has been active and energetic. His taste has led him into mechanical rather than theoretical work. He is much more naturally adapted to commercial work than to teaching. He has not shown the qualities which fit one for leadership and would not be thought of as a safe head for any University department.

Each of these young men has been growing in the direction of his tastes and tendencies. Year after year they have become more and more unlike and farther apart.

The time has apparently come when it is advisable to organize a separate department of electrical engineering and equip it as strongly as we can. The new organization for this department has had my best attention. First, it has been necessary to think of the advisability of continuing the assistant professors referred to. I have had no doubt about it in the case of Professor Esty; have weighed carefully the suggestion of Dean Ricker that he be given the headship of the department; but have not as yet been able to conclude that it would be wise to do so, for reasons which I have already suggested. I have had an extended correspondence, running to every important technical school in the country, and to every man of prominence whose name I could get. In this correspondence many names have been proposed, but out of a score of men of more or less promise none appears who is older, has had more experience, or whose preparation is more thorough, or who gives better promise than Professor Esty, and I am strongly of the opinion that a new man should not be brought in above him unless clearly he has a right to be above him by reason of stronger attainments and larger experience.

I am as clearly of the opinion that the interests of the work will be promoted by the retirement of Professor Swenson. For a considerable time I have been aware that the conviction was gaining ground among the leading men in the College of Engineering that his undue familiarity with students, his antagonism to his associates and superior officers, and his loose talk have been the cause of the friction and demoralization which have annoyed us so much. I have been very late coming to this conclusion myself and probably should not have been satisfied of it as yet had not direct and positive proof been presented. About two weeks ago Professor Swenson amazed me by coming and volunteering statements concerning his superior officer, which were not only without justification but were absurd, and showed that he had lost all sense of his own youth and inexperience and had become utterly demoralized in thought and feeling to an extent which ought to preclude his continuance in the faculty.

It is well to say, also, that statements made to Dean Ricker on the part of Mr. Ferdinand J. Foote, the mechanic in the department and an altogether too intimate companion of Professor Swenson, lead to the same conclusion as to him. Therefore, I make the following recommendations:

1. That after the present year the work in electrical engineering be organized as a separate and independent department of the College of Engineering.
2. That Professor Carman be made the head of the department of physics with the same title as now of professor of physics.

3. That William Esty, assistant professor of electrical engineering, be appointed associate professor of electrical engineering at a salary of \$1,600 per annum.

4. That the services of Bernard V. Swenson, assistant professor of electrical engineering, be discontinued at the end of the present year, September 1, 1898, and the services of Mr. Foote be discontinued at the end of his present term of employment, July first, next.

5. That the President of the University be empowered to engage a suitable person as professor of electrical engineering, if such person can be found, at a salary not exceeding \$2,250 per annum; if not, that he be empowered to engage an assistant professor at less salary; and that he also be empowered to engage a mechanic to serve the departments of physics and electrical engineering, at not to exceed \$75 per month for ten months.

A. S. DRAPER.

The foregoing paper with regard to the electrical engineering department was referred to the Committee on Instruction.

Several communications concerning this department, which had been received by the members of the Board, were also referred to the Committee on Instruction.

#### HEAT, LIGHT, AND POWER PLANT.

*To the Board of Trustees:*

The new central heating, lighting and power plant of the University is now in operation. It is necessary to make some definite provision for its management. To that end I recommend the adoption of the following:

1. That the University Heating, Lighting, and Power Plant, so far as all extensions and matters affecting the plans and the general operations of the plant are concerned, be under the advisory control of the heads of the mechanical and electrical departments, and that they be held responsible, respectively, for the general condition and effectiveness of the same.

2. That all matters relating to the purchase and distribution of supplies, as well as the details of operations and maintenance, the employment of help, the certification of pay rolls, etc., be under the direction of the Superintendent of Buildings and Grounds.

3. That the force, to be employed by the year (twelve months) to commence July 1st next, be constituted as follows, at the salaries indicated.

(a) Chief engineer, Joseph Morrow, \$900 per annum.

(b) Steam fitter, Charles Ewalt, \$360 per annum.

(c) Fireman, Edward W. Justice, \$600 per annum.

(d) Firemen, Spencer Stucky, \$600 per annum.

(e) Engineer, Walter Zimmerman, \$840 per annum.

(f) An additional engineer, to be employed from September first next for ten months, at \$60 per month; and that authority be given to employ two additional helpers in the boiler house and two in the engine room, when in the judgment of the Superintendent it may be necessary, at not to exceed \$35 per month each.

A. S. DRAPER.

This paper was referred to the Committee on Buildings and Grounds.

## MEMORIAL IN HONOR OF PROFESSOR J. B. TURNER.

*To the Board of Trustees.*

The presence of Professor Jonathan B. Turner, of Jacksonville, Illinois, at the Commencement exercises, at the advanced age of ninety-three years, is deserving of special note. Professor Turner has been of great prominence and has made the deepest impression upon the educational interests of the State and of the country. To his effort, more than to that of any other individual, was due the legislation which has given rise to the Land Grant Colleges. His clear vision and heroic treatment of the subject more than forty years ago gave the special form and characteristics to these institutions which have won for them the deep sympathies of the industrial masses. The State University of his own State is under obligations to him which it can never repay; but it seems to me that its management may well do itself the honor of initiating proceedings looking to the erection of some fitting memorial to this heroic old man whose patriotic and unyielding purposes brought it into existence and gave it the opportunity to become what it has, and promote the public interests as it has. I have recently had some letters offering to make contributions, if necessary, to such a memorial. Whether it should be undertaken directly by the University as a public function, or whether it should be a voluntary gift to be participated in by a great number of people whose sympathies would be with the enterprise, I am not certain. I submit the matter to the Trustees for such action as may seem to them appropriate.

A. S. DRAPER.

On motion of Mr. Morrison, it was voted that this communication with regard to a memorial in honor of Professor Turner be referred to a special committee of five. Messrs. McLean, Morrison, Bullard, and Raymond and Mrs. Flower were appointed on this committee.

Letters from physicians of the vicinity with regard to the desirability of passenger elevators in the University buildings were referred to the Committee on Students' Welfare.

It was ordered, on recommendation of the Committee on Buildings and Grounds, that a tablet be put in the main building of the Heating Plant similar to tablets in Engineering Hall and the Library, and an appropriation of \$125 was made therefor.

President Draper presented the following paper from the Advisory Board of Athletics:

## IMPROVEMENT OF ILLINOIS FIELD.

*To the Board of Trustees of the University of Illinois.*

The Advisory Board of Athletics being especially charged with the care of the athletic interests here centered begs leave to call your attention to that portion of your property known as Illinois Field.

It has been reported that a suggestion has been made looking to a removal of the Field from its present location, to one in the rear of the main group of buildings, or to the Fair Grounds. The Advisory Board believes such a change would be disastrous to our athletic interests and for the following reasons:

First, the efficiency of Illinois Field in promoting the interests of physical training depends in our judgment on its nearness to gymnasium facilities. The gymnasium is now permanently located and fitted with proper appliances and is within a short distance of the field. A large number of students have only a limited time at their disposal for exercise in the Field and any removal to a greater distance would effectually prevent a large number of students from using the Field as an exercise ground. It is especially desirable in the view of the Board that the advantage of the Field be secured to the largest

possible number. We estimate that the average student who takes exercise in the Field has rather less than one hour at his disposal. When we remember that he must take out of this time what is required for dressing and bath, we consider that the change of location would work a serious hardship to our athletic interests.

Again, a convenient location is a great incentive to students to view the work of the various teams. This both encourages loyalty and enthusiasm for the teams and is also a great incentive to the teams to do their best. In its present location, a large number of students watch the work. A more remote location would very seriously curtail the number.

Again, the Advisory Board is of the opinion, that a removal would very seriously curtail the receipts at the games. As now situated the grounds are easy of access and our receipts are, we think, very largely increased thereby. These conclusions are the result of long observation of the athletic situation as it exists at the University and are so conclusive to the Advisory Board that we beg that the Board of Trustees will give them careful consideration.

The Advisory Board asks leave to make the following suggestions and petitions concerning Illinois Field: We believe that it is generally recognized that the board fence at present inclosing the Field is unsightly and not in keeping with the rest of the University's property. We hereby petition that the fence be removed and that your honorable body will appropriate a sufficient sum to place an ornamental iron fence around the present Field and also around the University property to the north of the present Field and reaching to University avenue, and a strip 30 feet wide at the south of the Field.

The limits of the present Field are quite inadequate. The track is a very poor one and is quite unfitted for our needs. The extensions prayed for would give us much needed room and make it possible to put in a good third of a mile track of proper width. The land to the north of the present Field contains eighty-five trees. By the removal of less than twenty of these, a number of them poor, the needed track extension can be secured. The land prayed for at the south of the Field is the width of 30 feet, and its addition to the Field would in no wise injure the parade grounds.

The present grand stand at the Field is an unsightly building and we greatly desire to see it removed from the grounds. We petition that it be done and that the Board of Trustees appropriate a sufficient sum to erect a tasty grand stand.

The present grounds are poorly drained and the track, as we have stated, is in very poor condition. We hereby petition your honorable body to appropriate a sufficient sum to place either the present track or such track as may be built in first-class condition.

As regards the fence, it has perhaps been suggested that it would not furnish sufficient protection from the public at the games and that thereby we should suffer in receipts. We are confident that good police service would go far to remove the difficulty; but if this should not be found sufficient, canvas stretched inside the fence and a short distance from it would effectually shut off the view.

Should such improvements as suggested commend themselves to you, the University would then have an athletic park that would be well fitted for its large and constantly growing athletic interests. We beg leave to express the hope that the considerations mentioned will have force with your honorable body.

We further hope that you will grant us the privilege of appearing before you at your present meeting to make further brief statements and to answer any questions, should you desire to ask them.

We beg leave to submit herewith a plan of the proposed ground; also, we submit the following estimates for the improvements prayed for:

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Fence, ornamental iron, seven feet high around the proposed park.....	\$2,000 00
Grand stand to accommodate five hundred.....	1,500 00
Building of necessary track and grading and draining of grounds.....	1,000 00
Total.....	\$4,500 00

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We therefore hereby petition that the Board of Trustees appropriate the sum of four thousand five hundred dollars for the purposes herein specified.

HERBERT J. BARTON,  
S. W. PARR,

*Faculty members of the Advisory Board of Athletics, for the Board.*

It was voted to hear Messrs. Barton and Parr at 3 o'clock p. m.

On motion of Mr. Bullard a committee of two was appointed to prepare and present to the Board a resolution concerning the Hon. S. M. Inglis, State Superintendent of Public Instruction and, *ex officio*, a member of the Board, recently deceased.

The President appointed on this committee Messrs. Bullard and Armstrong.

The President of the Board presented a communication he had received from Professor Forbes, Director of the State Laboratory of Natural History, concerning appointments upon the Laboratory staff for the ensuing year.

The communication was referred to President Draper.

The question of voice culture in the University was referred to the Committee on Instruction for investigation and report.

President Draper presented, with his approval, a request from Professor Frederick recommending an annual exhibition of art work to be held at this University at the time of the High School Oratorical and Athletic contests, and that prizes aggregating \$50.00 be awarded for the best work shown.

It was voted to inaugurate such an exhibition, and that \$50.00 be appropriated for prizes.

#### DEGREES CONFERRED.

President Draper stated that upon recommendation of the Faculty of the University he asked authority to confer degrees at commencement as follows, and the authority was given:

##### COLLEGE OF LITERATURE AND ARTS.—DEGREE OF BACHELOR OF ARTS.

###### IN SPECIALIZED COURSES—THESES REQUIRED.

D. Edythe Beasley,  
Lee Byrne,  
Delbert Riner Enochs,  
Rollin Orlando Everhart,

Leone Pearl House,  
Helen Jordan,  
Caroline Lentz,  
Edward Frederick Nickoley.

###### IN GENERAL COURSES—THESES NOT REQUIRED.

William Wesley Black,  
William Wagner Dillon,  
Fred Gates Fox,  
Alice Belle Frazey,  
William John Eulton,  
Fred Silvey Hall,

William Vipond Pooley,  
Lewis Archibald Robinson,  
Stanley Livingston Soper,  
Joseph Clarence Staley,  
Guy Andrew Thompson,  
William Luther Unzieker,

Georgia Etherton Hopper,  
Joseph Hunter Marshutz,  
Reed Miles Perkins,  
Cicero Justice Polk,

Rufus Walker, Jr.,  
Sarah Emeline Webster,  
Lewis Forney Wingard,  
Minnie Barney Woodworth.

COLLEGE OF ENGINEERING.—DEGREE OF BACHELOR OF SCIENCE.

IN ARCHITECTURE.

Fred Clarkson Beem,  
Lyle Ireneus Brower,  
Charles Richard Clark,  
Chester Morton Davison,

Stuart Falconer Forbes,  
Arthur Edwin Fullenwider,  
Charles Ernest Hair,  
John Nevins,  
Arthur Lewis Thayer.

IN ARCHITECTURAL ENGINEERING.

Herbert John Naper.

IN CIVIL ENGINEERING.

Clark Godfrey Anderson,  
Henry Cyrille Breidert,  
Thomas Wiley Clayton,  
Harry Edwards Eckles,  
Don Hays,  
John William Musham,

Frederick William von Oven,  
George Joseph Ray,  
Ferdinand Frederick Emil Toenniges,  
Joshua Percy Webster,  
Allison James Wharf,  
David Couden Wray.

IN ELECTRICAL ENGINEERING.

Philip Judy Aaron,  
Edwin Ladue Brockway,  
Guy Jacob Chester,  
Charles Albert Clark,  
Edgar Francis Collins,  
Claude Douglass Enochs,  
Henry Anthony Goodridge,  
Thomas Milford Hatch,  
Arthur Burton Hurd,

Albert Carl Linzee,  
Charles James McCarty,  
Harry Monroe May,  
Henry Fleury Merker,  
Henry Mark Pease,  
Rome Clark Saunders,  
Clyde Leigh Wetzel,  
Frederick Henry Wilson,  
Herman Louis Wuerffel.

IN MECHANICAL ENGINEERING.

Morgan J Hammers,  
Frederick Alexander Mitchell,

Andrew Henry Neureuther,  
Albert St. John Williamson.

IN MUNICIPAL AND SANITARY ENGINEERING.

Louis Engelmann Fischer.

COLLEGE OF SCIENCE—DEGREE OF BACHELOR OF SCIENCE.

IN SPECIALIZED COURSES. THESE REQUIRED—CHEMISTRY.

Erwin Howard Berry,

Charles Albert Walter,  
James Thompson Wolcott.

MATHEMATICS AND ASTRONOMY.

Harry Clay Coffeen,

Arthur R Crathorne,  
James Harvey Dickey.

NATURAL SCIENCE.

Wallace Craig.

IN GENERAL COURSES—THESES NOT REQUIRED.

Jay Jennings Arnold,  
Albert Fred Kaeser,

Nellie Ione Kofoid,  
Grace Eliot Morrow,  
Ora M Rhodes.

## DEGREE OF PHARMACEUTICAL CHEMIST.

Charles Albert Walter.

## COLLEGE OF AGRICULTURE—DEGREE OF BACHELOR OF SCIENCE.

Francis David Linn,

Archibald Dixon Shamel.

## SCHOOL OF LAW—DEGREE OF BACHELOR OF LAWS.

Louis Maxwell Kent, A. B.,

Roy Verner Spalding,

Andrew Jackson Kuykendall, A. B.,

George Bedell Worthen,

## SCHOOL OF LIBRARY SCIENCE—DEGREE OF BACHELOR OF LIBRARY SCIENCE.

Grace Osborne Edwards, A. B.

## FOR CERTIFICATE.

Louise Beerstecher Krause.

## GRADUATE SCHOOL—MASTERS' DEGREES.

## DEGREE OF MASTER OF ARTS.

David Hobart Carnahan, A. B.,

Martha Jackson Kyle, A. B.,

William Grant Spurgin, A. B.

## DEGREE OF MASTER OF LITERATURE.

Nathan Austin Weston, B. L.

## DEGREE OF MASTER OF ARCHITECTURE.

George Wesley Bullard, B. S.

## DEGREE OF CIVIL ENGINEER.

Albert Claude Hobart, B. S.

## DEGREE OF MECHANICAL ENGINEER.

Frank Lyman Busey, B. S.

## DEGREE OF MASTER OF SCIENCE.

James Ansel Dewey, B. S.,  
Adolph Hempel, B. S.George David Hubbard, B. S.,  
Arthur Ernest Paul, B. S.,  
Frederick William Schacht.

## COMMISSIONS AS BREVET CAPTAINS IN THE ILLINOIS NATIONAL GUARDS.

Arthur R Crathorne,  
Delbert Riner Enochs,  
Harry Monroe May,Ora M Rhodes,  
Alber St. John Williamson,  
Herman Louis Wuerffel.

The Board adjourned to meet at 3 o'clock p. m.



## AFTERNOON SESSION, JUNE 7, 1898.

When the Board met pursuant to adjournment the same members were present as in the morning.

Messrs. Barton and Parr, of the Athletic Advisory Board, were heard in behalf of the request of said board for the enlargement and improvement of Illinois Field.

After some discussion the matter was referred to the Finance Committee to report upon at this meeting.

The Registrar presented reports of dues from students for the quarters ending December 31, 1897, and March 31, 1898. These reports were referred to the Finance Committee.

Mr. Smith presented the following report with regard to the suit brought against the University and its Business Manager, Professor Shattuck, by Busse & Gleason, of Chicago.

URBANA, June 7, 1898.

*To the Board of Trustees of the University of Illinois.*

GENTLEMEN:—I beg leave to state that Busse & Gleason brought suit against the University of Illinois, and S. W. Shattuck, as Business Manager, for an alleged balance due as sub-contractors on the Library. Service was had upon myself, and then at the request of President McKay, I took charge of the case and filed a demurrer raising the question whether or not the University of Illinois could be sued. The court overruled the demurrer and directed me to answer, which I did by plea. Trial was had, and on the evidence of young Gleason, the court dismissed the action as against S. W. Shattuck, and gave judgment against the University of Illinois. The judgment was for \$486.85 and costs.

I prayed an appeal which was allowed, bond to be filed and bill of exceptions within thirty days from May 13, 1898.

I deem it important to the University of Illinois to have the question settled whether or not an action will lie against this institution.

Respectfully submitted,

THOMAS J. SMITH.

After some discussion, on motion of Mr. Bullard, it was voted to instruct the Business Manager, Professor Shattuck, to pay the amount of the claim on getting a satisfactory discharge, and also to pay the costs.

The Board then adjourned to meet at 7:30 p. m.

## EVENING SESSION, JUNE 7, 1898.

When the Board met pursuant to adjournment the same members were present as at the previous session.

The following resolution was adopted:

*Resolved*, That the President and Secretary be directed to draw upon the Auditor of Public Accounts such requisitions as the law requires in order that he may issue to the Treasurer of the University his warrants upon the State Treasurer for the amounts appropriated by the legislature to the University of Illinois, and to the State Laboratory of Natural History.

## REPORT OF THE LIBRARY COMMITTEE.

*To the Board of Trustees of the University of Illinois.*

Your Library Committee begs leave to report that it approves the recommendations of President Draper concerning persons to be employed in the library for the ensuing year and the salaries to be paid them.

Respectfully submitted,

LUCY L. FLOWER,  
MARY T. CARRIEL,  
JAMES E. ARMSTRONG,  
ALEX. MCLEAN,  
S. A. BULLARD,

*Committee on Library.*

The report of the Committee was adopted and the appointments were made as recommended.

## REPORTS FROM COMMITTEE ON INSTRUCTION.

## PHYSICS AND ELECTRICAL ENGINEERING.

URBANA, June 7, 1898.

*To the Board of Trustees of the University of Illinois.*

Your Committee on Instruction begs leave to report advising that the recommendations of President Draper with regard to the Physics and Electrical Engineering Department (see page 257) be approved, with the exception that he be requested to make a serious effort to bring Professor Swenson into more satisfactory relations with his associates in his department, and that he terminate Professor Swenson's connection with the University of Illinois unless satisfied that it is practicable to accomplish that result.

Respectfully submitted,

JAMES E. ARMSTRONG,  
*Chairman Committee on Instruction.*

The report of the Committee was adopted.

## CONFERRING HONORARY DEGREES.

URBANA, June 7, 1898.

*To the Board of Trustees of the University of Illinois.*

Your Committee on Instruction begs leave to offer the following resolution and to recommend its adoption:

WHEREAS, It is found to be the custom in state universities of the adjoining states to grant honorary degrees, therefore be it

*Resolved*, That it is the sense of this Board that honorary degrees be given, but only upon rare occasions for exceptionally high merit in literary, scientific, and other educational work, and upon a three-fourths vote of both the Faculty and Board of Trustees.

Respectfully submitted,

JAMES E. ARMSTRONG,  
S. A. BULLARD,  
T. J. SMITH,

*Committee on Instruction.*

This recommendation of the Committee was adopted by the following vote:

Ayes—Messrs. Pearce, Morrison, Armstrong, McLean, Bullard, Smith and Mrs. Carriel, (8); Noes—Mr. McKay and Mrs. Flower (2).

Mr. McKay being obliged then to go home called Mr. McLean to the chair and he presided for the remainder of the meeting.

Mr. Pearce was also obliged to withdraw at this time.

On motion of Mr. Smith \$100.00, or so much thereof as might be needed, was appropriated towards paying the expenses of the Alumni dinner.

The Committee on Students' Welfare reported as follows:

URBANA, June 7, 1898.

*To the Board of Trustees of the University of Illinois.*

Your Committee on Students' Welfare begs leave to report that it will answer the communications from physicians with regard to elevators in University building, saying that their letters have received careful attention, that the Board appreciates the importance of the subject, and hopes that, when the finances of the University will permit, the defect referred to may be remedied.

Respectfully submitted,

MARY T. CARRIEL,  
N. B. MORRISON,  
Committee on Students' Welfare.

The report was approved.

The following resolution presented by Mr. Bullard was adopted:

*Resolved*, That hereafter the recommendations of the President shall be presented to the Board with such explanation thereon as he may see fit to offer; that by general consent action may be had thereon at once; and that upon the request of any member any recommendation shall be referred to the proper committee for report at the same meeting of the Board.

Upon motion of Mr. Morrison, the matter of removing the old heating plant was referred to the Committee on Buildings and Grounds with power to act.

President Draper's bill of expenses since January 1, 1898, amounting to \$88.65, was ordered paid.

The Board then adjourned to meet at 9 o'clock, Wednesday morning.

MORNING SESSION, JUNE 8, 1898.

The Board met pursuant to adjournment and adjourned to meet at 3 o'clock in the afternoon.

AFTERNOON SESSION, JUNE 8, 1898.

When the Board met pursuant to adjournment the same members were present as at the close of the session of Tuesday evening except Mr. Armstrong, seven in all.

The committee appointed to prepare a minute with regard to the death of Hon. S. M. Inglis, presented the following which was adopted, and it was ordered that a copy of the minute be sent to the widow of the deceased:

HON. S. M. INGLIS, SUPERINTENDENT OF PUBLIC INSTRUCTION.

The removal of Samuel M. Inglis from the duties of earthly existence has withdrawn from the membership of this Board one of its most active and efficient members. We have recognized in Mr. Inglis a man of great heart, genial, courteous and manly; a wise adviser and counselor, familiar with all the problems of school management; an educator of a strong and sound judgment upon all duties of the state toward children in its care, and of a comprehensive conception of the potential influences of education upon our national growth and perpetuity.

Mr. Inglis entered into every phase of the work of this Board with diligence, wisdom, and faithfulness, and we are profoundly moved with the sense of loss sustained by this Board in his removal.

We extend to his bereaved wife and family our deep sympathy in their sorrow and trust that to them, as to ourselves, the memories of the noble, christian life just closed will alleviate the deep sorrow which overshadows them.

### REPORTS FROM COMMITTEE ON BUILDINGS AND GROUNDS.

SUPERINTENDENT OF BUILDINGS AND GROUNDS.

URBANA, June 8, 1898.

*To the Board of Trustees of the University of Illinois.*

In pursuance of your instructions passed at the meeting of last March, (see p. 42) your Committee on Buildings and Grounds, after considering a number of applications for the position of superintendent of buildings and grounds, has appointed Mr. Nelson S. Spencer, of Champaign. Mr. Spencer is a graduate of the University of the class of 1882, from the course in architecture. He had charge of the wood shops of the University for a year or two after his graduation, but severed his connection with the University to follow his profession in Nebraska. He returned from there to Champaign two years ago and is now a practicing architect in that city. His employment with us is to commence July first, salary \$100.00 per month.

Your committee recommends the following: That the superintendent of buildings and grounds be made the custodian of all drawings, plats, charts, maps, and surveys, and of pipe, drainage, plumbing, and wire systems of the buildings and grounds of the University; that a room or rooms of sufficient size be set apart for their bestowal and preservation and for labor connected therewith; that all new drawings, maps, plats, etc., be made on mounted white paper of scale of convenient size; that old drawings, plats, etc., that are not now in a form or condition for preservation be made new; that all changes, modifications, or extensions made in the buildings, plumbing, drainage, tunneling, water or gas piping, wiring, or other work, plats of which ought to be preserved, shall be carefully entered upon the old plats and drawings, and that such other records be made in book form as may be necessary and satisfactory; that the Committee on Buildings and Grounds have general supervision of the work herein contemplated and report from time to time to the Board; that the sum of \$200.00, or so much thereof as may be needed, be appropriated to provide furniture and materials, and that such labor as may be necessary be certified on the pay roll of the superintendent of buildings and grounds, and that such labor be under his direct charge.

Respectfully submitted,

S. A. BULLARD,  
J. E. ARMSTRONG,  
T. J. SMITH,  
LUCY L. FLOWER,

*Committee on Buildings and Grounds.*

The action of the Committee was approved and its recommendations were adopted. An appropriation of \$200,00 for the purposes named was made,

The Committee on Buildings and Grounds reported that the Heating, Lighting, and Power Plant was nearly completed and that the cost of the plant had exceeded the \$80,000.00 appropriated by the State for this purpose by about \$7,500.00.

The Committee recommended that to meet the deficiency there be appropriated \$5,000,00 from the equipment fund for the College of Engineering and \$2,500.00 from the general fund.

This recommendation was adopted and the sums named were appropriated.

The Committee on Buildings and Grounds reported that the cost of putting up lightning rods had exceeded the appropriation by \$135.44, and asked that this additional amount be appropriated.

The Committee also recommended that lightning rods be put on the farm house, the Observatory, and the buildings of the Heating Plant at an expense of not to exceed \$75.00,

Both these amounts were appropriated as recommended.

The Committee on Buildings and Grounds reported back President Draper's recommendations (see page 259) with regard to the management of the Central Heating Plant and advised that they be approved.

The report of the Committee was adopted.

The Committee on Buildings and Grounds asked that \$115.00 be appropriated for completing the lighting of the Gymnasium, and the amount was appropriated.

The Committee on Buildings and Grounds reported that Messrs. Ricker and White had incurred, upon the order of the Committee, in connection with certain improvements and repairs, expenses to the amount of \$71.00, and that Mr. White had incurred expenses to the amount of \$127.44.

The Committee recommended an appropriation to reimburse these gentlemen for their expenses, and also that \$150.00 be appropriated to pay Mr. White for services in connection with said improvements and repairs.

The recommendations of the Committee were adopted and the sums named were appropriated.

The Committee on Buildings and Grounds reported that it had made some investigations with regard to the expense of an independent water plant for the University, and had found that such a plant would cost about \$10,000.

The Committee recommended that, inasmuch as it was not advisable to take so large a sum from current University funds, an attempt be made to secure from the Legislature at its next session an appropriation for such plant.

It was ordered that for the present the Business Manager pay bills for water furnished the University at the rate of \$1,000 a year, paying quarterly.

On motion of Mrs. Flower, the Committee on buildings and Grounds was authorized and instructed to advertise for bids, and to let contracts for coal to be used by the University for the next year.

President Draper presented the following estimates, furnished by the Director of the Agricultural Experiment Station, of appropriations needed for the current quarter ending June 30, 1898, and the next quarter ending September 30, 1898.

AGRICULTURAL EXPERIMENT STATION—ESTIMATES, CURRENT QUARTER.

<i>From Farm Fund.</i>		
Labor.....		\$300 00
QUARTER ENDING SEPTEMBER 30, 1898.		
<i>From General Fund.</i>		
Salaries.....		\$1,830 00
Labor.....		605 00
Publications.....		275 00
Postage and stationery.....		30 00
Freight and express.....		30 00
Heat, light and water.....		30 00
Chemical supplies.....		25 00
Feeding stuffs.....		110 00
Tools, implements, and machinery.....		75 00
Scientific apparatus.....		510 00
Traveling expenses.....		30 00
Buildings and repairs.....		35 00
Contingent.....		165 00
Total.....		\$3,750 00
<i>From Farm Fund.</i>		
Labor.....		\$530 00
Seeds, plants, and sundry supplies.....		220 00
Total.....		\$750 00

Appropriations from Experiment Station funds were made to meet these estimates.

President Draper reported back, with his approval, the recommendations of Professor Forbes, Director of the State Laboratory of Natural History, with regard to appointments and salaries for the ensuing year beginning July 1, 1898, and the appointments were thereupon made, as follows:

C. A. Hart, systematic curator of collections.....	\$1,000 00
C. A. Kofoid, superintendent of Biological Station.....	1,300 00
C. C. Adams, entomological assistant.....	750 00
Mary J. Snyder, secretary.....	900 00
H. C. Forbes, librarian and business agent.....	1,100 00

Lydia M. Hart, artist, \$20.00 a month, with pay at the rate of 35 cents an hour when the work given her comes, at this rate, to more than the salary named.

E. B. Forbes, entomological assistant, \$70.00 a month.

Wallace Craig, laboratory assistant, \$45.00 a month from September 1, 1898.  
 E. H. Scott, office assistant, \$20.00 a month for the year beginning July 1, 1898.

The following resolution offered by Mr. Smith was adopted:

*Resolved*, That all communications pertaining to matters of business or to appointments, to be presented to the Board of Trustees for action, first be presented to President Draper for his examination and recommendation, and such other suggestions as he may deem proper.

This order shall apply to the U. S. Agricultural Experiment Station and to the State Laboratory of Natural History, as well as to other departments of the University.

TREASURER'S REPORT.

The Treasurer's report was then received and referred to the Finance Committee.

E. G. KEITH, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,

MARCH 31, 1898.

		<i>Dr</i>		
		Balance, December 31, 1897 .....		\$25,903 34
1898.				
January	6	From United States Treasurer for Agricultural Experiment Station .....	\$3,750 00	
"	8	From Treasurer of Illinois, for general fund .....	15,000 00	
"	29	From S. W. Shattuck, for Medical School fund .....	131 83	
"	29	" " School of Pharmacy fund .....	935 81	
"	29	" " interest on land contracts for general fund .....	1,600 49	
February	4	From S. W. Shattuck, for School of Medicine fund .....	5,000 00	
"	4	" " School of Pharmacy fund .....	1,156 74	
"	7	From Treasurer of Illinois, for general fund .....	15,000 00	
"	8	From S. W. Shattuck, for general fund .....	2,000 00	
"	7	" " paid warrants for Agricultural Experiment Station fund .....	410 82	
"	17	From S. W. Shattuck, paid warrants account of general fund .....	3,679 61	
"	26	From S. W. Shattuck, for general fund .....	631 85	
"	26	" " School of Medicine fund .....	1,000 00	
March	18	" " paid warrants for general fund .....	1,357 60	
"	18	" " for general fund .....	2,000 00	
"	22	" " School of Pharmacy fund .....	491 00	
"	24	" " School of Medicine fund .....	3,459 82	
"	28	From State Treasurer, general fund .....	15,000 00	
"	31	From S. W. Shattuck, paid warrants for general fund .....	1,662 98	
"	31	" " for general fund .....	2,000 00	
			76,268 55	
			\$102,171 89	
		<i>Cr.</i>		
March	31	By amount paid out of general fund, as per list of warrants herewith .....	\$63,202 43	
"	31	By amount paid out of Agricultural Experiment Station fund, as per list of warrants herewith .....	4,442 06	
"	31	By amount paid out of School of Pharmacy fund, as per list of warrants herewith .....	3,620 26	
"	31	By amount paid out of Laboratory of Natural History fund, as per list of warrants herewith .....	2,222 08	
"	31	By amount paid out of School of Medicine fund, as per list of warrants herewith .....	4,977 59	
February	24	By amount paid out by order of S. W. Shattuck, for cashier's check .....	150 00	
			\$78,614 42	

*Treasurer's Report—Concluded.*

<i>Balances—</i>			
General fund.....	\$8,439 65		
Experiment Station fund.....	1,816 57		
School of Medicine fund.....	14,921 90	\$25,178 12	
<hr/>			
School of Pharmacy fund—overdrawn...	\$1,258 62		
Laboratory of Natural History fund— overdrawn .....	362 03	1,620 65	
<hr/>			23,557 47
			\$102,171 89

## BUSINESS MANAGER'S REPORT.

The Business Manager's report was received and referred to the Finance Committee.

UNIVERSITY OF ILLINOIS, June 7, 1898.

*F. M. McKay, Esq., President of the Board of Trustees, University of Illinois.*

SIR:—I have the honor to hand you herewith my report as Business Manager, due at this time:

*Paper A* is a statement of the current appropriations March 31, 1898.

*Paper B* is a statement of the State appropriations March 31, 1898.

*Paper C* is a statement of the United States fund March 31, 1898.

*Paper D* is a statement of the Laboratory of Natural History fund March 31, 1898.

*Paper E* is a statement of the Agricultural Experiment Station fund March 31, 1898.

*Paper F* is a statement of the School of Pharmacy appropriations March 31, 1898.

*Paper G* is a statement of the School of Medicine appropriations March 31, 1898.

*Paper H* is an estimate of receipts and expenses for the twelve months ending June 30, 1899.

*Paper I* is a list of appropriations the Board is requested to make for the three months ending September 30, 1898.

*Paper L* is a statement of receipts by the Business Manager for three months ending March 31, 1898.

*Paper M* is a list of the general University vouchers presented for audit, being 1,326 to 2,050, inclusive.

*Paper N* is a list of the Laboratory of Natural History vouchers presented for audit, being 177 to 248, inclusive.

*Paper O* is a list of the Agricultural Experiment Station vouchers presented for audit, being 189 to 325, inclusive.

*Paper P* is a list of the School of Pharmacy vouchers presented for audit, being 120 to 168, inclusive.



## PAPER A—CURRENT APPROPRIATIONS.

March 31, 1898.	Appropriated.	Expended.	Balance.
Board expenses .....	\$2,092 26	\$1,565 55	\$526 71
Salaries for instruction and for President { Current..... U. S. Fund..... State..... }	81,221 96	{ 10,244 97 23,000 00 47,813 08 }	163 91
Salaries for services { Current..... State..... }	14,054 82	{ 12,406 66 1,648 16 }	.....
Buildings and grounds .....	2,600 00	2,561 66	38 34
Fuel and lights .....	11,199 67	8,905 79	2,293 88
Stationery and printing .....	2,608 11	1,551 23	1,027 85
Preparatory School .....	3,389 21	3,388 66	55
Repair shop .....	3,506 00	3,032 66	473 34
Mechanical Department .....	2,220 75	1,745 78	474 97
Departments .....	1,520 75	399 62	1,121 13
Laboratories .....	3,937 63	3,086 78	850 85
Library and apparatus .....	203 18	64 36	138 82
Incidental expenses .....	2,522 77	1,505 38	1,017 39
<i>Sundries.</i>			
Furniture and fixtures .....	706 98	485 74	221 24
Heating apparatus .....	1,190 55	277 10	913 36
Water supply .....	500 00	375 00	125 00
Minnesota lands .....	222 72	189 76	32 96
Greenhouse .....	300 25	61 78	238 47
Land for experiments .....	35 00	35 00	.....
South farm .....	227 15	108 83	118 32
State Fair exhibit .....	500 00	372 22	127 78
Publication of essay .....	75 00	.....	75 00
Removal of men's gymnasium .....	1,000 00	138 77	861 23
Bridge .....	429 00	429 00	.....
Winter School of Agriculture .....	100 00	51 32	48 68
Moving to Library Hall .....	500 00	192 63	307 37
Court expenses .....	10 45	10 45	.....
Library School .....	300 00	291 45	8 55
Blue print room .....	150 00	44 61	105 39
	\$137,325 21	\$126,014 12	\$11,311 09

## PAPER B—STATE APPROPRIATIONS, MARCH 31, 1898.

1895-1897.	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc.—</i>				
Closed out .....	\$167,985 24	\$167,985 54	.....	.....
Toilet rooms .....	375 00	355 09	\$19 91	\$19 91
Art and design .....	250 00	250 00	.....	.....
Physical training .....	1,220 00	1,220 00	.....	.....
Lectures .....	199 69	114 50	85 19	85 19
Preparatory School .....	190 00	142 16	47 84	47 84
Advertising .....	3,900 00	3,900 00	.....	.....
College of Literature and Arts, books .....	200 00	185 61	14 39	14 39
Accredited schools .....	500 00	500 00	.....	.....
Signal bells .....	100 00	82 92	17 08	17 08
Botany (herbarium, etc.) .....	150 00	113 51	36 49	36 49
Mechanical engineering laboratory .....	695 00	619 18	75 82	75 82
Chemical laboratory (repairs.) .....	9,180 00	9,035 48	144 52	144 52
Furniture and fixtures .....	400 00	400 00	.....	.....
Zoological department .....	95 00	38 85	56 15	56 15
Bronze tablet .....	175 00	171 50	3 50	3 50
Physics .....	600 00	552 65	17 35	17 35
Law school .....	3,500 00	2,967 58	532 42	532 42
	\$189,714 93	\$188,664 27	\$1,050 66	\$1,050 66

## Paper B—State Appropriations—Continued.

1895-1897.	Received.	Expended.	Balance.	Assigned.
<i>Apparatus and materials—</i>				
Closed out.....	\$4,020 00	\$4,020 00	.....	.....
Applied chemistry.....	100 00	100 00	.....	.....
Physiology and hygiene.....	800 00	800 00	.....	.....
Botany and horticulture.....	680 00	680 00	.....	.....
Geology.....	400 00	332 46	\$67 54	\$67 54
	\$6,000 00	\$5,932 46	\$67 54	\$67 54
<i>Laboratory of Vegetable Physiology.....</i>				
	\$2,000 00	\$1,975 30	\$24 70	\$24 70
<i>Vaccine Laboratory.....</i>				
	\$3,000 00	\$3,000 00	.....	.....
<i>Cabinets—</i>				
Geology.....	\$666 67	\$650 86	\$15 81	\$15 81
Botany.....	666 67	31 40	635 26	635 26
Zoology.....	666 67	101 10	565 57	565 57
	\$2,000 00	\$783 36	\$1,216 64	\$1,216 64
<i>College of Engineering—</i>				
Closed out.....	\$21,965 31	\$21,965 31	.....	.....
Electrical engineering and physics.....	3,829 85	3,829 67	\$0 18	\$0 18
Laboratory of Applied Mechanics and Municipal and Sanitary Engineering..	1,852 42	1,852 42	.....	.....
Architecture.....	1,752 42	1,752 42	.....	.....
College, library, parlor, etc.....	600 00	600 00	.....	.....
	\$30,000 00	\$29,999 82	\$0 18	\$0 18
<i>Furnishing and Fitting Engineering Hall—</i>				
Closed out.....	\$1,670 20	\$1,670 20	.....	.....
Architecture.....	770 38	769 80	\$0 58	\$0 58
Municipal and Sanitary Engineering.....	401 30	388 90	12 40	12 40
Mechanical department.....	563 78	541 23	22 55	22 55
Electrical engineering and physics.....	1,193 39	1,112 27	81 12	81 12
College library, etc.....	400 95	364 53	36 42	36 42
	\$5,000 00	\$4,846 93	\$153 07	\$153 07
<i>Salaries, etc.—</i>				
1897-1899.				
Closed out.....	\$600 00	\$600 00	.....	\$600 00
Salaries for instruction.....	47,813 08	47,813 08	.....	47,813 08
Salaries for services.....	1,648 16	1,648 16	.....	1,648 16
Agricultural department.....	3,556 00	1,601 27	\$1,954 73	3,556 00
Administrative offices.....	300 00	.....	300 00	300 00
Advertising.....	1,000 00	62 43	937 57	1,000 00
Art and design.....	300 00	41 87	258 13	300 00
Accredited schools.....	500 00	92 65	407 35	500 00
Buildings and grounds.....	4,053 48	4,053 48	.....	4,053 48
College of Literature and Arts.....	250 00	.....	250 00	250 00
Conservatory.....	5,526 32	5,526 32	60	5,526 32
Decorating Library Hall.....	3,500 00	2,500 00	1,000 00	3,500 00
Heating apparatus.....	1,500 00	1,021 06	478 94	1,500 00
Furniture and fixtures.....	700 00	541 16	158 84	700 00
<i>Illinois Agriculturist</i> .....	100 00	50 00	50 00	100 00
<i>Illini</i> .....	500 00	375 00	125 00	500 00
<i>Illio</i> .....	100 00	100 00	.....	100 00
Library supplies.....	550 00	352 67	197 33	550 00
Lockjaw experiment.....	50 00	15 40	34 60	50 00
Natural History Hall fire.....	3,700 00	3,700 00	.....	3,700 00
Oratorical contest.....	200 00	.....	200 00	200 00
Physical training.....	500 00	87 34	412 66	500 00
Preparatory School.....	250 00	.....	250 00	250 00
School of Music.....	500 00	431 21	68 79	500 00
<i>Technograph</i> .....	100 00	.....	100 00	100 00
Typewriting bureau.....	250 00	199 23	50 77	250 00
Woman's department.....	300 00	.....	300 00	300 00
Mechanical engineering shops.....	210 00	37 50	172 50	210 00
Unassigned.....	31,442 36	.....	31,442 36	.....
	\$110,000 00	\$70,849 83	\$39,150 17	\$78,557 64

Paper B—State Appropriations—Concluded.

1895-1897.	Received.	Expended.	Balance	Assigned.
<i>Engineering equipment—</i>				
Architecture.....	\$500 00	\$225 84	\$274 16	\$500 00
Civil engineering.....	500 00	128 83	371 17	500 00
Mechanical engineering.....	3,750 00	1,275 65	2,474 35	3,750 00
Physics and electrical engineering.....	3,750 00	1,547 75	2,202 25	3,750 00
Theoretical and applied mechanics and municipal and sanitary engineering.....	1,000 00	519 75	480 25	1,000 00
Colleg. (in general).....	500 00	62 45	437 55	500 00
	\$10,000 00	\$3,760 27	\$6,239 73	\$10,000 00
<i>Apparatus and materials—</i>				
Astronomical Observatory.....	\$510 00	\$389 27	\$120 73	\$510 00
Botany and horticulture.....	340 00	306 79	33 21	340 00
Zoölogy.....	200 00	112 31	87 69	200 00
Geology.....	200 00	.....	200 00	200 00
Applied chemistry.....	175 00	8 72	166 28	175 00
Psychology.....	50 00	13 14	36 86	50 00
Physiology.....	500 00	67 60	433 00	500 00
Chemistry.....	500 00	410 26	89 74	500 00
Unassigned.....	525 00	.....	525 00	.....
	\$3,000 00	\$1,397 40	\$1,692 51	\$2,475 00
<i>Completing Library Hall.....</i>	\$5,000 00	\$5,000 00	.....	\$5,000 00
<i>Furnishing Library Hall.....</i>	\$5,000 00	\$4,828 94	\$171 06	.....
<i>Cabinets.....</i>	\$1,000 00	.....	\$1,000 00	\$7,000 00
<i>Fire protection.....</i>	\$1,000 00	\$194 27	\$805 73	\$1,000 00
<i>Vaccine Library.....</i>	\$1,200 00	\$169 44	\$1,030 56	\$1,200 00
<i>Equipment of men's gymnasium.....</i>	\$3,000 00	\$1,626 60	\$1,373 40	\$3,000 00
<i>Taxes on Minnesota lands.....</i>	\$1,800 00	\$1,738 81	\$61 19	\$1,800 00
<i>Water survey.....</i>	\$3,000 00	\$1,525 16	\$1,474 84	\$3,000 00
<i>Chemical equipment.....</i>	\$5,000 00	\$3,157 00	\$1,843 00	\$5,000 00
<i>Library.....</i>	\$5,000 00	\$2,910 13	\$2,089 87	\$5,000 00
<i>Pavement and walks.....</i>	\$3,000 00	\$2,728 17	\$271 83	\$3,000 00
<i>Shop practice.....</i>	\$1,500 00	\$678 88	\$821 12	\$1,500 00
<i>Central heating plant.....</i>	\$40,000 00	\$37,697 91	\$2,302 09	\$40,000 00
<i>Bridge (Burrill avenue).....</i>	\$500 00	\$500 00	.....	\$500 00

PARER C—UNITED STATES FUND.

Year ending June 30, 1898.	Received.	Expended.	Balance.	Assigned.
Salaries for instruction.....	\$23,000 00	\$23,000 00	.....	.....

## PAPER D—LABORATORY OF NATURAL HISTORY.

<i>1895-1897.</i>	Received.	Expended.	Balance.	Assigned.
General balance July 1, 1896.....	\$253 68		\$253 68	\$253 68
Closed out.....	8,150 00	\$8,150 00		8,150 00
Report of Entomologist.....	250 00	191 32	58 68	250 00
Diseases of insects.....	1,500 00	968 68	531 32	1,500 00
	<b>\$10,153 68</b>	<b>\$9,310 00</b>	<b>\$843 68</b>	<b>\$10,153 68</b>
<i>1897-1898.</i>				
Salaries and assistants.....	\$4,000 00	\$2,907 20	\$1,092 80	\$4,000 00
Field, office, etc.....	1,500 00	700 25	799 75	1,500 00
Library.....	1,500 00	634 56	865 44	1,500 00
Bulletins.....	750 00	627 84	122 16	750 00
Report of Entomologist.....	250 00		250 00	250 00
Biological Experiment Station.....	3,000 00	2,425 92	574 08	3,000 00
	<b>\$11,000 00</b>	<b>\$7,295 77</b>	<b>\$3,704 23</b>	<b>\$11,000 00</b>

## PAPER E—AGRICULTURAL EXPERIMENT STATION.

<i>1897-1898.</i>	Appropriated.	Expended.	Balance.
<i>General fund—</i>			
Salaries.....	\$5,629 93	\$5,619 93	\$10 00
Labor.....	2,296 59	2,422 96	
Publications.....	550 00	825 13	
Postage and stationery.....	80 00	74 24	5 76
Freight and express.....	97 00	114 13	
Heat, light, and water.....	203 90	120 00	83 90
Chemical supplies.....	51 00	12 24	38 76
Seeds, plants, and sundries.....	275 07	208 72	66 65
Feeding stuffs.....	269 00	231 75	37 25
Library.....	274 16	267 12	7 04
Tools, implements, and machinery.....	352 64	460 88	
Scientific apparatus.....	548 67	391 29	157 38
Live stock.....	50 00	40 00	10 00
Traveling expenses.....	240 00	187 32	52 68
Contingent.....	108 33	147 07	
Buildings and repairs.....	193 71	318 63	
Furniture and fixtures.....	30 00	28 47	1 53
	<b>\$11,250 00</b>	<b>\$11,469 93</b>	
<i>Farm fund—</i>			
Labor.....	\$1,433 00	\$1,118 59	\$314 41
Seeds, etc.....	664 00	771 70	
	<b>\$2,097 00</b>	<b>\$1,890 29</b>	

## PAPER F—SCHOOL OF PHARMACY.

1897-1898.	Appropriated.	Expended.	Balance.
Salaries for instruction .....	\$4,043 66	\$4,043 66	.....
Salaries for services.....	1,375 00	1,375 00	.....
Buildings and grounds.....	2,741 73	2,741 73	.....
Fuel and lights.....	488 96	488 96	.....
Stationery and printing.....	173 02	173 02	.....
Laboratories.....	1,192 77	1,192 77	.....
Library.....	5 50	5 50	.....
Incidentals.....	428 73	428 73	.....
Sundries.....	199 69	199 69	.....
Advertising.....	837 07	837 07	.....
Furniture and fixtures.....	98 36	98 36	.....
Museum.....	22 50	22 50	.....
Unassigned.....	31 40	.....	31 40
	\$11,638 39	\$11,606 99	\$31 40

## PAPER G—SCHOOL OF MEDICINE.

1897-1898.	Appropriated.	Expended	Balance.
Salaries for instruction.....	\$2,225 00	\$2,225 00	.....
Salaries for services.....	4,153 69	4,153 69	.....
Buildings and grounds.....	8,617 15	8,617 15	.....
Fuel and lights.....	1,382 39	1,382 39	.....
Stationery and printing.....	263 25	263 25	.....
Laboratories.....	1,291 10	1,291 10	.....
Books and publications.....	25 00	25 00	.....
Apparatus and materials.....	1,634 44	1,634 44	.....
Incidentals.....	486 47	486 47	.....
Advertising.....	2,266 07	2,266 07	.....
Furniture and fixtures.....	245 56	245 56	.....
Unassigned.....	7,409 88	.....	\$7,409 88
	\$30,000 00	\$22,590 12	\$7,409 88

PAPER L—RECEIPTS BY THE BUSINESS MANGER FOR THE THREE MONTHS ENDING  
MARCH 31, 1898.

Principal on land contracts.....	\$340 00	
Interest on land contracts.....	335 78	
University fees.....	7,487 27	
Music fees.....	511 00	
Preparatory School.....	1,914 98	
Repair shop.....	88 91	
Fuel and lights (coal).....	114 45	
Mechanical department.....	54 53	
Greenhouse.....	71 46	
Buildings and grounds.....	15 00	
Minnesota lands, rents.....	220 76	
Library School.....	9 43	
Chemical laboratory.....	1,075 19	
Physical laboratory.....	25 90	
Zoölogical laboratory.....	17 89	
Physiological laboratory.....	5 10	
Geological laboratory.....	5 48	
Mineralogical laboratory.....	3 66	
Botanical laboratory.....	8 15	
Preparatory laboratory.....	24 12	
Civil engineering.....	13 05	
General engineering drawing.....	28 31	
Agricultural Experiment Station.....	683 08	
School of Medicine.....	9,591 65	
School of Pharmacy.....	2,267 74	
		\$24,912 89

*Paper Q* is a list of the School of Medicine vouchers presented for audit, being 207 to 315 inclusive;

*Paper R* is a bill from Cunningham & Boggs for printing in the Bruner case;

The whole of the \$40,000, the present year's appropriation for the central heating plant, has been expended, and also the greater part of the \$40,000 for the next year. It will be necessary for the Board to provide for the interest on this payment, and for any payments above the \$80,000 appropriated by the State.

Respectfully submitted,

S. W. SHATTUCK,  
*Business Manager.*

In accordance with the recommendations of the Business Manager the following appropriations were made for the quarter ending June 30, 1898.

APPROPRIATIONS FOR QUARTER ENDING SEPTEMBER 20, 1898.

Board expenses.....	\$500 00	
Salaries for instruction.....	30,000 00	
Salaries for services.....	4,000 00	
Buildings and grounds.....	2,000 00	
Fuel, lights, and electric power.....	3,000 00	
Stationery, printing, etc.....	1,000 00	
Advertising and postage.....	2,400 00	
Repair shop.....	1,000 00	
Mechanical department.....	500 00	
Departments.....	300 00	
Laboratories.....	2,000 00	
Library and apparatus.....	50 00	
Incidentals.....	800 00	
Furniture and fixtures.....	500 00	
Heating apparatus.....	500 00	
Water supply.....	500 00	
Greenhouse.....	200 00	
Blue print room.....	200 00	
Minnesota lands.....	200 00	
Library School.....	200 00	
Library supplies.....	200 00	\$49,650 00
School of Pharmacy.....	\$1,500 00	
School of Medicine.....	8,000 00	
Agricultural Experiment Station.....	4,500 00	
Laboratory of Natural History.....	3,000 00	
Water survey of the State.....	750 00	\$17,750 00
		\$67,460 00

An appropriation of \$900 00, or so much thereof as might be needed, was made to meet the interest due on amounts advanced by Treasurer.

The bill of *The Herald* for printing abstract and brief in the Bruner case, amounting to \$28.00, was approved and the amount appropriated.

The Business Manager was authorized to pay the Treasurer's clerk at the rate of \$600.00 a year.

For the payment of band scholarships \$225.00 was appropriated, and \$270.00 for the payment of military scholarships.

The following resolution offered by Mr. Smith was adopted:

*Resolved.* That this Board hereby sets apart as an athletic park to be called Illinois Field, a part of the north campus extending 700 ft. south from the

south line of University avenue, and hereby appropriates the sum of \$3,000.00 for the improvement of the same, in accordance with the recommendations presented by the Athletic Advisory Board, and that such improvement be made under the direction of the Committee on Buildings and Grounds as fast as funds in hand shall justify.

REPORT OF FINANCE COMMITTEE.

URBANA, June 8, 1898.

*To the Board of Trustees of the University of Illinois.*

Your Finance Committee begs leave to report that it has examined the vouchers submitted by the Business Manager on which warrants have been issued and paid as follows:

General University warrants, Nos. 1,326 to 2,050, inclusive, except No. 2,040; Agricultural Experiment Station warrants, No. 189 to 325, inclusive; State Laboratory of Natural History warrants, Nos. 177 to 248, inclusive, except No. 225; School of Pharmacy warrants, Nos. 120 to 168, inclusive; School of Medicine warrants, Nos. 207 to 315, inclusive, and has found the same correct and duly received.

Your committee also examined the report of the Treasurer of the University, Elbridge G. Keith, for the quarter ending March 31, 1898, and found that the receipts for the quarter, together with the balances on hand, amounted to \$102,171.89; that the amount paid out on warrants drawn through the quarter was \$78,614.42, including overdrafts on funds of the School of Pharmacy and of the State Laboratory of Natural History, amounting to \$1,620.65; that the Experiment Station balance and the School of Medicine balance amount to \$25,178.12.

Respectfully submitted,

ALEX. McLEAN,  
THOS. J. SMITH,  
ISAAC S. RAYMOND,

*Finance Committee.*

Matters concerning the School of Pharmacy were referred to the Committee on the School of Pharmacy with power to act.

The board adjourned.

W. L. PILLSBURY,

*Secretary.*

F. M. McKAY,

*President.*

## MEETING OF JULY 7, 1898.

The following call for a special meeting of the Board of Trustees of the University of Illinois was issued July 2, 1898:

“Upon the call of the President, Mr. F. M. McKay, there will be a special meeting of the Board of Trustees of the University of Illinois at 9 o'clock a. m., Thursday, July 7, 1898, in the Trustees' Room, Library Hall, Urbana, Illinois, to consider matters concerning the electrical department of the University, and such other business as may be duly presented.”

There were present at the meeting Messrs. Bullard, McKay, McLean, Morrison, Raymond, and Smith and Mrs. Carriel; absent, Governor Tanner, Messrs. Armstrong, Freeman, and Pearce, and Mrs. Flower.

After some discussion of the subject for which the meeting was called, the Board took a recess until 11 o'clock.

After recess the Board received an invitation from Professor Davenport to visit the Experiment Station farm and see the planting of sugar beets, and the invitation was accepted on motion of Mr. Bullard.

President McKay presented Professor Swenson's resignation of his position of assistant professor of electrical engineering in the University.

Mr. Smith moved to accept the resignation, and then moved that further consideration of the matter be postponed until the September meeting of the Board.

The vote on the motion to postpone was as follows: Ayes—Messrs. Bullard, McLean, Morrison, Raymond, Smith and Mrs. Carriel; nay—Mr. McKay, and the motion to postpone prevailed.

The Board adjourned.

W. L. PILLSBURY,

*Secretary.*

F. M. MCKAY,

*President.*



*Financial Statement of the University of Illinois for the twelve months ending June 30, 1897.*

RECEIPTS, JULY 1, 1896—JUNE 30, 1897.		
Balances—		
State appropriation, general.....	\$170,180 25	
State appropriation, Laboratory of Natural History.....	246 73	
U. S. Agricultural Experiment Station .....	166 28	
Overdraft current funds.....		\$170,593 26
		1,237 08
Interest on endowment and land contracts.....	\$23,241 10	
Fees from students.....	22,915 95	
Departments and laboratories.....	3,638 83	
Miscellaneous.....	7,407 21	
State appropriations.....	111,364 93	
State appropriations, Laboratory Natural History.....	9,900 00	
U. S. Government.....	22,000 00	
U. S. Agricultural Experiment Station.....	18,018 67	
School of Pharmacy.....	13,465 46	
School of Medicine.....	3,152 00	
		\$35,104 14
		\$404,460 32
EXPENDITURES, JULY 1, 1896—JUNE 30, 1897.		
Salaries for instruction.....	\$106,455 35	
Salaries for services.....	13,511 70	
Departments and laboratories.....	4,610 90	
Miscellaneous.....	16,672 21	
State appropriation (ther than for salaries.....	167,987 25	
		309,237 41
Laboratory of Natural History.....	\$8,800 67	
Agricultural Experiment Station.....	18,107 75	
School of Pharmacy.....	13,585 36	
School of Medicine.....	3,088 43	
		43,582 21
Balance.....		\$51,640 70
		\$404,460 32

## WARRANTS FOR YEAR ENDING JUNE 30, 1898.

## GENERAL UNIVERSITY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July	C. A. Kofoid.....	Salary, part May and June, 1897....	\$189 76
2	"	Miles Newberry.....	"	40 00
3	"	Lydia M. Hart.....	Drawings.....	31 85
4	"	U. & C. Elect. St. R'y Co.....	Gas and power.....	750 29
5	"	Odin Coal Co.....	Coal.....	1,110 03
6	"	Petty & Sayers.....	Cabinet.....	69 50
7	"	A. P. Carman.....	Petty expenses.....	3 70
8	"	E. G. Howe.....	"	6 70
9	"	H. E. Summers.....	"	25 57
10	"	Hack & Anderson.....	Printing catalogue.....	739 00
11	"	Maxwell & Mollett.....	Jars, etc.....	5 50
12	"	J. C. Sedgwick.....	Trestle work.....	11 08
13	"	E. W. Sampson.....	Trays.....	9 50
14	"	Kny. Scheerer Co.....	Chemicals, etc.....	25 40
15	"	Richards & Co.....	Milk tester.....	8 85
16	"	George W. Parker & Son.....	Cases, door, etc.....	64 62
17	"	Creamery Package Mfg Co.....	Creamery apparatus, etc.....	16 12
18	"	C. & U. Phoenix Telephone Co.....	Services to September 5, 1897.....	45 00
19	"	Union Mfg Co.....	Water, 3 months, to July 1, 1897.....	125 00
20	"	<i>Champaign County Herald</i> .....	Printing proceedings, etc.....	88 25
21	"	Standard Oil Co.....	Oil.....	20 93
22	"	Richards & Co.....	Tubing, filter, paper, etc.....	24 56
23	"	Charles W. Bird & Co.....	Duplicator and supplies.....	3 83
24	"	Edward J. Nolan, treasurer.....	Proceedings for 1897.....	5 00
25	"	Ginn & Co.....	Subscription.....	2 00
26	"	Crosby Steam Gauge and V. Co.....	Gauges, tubes, etc.....	111 91
27	"	Whitall, Tatum & Co.....	Chemicals.....	22 52
28	"	Eichberg & Bear.....	Wire mats, etc.....	19 00
29	"	Carl Fischer.....	Mu-ic.....	5 89
30	"	Public School Publishing Co.....	Advertisement.....	12 50
31	"	Illinois Farmers' Institute.....	"	20 00
32	"	Asheroft Mfg Co.....	Indicator cocks.....	11 20
33	"	J. H. Washburn.....	Membership fee, 1897.....	10 00
34	"	Eimer & Amend.....	Thermometers, etc.....	115 25
35	"	Eugene Dietzgen Co.....	Paper, cloth, etc.....	11 97
36	"	Diamond Clamp and Flask Co.....	Brass castings.....	8 03
37	"	Ralph Allen.....	Jersey calf.....	25 00
38	"	Cleveland Twist Drill Co.....	Socket, reamers, etc.....	4 05
39	"	Charles A. Schieren & Co.....	Cement.....	1 40
40	"	James B. Clow & Sons.....	Unions, plugs, valves, etc.....	13 55
41	"	Fuller & Fuller Co.....	Corks, glass, drugs, etc.....	115 58
42	"	Bausch & Lomb Optical Co.....	Minerals, microscope.....	346 24
43	"	Riley Jew-elry Co.....	Stop watch.....	4 50
44	"	H. McFadden & Bro.....	Hay and straw.....	7 45
45	"	F. D. Winkley.....	Cover and tap.....	1 41
46	"	Orr & Lockett Hardware Co.....	Screw hooks, etc.....	4 46
47	"	J. C. Vaughan.....	Seeds.....	9 13
48	"	Lyon & Healey.....	Music.....	9 13
49	"	C. H. Evans & Co.....	Advertisement.....	5 00
50	"	G. E. Stechert.....	Subscription, n, etc.....	55 36
51	"	Boyer Ry Speed Recorder Co.....	Charts, etc.....	3 94
52	"	Maltby & Wallace Co.....	Cap, screws, etc.....	12 68
53	"	Twin City Electric Co.....	Rubber tubing, etc.....	1 35
54	"	Mittendorf & Kiler.....	Wardrobe, glass, etc.....	15 35
55	"	J. D. Phillips.....	Lettering diplomas.....	76 50
56	"	Thomas Franks.....	Flower pots.....	1 00

Warrants—Continued.

No.	Date	To whom.	For what.	Amount.
57	July 1897.	1 E. H. Davis & Co.....	Alcohol.....	\$1 20
58	"	Goodrich Hard Rubber Co.....	Tubing, etc.....	7 80
59	"	Hubbard & Sons.....	Hardware, plumbing, etc.....	33 13
60	"	Yale & Towne Mfg Co.....	Locks, keys, etc.....	11 62
61	"	The Smith Prem'r Typewrit'r Co	Ribbons.....	9 00
62	"	Western Banknote and Eng. Co	Diplomas.....	25 00
63	"	Engineering News Pub. Co.....	Advertisement, to July 17, 1897.....	6 88
64	"	Chicago Times-Herald.....		31 00
65	"	Hammer Dry Plate Co.....	Dry plates.....	10 40
66	"	J. T. Wolcott.....	Typewriting.....	2 50
67	"	J. D. Wallace.....	Tees, unions, etc.....	4 74
68	"	T. H. Trevett.....	Tin, galvanized iron, etc.....	12 08
69	"	A. F. Wuestemann.....	Stop watch and repairing.....	6 50
70	"	A. C. McClurg & Co.....	Printing invitations and stationery	151 98
71	"	D. H. Lyde & Son.....	Books, supplies, etc.....	12 80
72	"	William Price.....	Calceimining, painting, etc.....	101 35
73	"	E. Henry.....	Janitor supplies, etc.....	60 10
74	"	<i>The Gazette</i> .....	Printing announcement, etc.....	222 45
75	"	C. T. Wilder.....	Blue prints.....	57 05
76	July 10	F. M. McKay.....	Expenses to board meeting.....	160 78
77	"	Alex. McLean.....	"	28 57
78	"	J. E. Armstrong.....	"	67 88
79	"	T. J. Smith.....	"	95 05
80	"	Isaac S. Raymond.....	"	62 50
81	"	Munn, Haves & Miller.....	Services and expenses.....	835 00
82	"	Chicago Legal News Co.....	Laws of 1897.....	2 00
83	"	H. P. Harris.....	Mimeograph work.....	17 15
84	"	Bevis & Co.....	Stakes.....	10 00
85	"	B. V. Swens n.....	Expenses.....	61 25
86	"	Robinson & Burr.....	Test pine, fire clay, etc.....	56 47
87	"	A. P. Cunningham & Son.....	Drugs, basket balls, etc.....	25 05
88	"	Henry Trevett.....	Hardware, etc.....	100 31
89	"	C. A. Besore.....	Lumber, etc.....	149 87
90	"	G. C. Willis.....	Bunting, crash, etc.....	139 66
91	"	S. A. Forbes.....	Expenses.....	57 80
92	"	W. O. Krohn.....	"	38 20
93	"	Goes Lithograph ng Co.....	Printing warrant books.....	41 66
94	"	T. R. Leal.....	Grading, hauling, etc.....	59 61
95	"	Amos F. Moore.....	Horses.....	425 00
96	"	Warner & Swasey.....	Teles ope.....	1,200 00
97	"	Hubbard & Sons.....	Hardware, etc.....	20 98
98	"	J. C. Sedgwick.....	Expenses and lumber.....	12 23
99	"	James H. Rice Co.....	Lumber.....	23 45
100	"	Charles H. Mears & Co.....	"	249 59
101	July 15	<i>Inter Ocean</i> .....	Printing proposals.....	40 80
102	"	Tribune Co.....	"	34 20
103	"	Ashcroft Mfg Co.....	Indicators, etc.....	36 25
104	"	William Price.....	Painting.....	30 00
105	"	W. W. Walls & Co.....	Lumber.....	81 27
106	"	<i>Champaign County Herald</i> ...	Printing letter head.....	34 50
107	"	Crosby Steam Gauge and V. Co	Cards.....	2 00
108	"	Champaign Supply Co.....	Gat- valves, etc.....	14 62
109	"	A. H. Abbott & Co.....	Mats.....	15 00
110	"	Western Union Telegraph Co.	Telegrams for May and June	38 43
111	"	A. B. Dick Co.....	Mimeograph paper, etc.....	5 76
112	"	D. Appleton & Co.....	Books.....	6 00
113	"	Ward Bros.....	Binding, etc.....	101 64
114	"	Thomas Naughton.....	Photographs.....	7 00
115	"	Charles A. Besore.....	Lumber.....	60 77
116	"	Bevis & Co.....	Sash.....	3 60
117	"	T. H. Trevett.....	Labor, hardware, etc.....	13 30
118	"	Clayton F. Summy Co.....	Tuning pianos.....	7 50
119	"	Twin City Electric Co.....	Batteries, etc.....	9 04
120	"	B. V. Swenson.....	Expenses wiring building, etc.	20 00
121	"	Isaac P. Iding.....	Postage.....	35 00
122	"	W. W. Lindley.....	"	120 00
123	"	S. W. Shattuck, business mgr.	Su dry items.....	84 61
124	"	S. W. Shattuck, business mgr.	Pay-rolls of students, June, 1897.....	542 94
125	"	S. W. Shattuck, business mgr.	Pay-rolls of men, June, 1897.....	620 43
126	July 31	A. S. Draper.....	Salary, July, 1897.....	583 33
127	"	T. J. Burrill.....	"	200 00
128	"	S. W. Shattuck.....	"	166 66
129	"	N. C. Ricker.....	"	191 66
130	"	Ira O. Baker.....	"	183 33
131	"	S. A. Forbes.....	"	83 33
132	"	C. W. Rolfe.....	"	175 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1896.			
133	July 31	D. McIntosh.....	Salary, July, 1897.....	\$50 00
134	"	A. N. Talbot.....	"	175 00
135	"	A. W. Palmer.....	"	175 00
136	"	F. F. Frederick.....	"	158 33
137	"	S. W. Parr.....	"	175 00
138	"	H. J. Barton.....	"	166 66
139	"	C. M. Moss.....	"	175 00
140	"	D. K. Dodge.....	"	166 66
141	"	L. P. Breckonridge.....	"	166 66
142	"	David Kinlev.....	"	187 50
143	"	Eugene Davenport.....	"	91 66
144	"	Arnold Tompkins.....	"	150 00
145	"	A. P. Carman.....	"	187 50
146	"	George W. Myers.....	"	145 83
147	"	H. E. Summers.....	"	137 50
148	"	E. J. Townsend.....	"	137 50
149	"	E. B. Greene.....	"	141 66
150	"	James M. White.....	"	125 00
151	"	Katharine Merrill.....	"	108 33
152	"	W. O. Krohn.....	"	150 00
153	"	W. H. Van Dervoort.....	"	137 50
154	"	W. D. Pence.....	"	125 00
155	"	H. S. Grindley.....	"	100 00
156	"	T. A. Clark.....	"	125 00
157	"	B. V. Swenson.....	"	100 00
158	"	A. H. Daniels.....	"	100 00
159	"	Percy F. Bicknell.....	"	129 16
160	"	Geo. D. Fairfield.....	"	108 33
161	"	Chas. W. Tooke.....	"	100 00
162	"	Walter H. Jones.....	"	75 00
163	"	Henry H. Everett.....	"	116 66
164	"	Fred A. Sager.....	"	91 66
165	"	Wm. Esty.....	"	100 00
166	"	Lewis A. Rhoades.....	"	125 00
167	"	Frank Smith.....	"	130 00
168	"	C. D. McLane.....	"	91 66
169	"	P. G. Holden.....	"	50 00
170	"	J. E. McGilvrey.....	"	100 00
171	"	W. J. Fraser.....	"	33 33
172	"	J. C. Blair.....	"	41 66
173	"	Edward G. Howe.....	"	150 00
174	"	W. L. Pillsbury.....	"	158 33
175	"	Geo. W. Graham.....	"	100 00
176	"	Lillie Heath.....	"	60 00
177	"	Sue W. Ford.....	"	50 00
178	"	L. A. Boice.....	"	50 00
179	"	W. F. Marker.....	"	50 00
180	"	D. McIntosh.....	"	75 00
181	"	C. V. Millar.....	"	60 00
182	"	Richard Uttenweiler.....	"	50 00
183	"	Henry J. East.....	"	40 00
184	"	W. R. Hoffman.....	"	37 00
185	"	L. G. Lathrop.....	"	32 00
186	"	J. J. Johnson.....	"	32 00
187	"	Joe Morrow.....	"	75 00
188	"	Albert R. Lee.....	"	20 00
189	"	B. F. Sturtevant Co.....	Extras on heating contract.....	85 00
190	"	H. M. Dickson Mfg Co.....	Changing counters.....	114 50
191	"	Robinson & Burr.....	Speaking tubes.....	48 00
192	"	Peoria Steam Marble Works.....	Contract and extras.....	158 50
193	"	Ricker & White.....	Architects' commission.....	526 72
194	"	H. M. R. Construction Co.....	Name plates.....	10 00
195	"	A. E. Wuesteman.....	Medals and targets.....	40 80
196	"	Brickbuilder Publishing Co.....	Subscription to January, 1898.....	2 50
197	"	Schäffer & Budenberg.....	Calorimeter.....	45 00
198	"	W. L. Pillsbury.....	Expenses to trial, etc.....	14 59
199	"	S. W. Shattuck, business mgr.....	"	23 77
200	"	S. W. Shattuck, business mgr.....	Scholarships.....	562 50
201	"	Warner & Swasey.....	Observatory equipment.....	1,050 00
202	"	Geo. Carpenter & Co.....	Sails rented.....	20 00
203	"	Pittsburgh Plate Glass Co.....	Glass.....	35 30
204	"	Dickinson Cement Co.....	Cement.....	28 50
205	"	J. C. Sedgwick.....	Lumber.....	20 16
206	"	Geo. W. Parker & Son.....	Wire doors, etc.....	22 49
207	"	Chas. Howison.....	Work on drawings.....	10 05
208	"	Vic Beasley.....	Cleaning walls.....	35 00
209	"	Chas. T. Wilder.....	Blue prints.....	23 52

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
210	July 31	Office Specialty M'g Co. ....	Binding cases, etc. ....	\$6 00
211	"	Thos. Naughton. ....	Photographs. ....	9 50
212	"	Hubbard & Sons. ....	Hardware, etc. ....	9 36
213	"	A. C. McClurg & Co. ....	Painting repairs, etc. ....	14 13
214	"	Chas. A. Besore. ....	Lumber. ....	54 33
215	"	Champaign Supply Co. ....	Pipe fittings, etc. ....	17 17
216	"	Walker & Mullekin. ....	Frames, etc. ....	7 10
217	"	Ill. Soc. of Eng. and Surveyors. ....	Advertisement. ....	10 00
218	"	Petty & Sayers. ....	Tables. ....	20 00
219	"	E. Davenport. ....	Expenses. ....	18 34
220	"	Chicago Chronicle Co. ....	Advertising. ....	69 00
221	"	S. W. Shattuck, Business M'g'r	Freight. ....	99 91
222	"	"	Expressage. ....	57 46
223	"	"	Sundry items. ....	82 39
224	"	W. W. Lindley. ....	Postage. ....	58 00
225	"	Arthur W. Palmer. ....	Expenses. ....	10 13
226	Aug. 14	J. E. Armstrong. ....	"	10 00
227	"	F. M. McKay. ....	"	89 57
228	"	S. A. Bullard. ....	"	63 55
229	"	W. L. Pillsbury. ....	"	78 39
230	"	T. R. Leal. ....	Grading, hauling, etc. ....	69 18
231	"	R. W. Stark. ....	Salary, July, 1897. ....	50 00
232	"	Edward Bush. ....	Collecting samples. ....	3 25
233	"	Chas. T. Wilder. ....	Blue prints. ....	61 10
234	"	Sheldon Brick Co. ....	Brick and sand. ....	16 60
235	"	J. C. Sedgwick. ....	Expenses, etc. ....	9 36
236	"	W. W. Walls & Co. ....	Lumber. ....	10 10
237	"	Seth J. Temple. ....	Services as architect. ....	200 00
238	"	A. Swannell. ....	Glass, drugs, etc. ....	27 73
239	"	Hill Art Glass and Dec'r'tive Co	Shellac, finishing, etc. ....	741 52
240	"	McClellan & Price. ....	Contract painting, etc. ....	52 10
241	"	J. D. Green. ....	Roofing cornice, labor, etc. ....	275 52
242	"	Alexander Lumber Co. ....	Lime, plaster, etc. ....	4 10
243	"	J. M. Chase. ....	Painting. ....	140 00
244	"	<i>The Gazette</i> . ....	Printing. ....	33 35
245	"	Knowlton & Bennett. ....	Tracing paper, blanks, etc. ....	9 65
246	"	Mittendorf & Kiler. ....	Frames, chairs, etc. ....	13 95
247	"	<i>Chicago Record</i> . ....	Printing proposals. ....	33 60
248	"	<i>Chicago Times-Herald</i> . ....	Advertisement. ....	4 20
249	"	Chas. A. Besore. ....	Lumber. ....	197 10
250	"	P. E. Taintor. ....	Cement walks. ....	1,143 10
251	"	C. D. McLane. ....	Services as architect. ....	200 00
252	"	S. W. Shattuck, Business M'g'r	Taxes on lands. ....	1,450 86
253	"	E. G. Keith. ....	Services of clerk. ....	150 00
254	"	J. C. McFarland. ....	Extra on copper work. ....	8 50
255	"	Minnesota Sandstone Co. ....	Contract for cut stone. ....	5,157 50
256	"	J. C. McFarland. ....	" roofing. ....	716 90
257	"	Robinson & Burr. ....	" plumbing. ....	346 64
258	"	Peoria Steam Marble Works. ....	" marble work. ....	1,114 02
259	"	John Caretti & Co. ....	" mosaic work. ....	761 25
260	"	Twin City Electric Co. ....	" wiring. ....	159 60
261	"	Jas. H. Rice Co. ....	" glass. ....	288 75
262	"	J. A. Boland. ....	" plastering. ....	1,206 70
263	"	Chicago Arch'l Iron Works. ....	" ornamental iron. ....	1,348 75
264	"	Expanded Metal Fire Proof'g Co	" fire proofing. ....	1,219 62
265	"	Orr & Lockett Hardware Co. ....	" hardware. ....	732 70
266	"	H. M. Dickson Mfg. Co. ....	" mill work. ....	881 54
267	"	Hill Art Glass and Dec'r'tive Co	" painting. ....	664 58
268	"	Chas. H. Besly & Co. ....	Emery cloth. ....	1 58
269	"	Eimer & Amend. ....	Air pump, tubes, etc. ....	16 25
270	"	Library Bureau. ....	Oak cases and cards. ....	27 39
271	"	Jas. B. Clow & Sons. ....	Water pipe. ....	21 22
272	"	Orr & Lockett Hardware Co. ....	Locks, knobs, etc. ....	32 73
273	"	U. & C. Electric Street R'y Co.	Current and gas. ....	651 72
274	Aug. 20	T. Wilee Co. ....	Contract for flooring. ....	162 29
275	"	H. M. R. Construction Co. ....	" library building. ....	1,099 55
276	"	Wylie Miller. ....	Repairing slate roof. ....	204 52
277	"	Hill Art Glass and Dec'r'tive Co	Labor, oils, etc. ....	162 63
278	"	Vic Beasley. ....	Plastering, etc. ....	80 20
279	"	H. M. Dickson Mfg. Co. ....	Doors, locks, lumber. ....	68 27
280	"	<i>Champaign County Herald</i> . ....	Printing programs, etc. ....	103 40
281	"	<i>The Gazette</i> . ....	Printing circulars, etc. ....	267 75
282	"	Thos. Naughton. ....	Photographs. ....	19 00
283	"	Oldham Bros. ....	Metal polish. ....	1 50
284	"	Wm. Price Estate. ....	Painting roof, etc. ....	152 20
285	"	Crescent Pharmacy. ....	Clock, oil, etc. ....	9 50

## Warrants—Continued.

No	Date.	To whom.	For what.	Amount.	
	1897.				
286	Aug.	20	Champaign Supply Co.....	Pipe, fees, etc.....	\$33 62
287	"	"	McBeath & Park.....	Cleese cloth, bats.....	2 43
288	"	"	Geo. W. Parker & Son.....	Book case.....	28 65
2-9	"	"	Berkefeld Filter Co.....	Filters.....	4 00
290	"	"	Fuller & Fuller Co.....	Iodine, etc.....	16 19
291	"	"	Prentiss Tool and Supply Co..	Drill.....	550 00
292	"	"	Mary Turner Carriel.....	Expenses.....	92 53
293	"	"	T. R. Leal.....	Grading, hauling, etc.....	133 64
294	"	"	Isaac Fielding.....	Postage.....	20 00
295	"	"	W. W. Lindley.....	".....	20 00
296	"	"	S. W. Shattuck, Business Mgr.	Petty expenses.....	13 72
297	"	"	".....	Freight.....	205 00
298	"	"	".....	Expressage.....	56 20
299	"	"	".....	Pay roll of men, July, 1897.....	1,439 86
300	"	"	".....	Pay roll of students, July, 1897.....	298 93
301	Aug.	31	A. S. Draper.....	Salary, August, 1897.....	583 33
302	"	"	T. J. Burrill.....	".....	200 00
303	"	"	S. W. Shattuck.....	".....	166 66
304	"	"	N. C. Ricker.....	".....	191 66
305	"	"	Ira O. Baker.....	".....	183 33
306	"	"	S. A. Forbes.....	".....	83 33
307	"	"	C. W. Rolfe.....	".....	175 00
308	"	"	D. McIntosh.....	".....	50 00
309	"	"	A. N. Talbot.....	".....	175 00
310	"	"	A. W. Palmer.....	".....	175 00
311	"	"	F. F. Frederick.....	".....	158 33
312	"	"	S. W. Parr.....	".....	175 00
313	"	"	H. J. Barton.....	".....	166 66
314	"	"	Chas. M. Moss.....	".....	175 00
315	"	"	D. K. Dodge.....	".....	166 66
316	"	"	L. P. Breckenridge.....	".....	166 66
317	"	"	David Kinley.....	".....	187 50
318	"	"	Eugene Davenport.....	".....	91 66
319	"	"	Arnold Tompkins.....	".....	150 00
320	"	"	A. P. Carman.....	".....	187 50
321	"	"	George W. Myers.....	".....	145 83
322	"	"	H. E. Summers.....	".....	137 50
323	"	"	Edgar J. Townsend.....	".....	137 50
324	"	"	E. B. Greene.....	".....	141 66
325	"	"	James M. White.....	".....	125 00
326	"	"	Katharine Merrill.....	".....	108 33
327	"	"	Wm. O. Krohn.....	".....	150 00
328	"	"	Wm. H. VanDervoort.....	".....	137 50
329	"	"	W. D. Pence.....	".....	125 00
330	"	"	H. S. Grindley.....	".....	100 00
331	"	"	T. A. Clark.....	".....	125 00
332	"	"	B. V. Swenson.....	".....	100 00
333	"	"	A. H. Daniels.....	".....	100 00
334	"	"	Percy F. Bicknell.....	".....	129 16
335	"	"	Geo. D. Fairfield.....	".....	108 33
336	"	"	Chas. W. Tooke.....	".....	100 00
337	"	"	Walter H. Jones.....	".....	75 00
338	"	"	Henry H. Everett.....	".....	116 66
339	"	"	Fred A. Sager.....	".....	91 66
340	"	"	William Esty.....	".....	100 00
341	"	"	Lewis A. Rhoades.....	".....	125 00
342	"	"	Frank Smith.....	".....	100 00
343	"	"	C. D. McLane.....	".....	91 66
344	"	"	P. G. Holden.....	".....	50 00
345	"	"	J. E. McGilvery.....	".....	100 00
346	"	"	W. J. Fraser.....	".....	33 33
347	"	"	Joseph C. Blair.....	".....	41 66
348	"	"	Edward G. Howe.....	".....	150 00
349	"	"	W. L. Pillsbury.....	".....	158 33
350	"	"	Geo. W. Graham.....	".....	100 00
351	"	"	Lillie Heath.....	".....	60 00
352	"	"	Sue W. Ford.....	".....	50 00
353	"	"	L. A. Boice.....	".....	50 00
354	"	"	Wm. F. Marker.....	".....	50 00
355	"	"	Joe Morrow.....	".....	75 00
356	"	"	Albert R. Lee.....	".....	20 00
357	"	"	Richard Uttenweiler.....	".....	50 00
358	"	"	Henry J. East.....	".....	40 00
359	"	"	W. R. Hoffman.....	".....	37 00
360	"	"	J. J. Johnson.....	".....	32 00
361	"	"	L. G. Lathrop.....	".....	32 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
362	1897.			
363	Aug. 31	D. McIntosh.....	Salary, August, 1897.....	\$75 00
364	"	C. V. Millar.....	"	60 00
364	"	R. W. Stark.....	"	50 00
365	"	S. W. Shattuck.....	Part salary to June 30, 1897.....	50 00
366	"	L. P. Breckenridge.....	Salary 3 months, to September, 1897	62 50
367	"	B. F. Sturtevant Co.....	Final payment on heating contract.	1,357 00
368	"	Ashcroft Mfg. Co.....	Indicator springs.....	10 14
369	"	Yale & Towne M'f'g Co.....	Locks and keys.....	4 74
370	"	Eimer & Amend.....	Balance Tubing, etc.....	116 82
371	"	Bausch & Lomb Optical Co.....	Microscope lenses, etc.....	54 78
372	"	Richards & Co.....	Bottles, tubing, etc.....	35 26
373	"	Rochester Optical Co.....	Photographic supplies.....	77 22
374	"	Jones & Laughlin.....	Bolts and iron.....	20 31
375	"	Winslow Bros Co.....	Bronze tablets.....	335 00
376	"	John B. Bennett.....	Contract for tunnels.....	6,882 57
377	"	Putnam Machine Co.....	Lath.....	500 00
378	"	Crane Co.....	Pipe, tees, etc.....	175 30
379	"	Engineering News Pub. Co.....	Advertisement.....	6 88
380	"	A. P. Cunningham & Son.....	Thermometers.....	1 75
381	"	J. C. Vaughan.....	Grass seeds, plants, etc.....	19 43
382	"	Orr & Lockett Hardware Co.....	Hardware.....	8 04
383	"	Sheldon Brick Co.....	Sand.....	5 00
384	"	<i>Champaign Times</i> .....	Printing.....	8 75
385	"	Home Comfort Heat. & Plum. Co.....	Pipe.....	19 34
386	"	Union Mfg Co.....	Water, 3 months.....	125 00
387	"	E. Henry.....	Oils, etc.....	6 45
388	"	Hubbard & Sons.....	Sterilizers, nails, etc.....	19 60
389	"	G. E. Stechert.....	Books, etc.....	34 05
390	"	Mittendorf & Kiler.....	Picture frames.....	8 00
391	"	Watson Faulkner.....	Rubber bandages.....	3 75
392	"	Mosler Safe Co.....	Safe.....	42 50
393	"	T. H. Trevelt.....	Sandpaper, etc.....	2 08
394	"	Lawton & Co.....	Duplicator.....	6 37
395	"	Typewriter Emporium.....	Cabinet.....	11 50
396	"	Agricultural Experiment Stat'n.....	Ditching.....	2 38
397	"	Repair shop, Univ. of Ill.....	Labor and material.....	287 26
398	"	Repair shop, Univ. of Ill.....		1,043 17
399	"	Chem. Laboratory.....	Chemicals, etc.....	79 40
400	"	Mechanical department.....	Labor and material.....	355 27
401	Sept. 15	Richards & Co.....	Chemicals.....	709 16
402	"	<i>The Inter Ocean</i> .....	Advertisement.....	1 35
403	"	Tribune Co.....	"	3 30
404	"	Smalley Mfg Co.....	Cutter and threader.....	108 50
405	"	Crosby St'm Gage & Valve Co.....	Castings.....	4 80
406	"	Chas. T. Wilder.....	Blue prints.....	48 53
407	"	H. Swannell.....	Glass, putty, etc.....	9 56
408	"	W. W. Walls & Co.....	Lumber.....	17 21
409	"	Twin City Electric Co.....	Awnings, etc.....	45 29
410	"	Chas. A. Besore.....	Flooring, etc.....	108 83
411	"	Petty & Sayers.....	Sand.....	15 00
412	"	Wm. J. Bolmer.....	Apparatus.....	14 95
413	"	Fuller & Fuller Co.....	Soda.....	3 25
414	"	Champaign Supply Co.....	Nipples, pipes, etc.....	45 35
415	"	Maltby & Wallace Co.....	Pipe, tees, etc.....	38 11
416	"	D. H. Lloyd & Son.....	Ink.....	2 95
417	"	Jas. B. Clow & Son.....	Pipe.....	27 58
418	"	E. H. Sargent & Co.....	Tube.....	1 03
419	"	A. C. McClurg & Co.....	Stationery, etc.....	98 82
420	"	Chicago Carpet Co.....	Linoleum matting, etc.....	501 80
421	"	Brunswick Balke Collender Co.....	Chairs, desks, etc.....	1,271 75
422	"	Western Union Telegraph Co.....	Telegrams.....	3 68
423	"	O. S. Blakeslee.....	Platinum wire, etc.....	335 50
424	"	J. B. Colt & Co.....	Lantern, etc.....	237 60
425	"	V. W. Shuck.....	Level, etc.....	3 70
426	"	Library Bureau.....	Contract for book stacks.....	300 00
427	"		Contracts for brackets, floors, etc.....	2,750 00
428	"	Gresham & Lloyd.....	Contract for lighting fixtures.....	1,400 00
429	"	F. J. Foote.....	Work on batteries, etc.....	90 85
430	"	E. H. Renner & Bro.....	Work with team.....	10 50
431	"	J. C. Sedgwick.....	Ventilating Military Hall.....	64 00
432	"	Vic Beasley.....	Plastering.....	256 91
433	"	<i>Chicago Times Herald</i> .....	Advertisement.....	31 20
434	"	Chas. Mullendorf.....	Work.....	22 00
435	"	Smith Premier Typewriter Co.....	Typewriter and cabinet.....	138 50
436	"	Wm. Price Estate.....	Contract for paint'g & calcimining.....	789 27
437	"	A. F. Moore.....	Balance on horses.....	50 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
438	Sept. 15	Ricker & White	Final payment	\$475 33
439	"	Geo. W. Myers	Expenses	12 73
440	"	Walter H. Jones	"	15 60
441	"	T. R. Leal	Hauling and grading	78 42
442	"	Robinson & Burr	Contract for heating mains	1,450 00
443	"	Ohio Storage Battery Co	Battery cells	224 00
444	"	John B. Bennett	Contract for heating tunnels	910 49
445	"	Armour Institute of Technology	Books	400 00
446	"	LaFayette Lumber Mfg Co.	Locker cases	220 00
447	"	S. W. Shattuck, business m'gr	Expressage	43 2C
448	"	"	Freightage	216 06
449	"	"	Pay roll of students, August, 1897	394 72
450	"	"	Pay roll of men, August, 1897	1,778 47
451	Sept. 30	A. S. Draper	Salary, September, 1897	583 33
452	"	T. J. Burrill	"	200 00
453	"	S. W. Shattuck	"	166 66
454	"	N. C. Ricker	"	191 66
455	"	Ira O. Baker	"	187 50
456	"	S. A. Forbes	"	83 33
457	"	C. W. Rolfe	"	175 00
458	"	D. McIntosh	"	50 00
459	"	A. N. Talbot	"	175 00
460	"	A. W. Palmer	"	175 00
461	"	F. F. Frederick	"	158 33
462	"	S. W. Parr	"	175 00
463	"	H. J. Barton	"	175 00
464	"	Chas. M. Moss	"	175 00
465	"	D. K. Dodge	"	166 66
466	"	L. P. Breckenridge	"	187 50
467	"	David Kinley	"	187 50
468	"	Eugene Davenport	"	91 66
469	"	Arnold Tompkins	"	166 66
470	"	A. P. Carman	"	187 50
471	"	George W. Myers	"	150 00
472	"	Edgar J. Townsend	"	137 50
473	"	E. B. Greene	"	141 66
474	"	G. E. Gardner	"	166 66
475	"	C. C. Pickett	"	125 00
476	"	Katharine Sharp	"	166 66
477	"	Geo. T. Kemp	"	166 66
478	"	James M. White	"	133 33
479	"	L. A. Rhoades	"	141 66
480	"	H. H. Everett	"	133 33
481	"	W. H. Van Dervoort	"	137 50
482	"	W. D. Pence	"	133 33
483	"	Walter H. Jones	"	100 00
484	"	H. S. Grindley	"	108 33
485	"	T. A. Clark	"	133 33
486	"	H. S. Piatt	"	100 00
487	"	B. V. Swenson	"	108 33
488	"	A. H. Daniels	"	108 33
489	"	George D. Fairfield	"	108 33
490	"	Charles W. Tooke	"	108 33
491	"	Fred A. Sager	"	100 00
492	"	William Esty	"	108 33
493	"	Frank Smith	"	100 00
494	"	C. D. McLane	"	100 00
495	"	P. G. Holden	"	54 16
496	"	J. E. McGilvrey	"	108 33
497	"	S. J. Temple	"	100 00
498	"	J. D. Phillips	"	83 33
499	"	Violet D. Jayne	"	125 00
500	"	Mary L. Jones	"	100 00
501	"	Oscar Quick	"	80 00
502	"	Edward J. Lake	"	70 00
503	"	Ella H. Morrison	"	100 00
504	"	George A. Huff	"	120 00
505	"	W. J. Fraser	"	37 50
506	"	Carlton R. Rose	"	80 00
507	"	Joseph C. Blair	"	45 83
508	"	Margaret Mann	"	75 00
509	"	Alison Fernie	"	100 00
510	"	Agnes S Cook	"	70 00
511	"	H. C. Howland	"	80 00
512	"	C. H. Rowell	"	70 00
513	"	Geo. H. Meyer	"	70 00



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
514	1897. Sept. 30	W. H. Kavanaugh.....	Salary, September, 1896.....	80 00
515	"	John P. Hylan.....	" " " " " " " " " " " "	80 00
516	"	Alice Putnam.....	" " " " " " " " " " " "	80 00
517	"	A. C. Burnham.....	" " " " " " " " " " " "	90 00
518	"	C. F. Hottes.....	" " " " " " " " " " " "	70 00
519	"	W. C. Brenke.....	" " " " " " " " " " " "	75 00
520	"	Jessie Y. Fox.....	" " " " " " " " " " " "	30 00
521	"	G. D. Hubbard.....	" " " " " " " " " " " "	50 00
522	"	H. A. Webber.....	" " " " " " " " " " " "	50 00
523	"	C. V. Seastone.....	" " " " " " " " " " " "	50 00
524	"	E. B. Ketchum.....	" " " " " " " " " " " "	50 00
525	"	Jas. H. McKee.....	" " " " " " " " " " " "	50 00
526	"	H. V. Carpenter.....	" " " " " " " " " " " "	50 00
527	"	John L. Sammis.....	" " " " " " " " " " " "	50 00
528	"	M. B. Hammond.....	" " " " " " " " " " " "	50 00
529	"	C. B. Clark.....	" " " " " " " " " " " "	85 00
530	"	A. R. Curtiss.....	" " " " " " " " " " " "	85 00
531	"	Henry Jones.....	" " " " " " " " " " " "	60 00
532	"	J. H. Wilson.....	" " " " " " " " " " " "	60 00
533	"	D. H. Carnahan.....	" " " " " " " " " " " "	30 00
534	"	H. C. Hobart.....	" " " " " " " " " " " "	30 00
535	"	E. W. Poole.....	" " " " " " " " " " " "	30 00
536	"	F. W. Schacht.....	" " " " " " " " " " " "	30 00
537	"	A. E. Paul.....	" " " " " " " " " " " "	30 00
538	"	A. St. J. Williamson.....	" " " " " " " " " " " "	10 00
539	"	E. G. Howe.....	" " " " " " " " " " " "	150 00
540	"	Lillie A. Clendenin.....	" " " " " " " " " " " "	65 00
541	"	R. S. Douglass.....	" " " " " " " " " " " "	75 00
542	"	C. B. Randolph.....	" " " " " " " " " " " "	70 00
543	"	C. W. Alvord.....	" " " " " " " " " " " "	70 00
544	"	W. L. Pillsbury.....	" " " " " " " " " " " "	162 50
545	"	George W. Graham.....	" " " " " " " " " " " "	100 00
546	"	Lillie Heath.....	" " " " " " " " " " " "	75 00
547	"	Sue W. Ford.....	" " " " " " " " " " " "	55 00
548	"	L. A. Boice.....	" " " " " " " " " " " "	55 00
549	"	W. F. Marker.....	" " " " " " " " " " " "	55 00
550	"	Jennie M. Laffin.....	" " " " " " " " " " " "	45 00
551	"	S. W. Shattuck.....	Salary, 3 months to date.....	100 00
552	"	D. McIntosh.....	Salary, September, 1897.....	75 00
553	"	C. V. Millar.....	" " " " " " " " " " " "	75 00
554	"	R. W. Stark.....	" " " " " " " " " " " "	50 00
555	"	F. J. Foote.....	" " " " " " " " " " " "	75 00
556	"	Joe Morrow.....	" " " " " " " " " " " "	75 00
557	"	E. W. Justus.....	" " " " " " " " " " " "	50 00
558	"	M. T. Lindsey.....	" " " " " " " " " " " "	40 00
559	"	L. H. Allen.....	" " " " " " " " " " " "	40 00
560	"	Richard Uttenweiler.....	" " " " " " " " " " " "	60 00
561	"	Fred Atkinson.....	" " " " " " " " " " " "	35 00
562	"	C. B. Ewalt.....	" " " " " " " " " " " "	25 00
563	"	H. J. East.....	" " " " " " " " " " " "	40 00
564	"	Samuel Morse.....	" " " " " " " " " " " "	25 33
565	"	W. R. Hoffman.....	" " " " " " " " " " " "	37 00
566	"	L. G. Lathrop.....	" " " " " " " " " " " "	32 00
567	"	J. J. Johnson.....	" " " " " " " " " " " "	32 00
568	"	Elbert E. Pound.....	" " " " " " " " " " " "	32 00
569	"	A. S. Golden.....	" " " " " " " " " " " "	32 00
570	"	Allen McLaughlin.....	" " " " " " " " " " " "	32 00
571	"	Philip Schwehm.....	" " " " " " " " " " " "	27 00
572	"	J. Bishop & Co.....	Repairs on platinum ware.....	116 49
573	"	Arthur W. Palmer.....	Expenses.....	12 25
574	"	Fuller & Fuller Co.....	Acids, ammonia, etc.....	68 04
575	"	Cambridge Botanical Supply Co	Covers, papers, etc.....	65 85
576	"	Isaac S. Raymond.....	Expenses to board meeting.....	60 50
577	"	F. M. McKay.....	" " " " " " " " " " " "	22 58
578	"	S. A. Bullard.....	" " " " " " " " " " " "	26 15
579	"	J. E. Armstrong.....	" " " " " " " " " " " "	13 41
580	"	Alex. McLane.....	" " " " " " " " " " " "	131 04
581	"	Wilson, Moore & McIlvaine.....	Legal services.....	50 00
582	"	Isaac Fielding.....	Postage stamps.....	35 00
583	"	W. W. Lindley.....	" " " " " " " " " " " "	50 00
584	"	G. E. Stechert.....	Books.....	60 88
585	"	American Association for the Advancement of Science.....	Subscription.....	1 29
586	"	Goodsell Observatory of Carle- ton College.....	" " " " " " " " " " " "	3 20
587	"	A. C. McClurg & Co.....	Books.....	215 67

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
588	Sept. 30	Twin City Electric Co.....	Gas fixtures.....	\$10 27
589	"	E. Henry.....	Supplies, etc.....	32 35
590	"	The Gazette.....	Printing pamphlets, etc.....	17 90
591	"	Champaign Supply Co.....	Pipe supplies, etc.....	22 01
592	"	G. W. Yates.....	Cloth.....	1 19
593	"	C. & U. Phoenix Telephone Co.	Services to December 15, 1897.....	49 50
594	"	D. E. Harris & Co.....	Services.....	23 00
595	"	W. A. Olmsted Scientific Co.....	Sonometer, coil, etc.....	51 77
596	"	H. P. Harris.....	Mimeograph work.....	10 15
597	"	Empire Steam Laundry.....	Laundry work.....	6 90
598	"	Elmer & Amend.....	Rubber tubing, chemicals, etc.....	86 01
599	"	Baker & Adamson Chemical Co	Acids and filters.....	15 92
600	"	Richards & Co.....	Chemicals.....	374 92
601	"	Eugene Davenport.....	Expenses.....	8 22
602	"	Katharine L. Sharp.....		15 32
603	"	Gere & Philbrick.....	Examination of title.....	12 50
604	"	Lyon & Healy.....	Music stand, etc.....	7 73
605	"	Clayton F. Summy Co.....	Tuning pianos.....	18 00
606	"	Richards & Co.....	Bottles, tubes, etc.....	22 83
607	"	John B. Bennett.....	Cement tops for tables, etc.....	11 00
608	"	Henry Trevett.....	Hardware.....	106 85
609	"	C. N. Clark & Co.....	Labor.....	4 50
610	"	Standard Oil Co.....	Oil.....	10 50
611	"	Chas. A. Besore.....	Lumber.....	359 61
612	"	Hubbard & Sons.....	Hardware, plumbing, etc.....	168 11
613	"	Sheldon Brick Co.....	Sand.....	1 60
614	"	Wm. Price estate.....	Tar oil, etc.....	15 33
615	"	Robinson & Burr.....	Pipe fittings, etc.....	118 70
616	"	R. S. Wilber.....	Drayage.....	65 50
617	"	J. C. Sedgwick.....	Labor.....	20 80
618	"	Mittendorf & Kiler.....	Picture frames.....	15 00
619	"	Champaign Cabinet Co.....	Book case.....	19 50
620	"	H. Swannell.....	Toilet paper, supplies, etc.....	75 30
621	"	Petty & Sayers.....	Oak.....	1 00
622	"	Cunningham Bros.....	Plates, etc.....	9 90
623	"	Wallace Supply Co.....	Radiators.....	82 32
624	"	Walker & Mulliken.....	Chairs.....	27 75
625	"	Chemical Laboratory.....	Chemicals, etc.....	22 81
626	"	Lord & Burnham Co.....	Lights of glass.....	25 54
627	"	T. H. Castor & Co.....	Encyclopedia.....	1 64
628	"	Whitall, Tatum & Co.....	Bottles.....	3 62
629	"	E. Davenport & Co.....	Paper cloth, etc.....	16 79
630	"	Frank W. Dorr.....	Specimens of earthworms.....	4 00
631	"	Carl Fischer.....	Music.....	7 70
632	"	J. Church Co.....	Sheet music.....	23 26
633	"	Yale & Towne Mfg Co.....	Padlocks, keys, etc.....	22 96
634	"	Lawton & Co.....	Duplicators and refilling.....	15 74
635	"	Geo. E. Marshall & Co.....	Record books, etc.....	5 75
636	"	Alex. Nielsen.....	Specimens.....	2 50
637	"	Montgomery Ward & Co.....	Plates.....	3 60
638	"	Chas. H. Besly & Co.....	Steel wire, rods, etc.....	19 56
639	"	Eugene Arnstein.....	Enamels.....	3 73
640	"	E. G. Smith.....	Hook and gauge.....	8 00
641	"	Francke & Schindler.....	Brass screws, etc.....	4 12
642	"	Gross & Delbridge Co.....	Chemicals, etc.....	21 95
643	"	J. B. Colt & Co.....	Objective.....	5 60
644	"	W. W. Walls & Co.....	Cement.....	7 35
645	"	H. M. Dickson Mfg Co.....	Lockers, etc.....	600 75
646	"	J. C. Vaughan.....	Seeds.....	6 55
647	"	E. T. Paul Music Co.....	Music.....	1 00
648	"	S. W. Shattuck, Business Mgr.	Expressage.....	42 30
649	"	"	Freightage.....	87 23
650	"	"	Sundry items.....	94 20
651	Oct. 4	Walsh & Wyeth.....	Contract steam pipe covering.....	1,399 20
652	"	Library Bureau.....	Tables, desks, etc.....	1,349 00
653	"	M. Yeager & Son.....	Contract for central heating plant.....	9,100 00
654	"	W. L. Pillsbury.....	Expenses to board meeting.....	10 84
655	"	McLane & Temple.....	as architects.....	52 15
656	"	Union Mfg Co.....	Water, 3 months, to January 1, 1898.....	125 00
657	"	U. & C. Gas and Electric Co.....	Gas to Sept. 24; motor to Oct. 1; electric lights to Sept. 28.....	487 08
658	"	G. R. Petty & Co.....	Drawing boards.....	33 00
659	"	Knowlton & Bennett.....	Fountain pens, etc.....	5 25
660	"	J. M. Chase.....	Varnishing, etc.....	1 45
661	"	Chester St. John.....	Collecting samples of water.....	1 75
662	"	V. W. Shuck.....	Nails.....	3 90

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
663	Oct. 4	F. S. Webster Co.....	Typewriter ribbons.....	\$2 00
664	"	Miller & Leming.....	Stakes.....	7 00
665	"	L. V. Manspeaker.....	Fish.....	1 85
666	"	Henry J. Green.....	Barometer, etc.....	12 70
667	"	Twin City Electric Co.....	Zinc, etc.....	2 00
668	"	Champaign County Ptg. Co.....	Printing blanks, etc.....	190 75
669	"	Crane Co.....	Pipe and fittings.....	89 58
670	"	James H. Rice Co.....	Lights of glass.....	9 00
671	"	Orr & Lockett Hardware Co.....	Lockers for warerooms, etc.....	369 63
672	"	Public School Pub. Co.....	Advertisement to October 31, 1897.....	12 50
673	"	<i>School News &amp; Prac. Educator</i>	July, Sept. and Oct.....	12 48
674	"	National Tube Works.....	Gate valves, etc.....	25 25
675	"	A. F. Cunningham & Son.....	Tracing cloth, etc.....	13 80
676	"	Chicago Carpet Co.....	Rugs, cushions, etc.....	181 03
677	"	H. E. Scholle & Co.....	Wardrobe and table.....	18 00
678	"	Bausch & Lomb Optical Co.....	Syringes, scissors, etc.....	14 46
679	"	Warner & Swasey.....	Repairs on micrometer.....	5 50
680	"	Machinist Supply Co.....	Brass rod, etc.....	8 89
681	"	Robinson & Burr.....	Weights, etc.....	17 21
682	"	J. B. Colt & Co.....	Carbons.....	3 00
683	"	A. C. McClurg & Co.....	Stationery and supplies.....	208 55
684	"	Gustav E. Stechert.....	Books.....	141 71
685	"	Brunswick-Balke-Collender Co.....	Leather cushions, chairs, tables.....	319 25
686	"	J. E. McGilvrey.....	Expenses.....	22 98
687	"	S. W. Shattuck.....	Petty expenses, etc.....	126 44
688	"	T. I. Mairs.....	Expenses.....	31 17
689	"	W. J. Fraser.....		31 68
690	"	T. R. Leal.....	Hauling, grading, etc.....	59 42
691	"	J. T. Wolcott.....	Work.....	21 40
692	"	Chas. A. Besore.....	Lumber, etc.....	93 72
693	"	T. H. Trevett.....	Hardware.....	12 40
694	"	Champaign Supply Co.....	Pipe, bushings, etc.....	36 17
695	"	C. H. Baddeley.....	Plates, etc.....	10 90
696	"	Thomas Naughton.....	Photos.....	1 70
697	"	Library Bureau.....	Library supplies, etc.....	367 07
698	"	Miller & Leming.....	Seed boxes.....	8 00
699	"	R. R. Bowker.....	Supplies.....	25 00
700	"	Alexander Lumber Co.....	Expenses.....	5 95
701	"	J. E. McGilvrey.....		27 19
702	"	Lucy L. Flower.....	to board meeting.....	63 19
703	"	E. G. Keith.....	Services of clerk 3 months.....	150 00
704	"	Northern Pacific R'y Co.....	Blue prints of railroad construction.....	15 40
705	"	Thomas W. Gleeson.....	Spectrometer.....	74 50
706	"	Ft. Wayne Electric Corporation.....	Motor.....	75 00
707	"	Standard Oil Co.....	Cylinder oil.....	10 64
708	"	A. H. Barber & Co.....	Swing churn, fittings, etc.....	10 20
709	"	Miller Harness Co.....	Wagon, etc.....	46 75
710	"	Champaign Supply Co.....	Belt.....	11 86
711	"	F. Cormack.....	Museum supplies.....	10 00
712	"	Central Union Tel. Co.....	Use of telephones, etc.....	9 35
713	"	Bausch & Lomb Optical Co.....	Microscopes, etc.....	342 33
714	"	Crane Co.....	Valves, packing, etc.....	30 32
715	"	<i>Champaign County Herald</i> .....	Printing board proceedings, etc.....	119 52
716	"	West Pub. Co.....	Law books.....	182 00
717	"	Fuller & Fuller Co.....	Glue, etc.....	8 39
718	"	<i>The Illini</i> .....	Subscription.....	125 00
719	"	J. E. Armstrong.....	Expenses to board meeting.....	30 91
720	"	B. V. Swenson.....	Materials, etc.....	18 00
721	"	S. W. Shattuck, business mgr.....	Sundry items.....	61 84
722	"	"	Expressage.....	59 05
723	"	"	Freightage.....	87 74
724	"	"	Pay-rolls of men, September, 1897.....	1,331 64
725	"	"	students.....	378 11
726	Oct. 30	A. S. Draper.....	Salary, October, 1897.....	583 33
727	"	T. J. Burrill.....	"	200 00
728	"	S. W. Shattuck.....	"	166 66
729	"	N. C. Ricker.....	"	191 66
730	"	I. O. Baker.....	"	187 50
731	"	S. A. Forbes.....	"	83 33
732	"	C. W. Rolfe.....	"	175 00
733	"	D. McIntosh.....	"	50 00
734	"	A. N. Talbot.....	"	175 00
735	"	A. W. Palmer.....	"	175 00
736	"	F. F. Frederick.....	"	158 33
737	"	S. W. Parr.....	"	175 00
738	"	H. J. Barton.....	"	175 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
739	1897.	C. M. Moss.....	Salary, October, 1897	\$175 00
740	Oct.,	D. K. Dodge.....	"	166 66
741	"	L. P. Breckenridge ..	"	187 50
742	"	D. Kinley.....	"	187 50
743	"	E. Davenport.....	"	91 66
744	"	A. Tompkins.....	"	166 66
745	"	A. P. Carman.....	"	187 50
746	"	W. H. Jones.....	"	100 00
747	"	E. B. Greene.....	"	141 66
748	"	G. E. Gehler.....	"	166 66
749	"	C. C. Pickett.....	"	125 00
750	"	Katharine L. Sharp....	"	166 66
751	"	G. T. Kemp.....	"	166 66
752	"	Geo. W. Myers.....	"	100 00
753	"	E. J. Townsend.....	"	130 00
754	"	J. M. White.....	"	137 50
755	"	L. A. Rhoades.....	"	133 33
756	"	H. H. Everett.....	"	133 33
757	"	W. H. VanDervoort....	"	137 50
758	"	W. D. Pence.....	"	133 33
759	"	H. S. Grindley.....	"	108 33
760	"	T. A. Clark.....	"	133 33
761	"	H. S. Piatt.....	"	133 33
762	"	B. V. Swenson.....	"	100 00
763	"	A. H. Daniels.....	"	108 33
764	"	Geo. D. Fairfield.....	"	108 33
765	"	C. W. Tooke.....	"	100 00
766	"	F. A. Sager.....	"	108 33
767	"	Wm. Esty.....	"	100 00
768	"	Frank Smith.....	"	100 00
769	"	C. D. McLane.....	"	100 00
770	"	P. G. Holden.....	"	100 00
771	"	J. E. McGilvrey.....	"	54 16
772	"	S. J. Temple.....	"	108 33
773	"	J. D. Phillips.....	"	83 33
774	"	Violet D. Jayne.....	"	83 33
775	"	Mary L. Jones.....	"	100 00
776	"	Oscar Quick.....	"	125 00
777	"	E. J. Lake.....	"	80 00
778	"	Ella H. Morrison.....	"	70 00
779	"	Geo. A. Huff.....	"	130 00
780	"	W. J. Fraser.....	"	80 00
781	"	C. R. Rose.....	"	80 00
782	"	J. C. Blair.....	"	45 83
783	"	Margaret Mann.....	"	75 00
784	"	Allison M. Fernie.....	"	100 00
785	"	Agnes S. Cook.....	"	70 00
786	"	A. C. Howland.....	"	80 00
787	"	Chester H. Rowell.....	"	70 00
788	"	H. Meyer.....	"	70 00
789	"	W. H. Kavanaugh.....	"	80 00
790	"	J. P. Hylan.....	"	80 00
791	"	Alice Furnam.....	"	80 00
792	"	A. C. Burnham.....	"	70 00
793	"	Chas. F. Hoffes.....	"	70 00
794	"	W. C. Brenke.....	"	75 00
795	"	Jessie Y. Fox.....	"	30 00
796	"	J. H. McKee.....	"	50 00
797	"	G. D. Hubbard.....	"	50 00
798	"	H. A. Webber.....	"	50 00
799	"	C. V. Seastone.....	"	50 00
800	"	R. B. Ketchum.....	"	50 00
801	"	H. V. Carpenter.....	"	50 00
802	"	J. L. Hammis.....	"	50 00
803	"	M. B. Hammond.....	"	50 00
804	"	Anna Fossler.....	"	50 00
805	"	C. B. Clark.....	"	50 00
806	"	A. R. Curtiss.....	"	85 00
807	"	Henry Jones.....	"	85 00
808	"	J. H. Wilson.....	"	60 00
809	"	D. H. Carnahan.....	"	60 00
810	"	A. C. Hobart.....	"	30 00
811	"	E. W. Poole.....	"	30 00
812	"	F. W. Schacht.....	"	30 00
813	"	A. E. Paul.....	"	30 00
814	"	Don Sweeney.....	"	30 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
815	Oct. 30	A. St. John Williamson.....	Salary, October, 1897.....	\$10 00
816	"	E. G. Howe.....	" " " " " " " " " "	150 00
817	"	Lillie A. Clendenin.....	" " " " " " " " " "	65 00
818	"	R. S. Douglass.....	" " " " " " " " " "	75 00
819	"	C. B. Randolph.....	" " " " " " " " " "	70 00
820	"	C. W. Alvord.....	" " " " " " " " " "	70 00
821	"	W. L. Pillsbury.....	" " " " " " " " " "	162 50
822	"	Geo. W. Graham.....	Services, October, 1897.....	100 00
823	"	Lillie Heath.....	" " " " " " " " " "	75 00
824	"	Sue W. Ford.....	" " " " " " " " " "	55 00
825	"	L. A. Boice.....	" " " " " " " " " "	55 00
826	"	W. F. Marker.....	" " " " " " " " " "	55 00
827	"	Jennie M. Ladin.....	" " " " " " " " " "	45 00
828	"	Georgia E. Hopper.....	" " " " " " " " " "	30 00
829	"	Adelaide M. Chase.....	" " " " " " " " " "	25 00
830	"	Leo C. Smith.....	" " " " " " " " " "	20 00
831	"	C. V. Millar.....	Water survey, October, 1897.....	75 00
832	"	R. W. Stark.....	" " " " " " " " " "	50 00
833	"	F. J. Foote.....	Services, October, 1897.....	75 00
834	"	Joe Morrow.....	" " " " " " " " " "	75 00
835	"	F. W. Justis.....	" " " " " " " " " "	50 00
836	"	W. H. Zimmerman.....	" " " " " " " " " "	50 00
837	"	M. T. Lindsey.....	" " " " " " " " " "	40 00
838	"	I. H. Allen.....	" " " " " " " " " "	40 00
839	"	Richard Uttenweiler.....	" " " " " " " " " "	60 00
840	"	Fred Atkinson.....	" " " " " " " " " "	35 00
841	"	Chas. B. Ewalt.....	" " " " " " " " " "	25 00
842	"	D. McIntosh.....	Salary, October, 1897.....	75 00
843	"	Henry J. East.....	" " " " " " " " " "	40 00
844	"	Samuel Morse.....	" " " " " " " " " "	40 00
845	"	W. R. Hoffman.....	" " " " " " " " " "	37 00
846	"	L. G. Lathrop.....	" " " " " " " " " "	32 00
847	"	J. J. Johnson.....	" " " " " " " " " "	32 00
848	"	E. E. Pound.....	" " " " " " " " " "	32 00
849	"	A. S. Golden.....	" " " " " " " " " "	32 00
850	"	Allen McLaughlin.....	" " " " " " " " " "	32 00
851	"	Philip Schwehm.....	" " " " " " " " " "	27 00
852	"	E. A. Nelson.....	" " " " " " " " " "	32 00
853	"	C. C. Adams.....	Collecting class material.....	25 00
854	"	Watson Faulkner.....	Alcohol.....	5 15
855	"	Warner & Swasey.....	Collimater, etc.....	150 00
856	"	James C. Biddle.....	Chronograph, etc.....	495 40
857	"	G. W. Sheldon & Co.....	Ocean freight, etc.....	25 20
858	"	John Gayner.....	Fruit jar.....	18 00
859	"	R. B. Bowker.....	Subscription.....	3 00
860	"	F. B. Stevens.....	Plumbago, tools, etc.....	9 76
861	"	Narragansett Machine Co.....	Scales, etc.....	122 20
862	"	Wm. J. Bohm.....	Glass cylinder.....	6 75
863	"	Chas. A. Schieren & Co.....	Belt.....	14 24
864	"	D. Appleton & Co.....	Books.....	6 65
865	"	Geo. W. Southwick & Co.....	Wire belt lacing.....	8 15
866	"	Maltby & Wallace Co.....	Pine and cherry lumber.....	60 40
867	"	Boston Musical Instrument Mfg.....	Horn.....	43 20
868	"	Chas. H. Besly & Co.....	Files, rods, etc.....	23 98
869	"	Baker & Adamson Chemical Co.....	Nitric and muriatic acids.....	68 90
870	"	J. C. Vaughn.....	Seeds.....	18 74
871	"	Odin Coal Co.....	Coal.....	321 10
872	"	Jones & Laughlins.....	Iron.....	15 20
873	"	Alexander Lumber Co.....	Lumber.....	26 79
874	"	L. P. Breckenridge.....	Services as engineer.....	400 00
875	"	E. B. Greene.....	Books.....	13 00
876	"	Geo. E. Marshall & Co.....	Index Book.....	1 25
877	"	Yale & Towne Manufact'ng Co.....	Refitting keys, etc.....	3 55
878	"	Walker & Mulliken.....	Picture frames.....	6 00
879	"	Sweet, Wallach & Co.....	Photograph supplies.....	10 94
880	"	Eimer & Amend.....	Scales, etc.....	12 87
881	"	G. Cramer Dry Plate Works.....	Plates.....	13 04
882	"	Kariher Grocery Co.....	Jars, etc.....	43 06
883	"	Norton Emery Wheel Co.....	Emery wheels.....	16 40
884	"	Cleveland Twist Drill Co.....	Drills.....	10 10
885	"	Allerton, Clarke & Co.....	Files, etc.....	12 92
886	"	Henry E. Worthington.....	Plunger, ring, etc.....	2 75
887	"	Twin City Electric Co.....	Shades, etc.....	16 20
888	"	Westcott Chuck Co.....	Chucks.....	19 00
889	"	Riehle Bros. Testing Mach. Co.....	Gravity apparatus.....	11 00
890	"	Electric Appliance Co.....	Wire.....	49 55

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
891	Oct. 30	Burrows Bros. Company.....	Books.....	\$28 00
892	"	Knowlton & Bennett.....	Tracing cloth, etc.....	6 35
893	"	Charles A. Bescre.....	Lumber.....	94 98
894	"	<i>The Gazette</i> .....	Printing and binding.....	77 40
895	"	D. H. Lloyde & Son.....	Note covers, etc.....	21 94
896	"	Library Bureau.....	Extra stairway, stacks, etc.....	442 04
897	"	Orr & Lockett Hardware Co.....	Sash, sockets, etc.....	9 05
898	"	Robinson & Burr.....	Fittings, etc.....	103 21
899	"	Mittendorf & Kiler.....	Wardrobe, baskets, etc.....	46 80
900	"	J. E. McGilvrey.....	Expenses visiting schools.....	43 73
901	Nov. 4	Edward Gleason.....	Final payment as sub-contractor.....	4,850 00
902	"	H. M. R. Construction Co.....	on contract.....	650 00
903	"	Library Bureau.....	Contract book stacks, etc.....	250 00
904	"	John B. Bennett.....	Final payment on tunnels, etc.....	80 10
905	"	Schipper & Block Carpet Co.....	Contract for window shades.....	198 87
906	"	T. R. Leal.....	Cutting trees, hauling, etc.....	115 40
907	"	Walsh & Henck.....	Contract for plumbing in gymnas'm	100 00
908	"	E. Barr.....	conservatory.....	241 10
909	"	A. P. Carman.....	Expenses.....	10 76
910	"	M. Yeager & Son.....	Contract for heating plant.....	9,750 00
911	"	John W. Stipes.....	Street paving.....	1,800 00
912	Nov. 15	S. A. Bullard.....	Expenses.....	25 10
913	"	Yale & Towne Manufacturing Co.....	Keys.....	6 54
914	"	Walch & Wyeth.....	Pipe coverings.....	4 08
915	"	T. R. Leal.....	Hauling, moving, etc.....	42 12
916	"	Sangamon Coal Co.....	Coal.....	130 00
917	"	Twin City Electric Co.....	Labor and material on transformers	27 55
918	"	Urbana & Champaign Elect. Lt. Ry. Co.....	Cedar poles, etc.....	20 06
919	"	M. C. Lilley & Co.....	Bugle.....	5 00
920	"	Charles H. Besly & Co.....	Steel gauges.....	2 85
921	"	Eugene Dietzgen Co.....	Paper cloth.....	11 76
922	"	Fuller & Fuller Co.....	Corks, etc.....	23 95
923	"	Price's Pharmacy.....	Sulphur, etc.....	1 10
924	"	Callaghan & Co.....	Law books.....	2,532 25
925	"	Crane Company.....	Bushings, nipples, etc.....	52 97
926	"	Chas. A. Hart.....	Expenses.....	32 11
927	"	H. E. Summers.....	".....	56 96
928	"	E. Harlen Scott.....	".....	4 70
929	"	Eimer & Amend.....	Tubes, rubber stoppers.....	26 97
930	"	Prang Educational Co.....	Colored card-board.....	3 39
931	"	M. Lowenstern & Son.....	Oil cloth.....	1 60
932	"	Jones & Laughlins.....	Steel, bolts, etc.....	22 94
933	"	Flather & Company.....	Repairs on lathe.....	3 75
934	"	E. Henry.....	Gasoline, oils, etc.....	6 60
935	"	Wm. Miebach & Co.....	Copper, etc.....	1 15
936	"	<i>Champaign County Herald</i> .....	Paper.....	16 75
937	"	Wm. Price Estate.....	Shades and hanging.....	3 80
938	"	Thomas Naughton.....	Photographs.....	3 00
939	"	<i>The Gazette</i> .....	Printing.....	4 20
940	"	E. T. Paul Music Co.....	Music.....	1 18
941	"	Lyon & Healy.....	Band folios.....	4 15
942	"	Boston Musical Inst. Co.....	Horn.....	35 50
943	"	Carl Fisher.....	Music.....	8 59
944	"	Ira O. Baker.....	Expenses.....	3 81
945	"	American Architect & Build. News Co.....	Subscription.....	4 00
946	"	Kenyon News & Postal Sub.Co.....	Markers, etc.....	24 35
947	"	W. F. John Barnes Co.....	Emery tools, etc.....	65 00
948	"	National Brick Mfg Ass'n.....	Copy of publication.....	1 00
949	"	L. Manasse.....	Slides from photographs.....	11 75
950	"	National Sewer Pipe Co.....	Sewer pipe.....	33 61
951	"	Tinius Olsen & Co.....	Micrometer.....	75 00
952	"	Central Ill. Slate Roofing Co.....	Slating, labor, etc.....	45 95
953	"	J. D. Green.....	Moulding, etc.....	2 50
954	"	T. H. Trevett.....	Mantel, grate, etc.....	35 00
955	"	C. J. Sabin.....	Rent of tarpaulins and coal.....	17 50
956	"	Westinghouse Elect. & Mfg Co.....	Watt meter, etc.....	107 88
957	"	Charles T. Wilder.....	Blue prints.....	44 46
958	"	Geo. E. Martin.....	Fire screens.....	8 00
959	"	Charles A. Besore.....	Lumber, etc.....	160 48
960	"	James B. Clow & Son.....	Pipe and fittings.....	300 40
961	"	Robinson & Burr.....	Pipe, lead.....	7 20
962	"	Bausch & Lomb Optical Co.....	Microscopes, filters, etc.....	132 99
963	"	Office Specialty Mfg Co.....	Shannon files.....	6 67
964	"	Pittsburg Reduction Co.....	Aluminum wire.....	10 07

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
965	Nov. 15	J. Bishop & Co.....	Remodeling platinum ware.....	\$94 69
966	"	J. S. Ford Johnson & Co.....	Furniture.....	45 49
967	"	Gross & Delbridge Co.....	Stethoscope, bandages, etc.....	15 00
968	"	Narragansett Machine Co.....	Basket balls.....	18 00
969	"	Indiana Engineering Society ..	Advertisement.....	6 00
970	"	G. C. Willis.....	Calico, cheese cloth, etc.....	31 43
971	"	B. T. Batsford.....	Books.....	149 87
972	"	Lechtertier Barbe.....	Art studies.....	25 12
973	"	Geo. Rowney & Co.....	Studies.....	15 11
974	"	Bernh Liebisch.....	Books.....	10 85
975	"	Dr F. Krantz.....	Chemical apparatus.....	155 49
976	"	Newton A. Wells.....	Contract, decorating library.....	1,069 21
977	"	Gresham & Lloyd.....	lighting fixtures, etc.....	210 55
978	"	Carl Fischer.....	Music.....	12 80
979	"	Mittendorf & Kiler.....	Burlap, frames, etc.....	44 88
980	"	W. M. Hinton.....	Use of calf.....	2 00
981	"	<i>School News &amp; Pract. Educator</i>	Advertisement.....	12 48
982	"	Eugene Dietzgen & Co.....	Beam compass, etc.....	27 41
983	"	Armour Institute.....	Book and sorting tray.....	4 20
984	"	Western News Co.....	Subscription.....	3 27
985	"	George Allen.....	Ram.....	30 00
986	"	Brunswick Balke Collender Co.....	Oak desks and chairs.....	318 35
987	"	A. H. Andrews Co.....	Castings, etc.....	2 12
988	"	Geo. W. Hoffman.....	Metal polish, etc.....	2 00
989	"	Mandel Bros.....	Rugs.....	118 58
990	"	Marshall Field & Co.....	Pillows, etc.....	12 65
991	"	J. L. Kerr.....	Mason and materials furnished.....	101 28
992	"	J. C. Blair.....	Expense.....	19 30
993	"	E. H. Renner & Bro.....	Hauling coal, etc.....	107 92
994	"	W. W. Lindley.....	Postage stamps.....	30 00
995	"	Ozias Riley.....	.....	69 00
996	"	S. W. Shattuck, Business Mgr.....	Sundry items.....	73 55
997	"	"	Expressage.....	99 29
998	"	"	Freightage.....	123 37
999	"	"	Pay-rolls of men October, 1897.....	1,479 50
1000	"	"	students October, 1897.....	219 00
1001	Nov. 30	A. S. Draper.....	Salary, November, 1897.....	533 33
1002	"	T. J. Burrill.....	"	200 00
1003	"	S. W. Shattuck.....	"	166 66
1004	"	N. C. Ricker.....	"	191 66
1005	"	Ira O. Baker.....	"	187 50
1006	"	S. A. Forbes.....	"	83 33
1007	"	C. W. Rolfe.....	"	175 00
1008	"	D. McIntosh.....	"	50 00
1009	"	A. N. Talbot.....	"	175 00
1010	"	A. W. Palmer.....	"	175 00
1011	"	F. F. Frederick.....	"	158 33
1012	"	S. W. Parr.....	"	175 00
1013	"	H. J. Barton.....	"	175 00
1014	"	Chas. M. Moss.....	"	175 00
1015	"	D. K. Dodge.....	"	166 66
1016	"	L. P. Breckenridge.....	"	187 50
1017	"	David Kinley.....	"	187 50
1018	"	Eugene Davenport.....	"	91 66
1019	"	Arnold Tompkins.....	"	166 66
1020	"	A. P. Carman.....	"	187 50
1021	"	Walter H. Jones.....	"	100 00
1022	"	E. B. Greene.....	"	141 66
1023	"	G. E. Gardner.....	"	166 66
1024	"	C. C. Pickett.....	"	125 00
1025	"	Katharine L. Sharp.....	"	166 66
1026	"	Geo. T. Kemp.....	"	166 66
1027	"	Geo. W. Myers.....	"	150 00
1028	"	Edgar J. Townsend.....	"	137 50
1029	"	Jas. M. White.....	"	133 33
1030	"	Lewis A. Rhoades.....	"	141 66
1031	"	Henry H. Everett.....	"	133 33
1032	"	Wm. H. Van Dervoort.....	"	137 50
1033	"	W. D. Pence.....	"	133 30
1034	"	H. S. Grindley.....	"	108 33
1035	"	T. A. Clark.....	"	133 33
1036	"	H. S. Piatt.....	"	100 00
1037	"	B. V. Swensen.....	"	108 33
1038	"	A. H. Daniels.....	"	108 33
1039	"	Geo. D. Fairfield.....	"	108 33
1040	"	Chas. W. Tooke.....	"	108 33

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1041	Nov. 30	Fred A. Sager.....	Salary, November, 1897.....	100 00
1042	"	Wm. Esty.....	"	108 33
1043	"	Frank Smith.....	"	100 00
1044	"	C. D. McLane.....	"	100 00
1045	"	P. G. Holden.....	"	54 16
1046	"	J. E. McGilvrey.....	"	168 33
1047	"	S. J. Temple.....	"	100 00
1048	"	J. D. Phillips.....	"	83 33
1049	"	Violet D. Jayne.....	"	125 00
1050	"	Mary L. Jones.....	"	100 00
1051	"	Oscar Quick.....	"	80 00
1052	"	Edward J. Lake.....	"	70 00
1053	"	Ells H. Morrison.....	"	100 00
1054	"	Geo. A. Huff.....	"	120 00
1055	"	W. J. Fraser.....	"	37 50
1056	"	Carlton R. Rose.....	"	80 00
1057	"	Joseph C. Blair.....	"	45 83
1058	"	Margaret Mann.....	"	75 00
1059	"	Alison M. Fernie.....	"	100 00
1060	"	Agnes S. Cook.....	"	70 00
1061	"	A. C. Howland.....	"	80 00
1062	"	Chester A. Rowell.....	"	70 00
1063	"	G. H. Meyer.....	"	70 00
1064	"	W. H. Kavanaugh.....	"	80 00
1065	"	J. P. Hylan.....	"	80 00
1066	"	Alice Putnam.....	"	80 00
1067	"	A. C. Burnham.....	"	90 00
1068	"	Chas. F. Hottes.....	"	70 00
1069	"	W. C. Brenke.....	"	75 00
1070	"	Jessie Y. Fox.....	"	30 00
1071	"	Jas. H. McKee.....	"	50 00
1072	"	Geo. D. Hubbard.....	"	50 00
1073	"	H. A. Webber.....	"	50 00
1074	"	C. V. Seastone.....	"	50 00
1075	"	R. B. Ketchum.....	"	50 00
1076	"	H. V. Carpenter.....	"	50 00
1077	"	J. L. Sammis.....	"	50 00
1078	"	M. B. Hammond.....	"	50 00
1079	"	Anna Fossler.....	"	50 00
1080	"	C. B. Clark.....	"	85 00
1081	"	A. R. Curtiss.....	"	85 00
1082	"	Henry Jones.....	"	60 00
1083	"	J. H. Wilson.....	"	60 09
1084	"	D. H. Carnahan.....	"	30 00
1085	"	A. C. Hobart.....	"	30 00
1086	"	E. W. Poole.....	"	30 00
1087	"	F. W. Schacht.....	"	30 00
1088	"	E. E. Paul.....	"	30 00
1089	"	Don Sweeney.....	"	30 00
1090	"	A. St. J. Williamson.....	"	10 00
1091	"	Edward G. Howe.....	"	150 00
1092	"	Lillie A. Clendenin.....	"	65 00
1093	"	R. S. Douglass.....	"	75 08
1094	"	C. B. Randolph.....	"	70 00
1095	"	C. W. Alvord.....	"	70 00
1096	"	W. L. Pillsbury.....	"	162 50
1097	"	Geo. W. Graham.....	"	100 00
1098	"	Lillie Heath.....	"	75 00
1099	"	Sue W. Ford.....	"	55 00
1100	"	L. A. Boice.....	"	55 00
1101	"	W. F. Marker.....	"	55 00
1102	"	Jennie M. Laffin.....	"	45 00
1103	"	Georgia E. Hopper.....	"	30 00
1104	"	Adelaide M. Chase.....	"	25 00
1105	"	A. W. Palmer.....	3 months to date.....	25 00
1106	"	C. V. Millar.....	November, 1897.....	75 00
1107	"	R. W. Stark.....	"	50 00
1108	"	F. J. Foote.....	"	75 00
1109	"	Joe Morrow.....	"	75 00
1110	"	E. W. Justus.....	"	50 00
1111	"	W. H. Zimmerman.....	"	50 00
1112	"	M. T. Lindsey.....	"	40 00
1113	"	I. H. Allen.....	"	40 00
1114	"	R. Uttenweiler.....	"	60 00
1115	"	Fred Atkinson.....	"	35 00
1116	"	C. B. Ewalt.....	"	25 00
1117	"	D. McIntosh.....	"	75 00
1118	"	H. J. East.....	"	40 00
1119	"	Samuel Morse.....	"	40 00



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1120	Nov. 30	W. R. Hoffman.....	Salary, November, 1897.....	\$37 00
1121	"	L. G. Lathrop.....	" " " " " " " " " " " "	32 00
1122	"	J. J. Johnson.....	" " " " " " " " " " " "	32 00
1123	"	E. E. Pound.....	" " " " " " " " " " " "	32 00
1124	"	A. S. Golden.....	" " " " " " " " " " " "	32 00
1125	"	Allen McGlaughlin.....	" " " " " " " " " " " "	32 00
1126	"	E. A. Nelson.....	" " " " " " " " " " " "	32 00
1127	"	Philip Schwehm.....	" " " " " " " " " " " "	27 00
1128	"	E. Barr.....	Contract masonry foundation.....	564 00
1129	"	T. R. Leal.....	Grading and hauling.....	69 47
1130	"	C. C. Adams.....	Collecting class materials, etc.....	31 60
1131	"	W. A. Olmsted Scientific Co.....	Hydrometer, etc.....	6 82
1132	"	Gustav E. Stechert.....	Books.....	79 03
1133	"	B. V. Swenson.....	Indicator coil, etc.....	98 00
1134	"	Municipal Engineering Co.....	Subscription to Dec. 1, 1898.....	2 00
1135	"	<i>Engineering Record</i> .....	" " " " " " " " " " " " 31, 1898.....	5 00
1136	"	Engineering News Pub. Co.....	" " " " " " " " " " " "	4 00
1137	"	Robinson & Burr.....	Pipe supplies, etc.....	6 72
1138	"	Charles A. Besore.....	Lumber.....	72 23
1139	"	J. R. Greenhalch.....	Lamp.....	1 00
1140	"	J. A. Parker & Son.....	Muslin.....	1 88
1141	"	Crane & Co.....	Waste.....	7 56
1142	"	Detroit Twist Drill Co.....	Drills.....	18 86
1143	"	Medart Patent Pulley Co.....	Pulleys.....	6 80
1144	"	Hubbard & Sons.....	Plumbing and materials.....	13 60
1145	"	Smith & Webster.....	Slate base.....	27 80
1146	"	Twin City Electric Co.....	Batteries, sockets, etc.....	11 95
1147	"	Engineering News Pub. Co.....	Advertisement to Dec. 16, 1897.....	6 88
1148	"	C. Hunt.....	Paints, oils, etc.....	3 95
1149	"	Library Bureau.....	Catalogue slips, etc.....	43 25
1150	"	George Martin.....	Fire screens.....	8 00
1151	"	National Water Tube Boiler Co.....	Contract for boilers.....	1,624 00
1152	"	Lord & Burnham.....	" " " " " " " " " " " " superstructure.....	1,355 89
1153	"	Walsh & Heuck.....	" " " " " " " " " " " " plumbing.....	788 00
1154	"	A. S. Draper.....	Expenses, six months.....	72 56
1155	"	M. E. Jones.....	Cow and heifer.....	400 00
1156	"	Hubbard & Sons.....	Contract for iron pipe, valves, etc.....	923 48
1157	"	Carmichael & Andrews.....	" " " " " " " " " " " " bridge.....	500 00
1158	Dec. 20	J. E. McGilvrey.....	Expenses visiting schools.....	76 38
1159	"	W. L. Pillsbury.....	Expenses.....	15 70
1160	"	E. H. Renner & Bro.....	Hauling coal, etc.....	68 50
1161	"	W. W. Lindley.....	Postage stamps.....	60 00
1162	"	F. M. McKay.....	Expenses.....	43 08
1163	"	Alex McLane.....	" " " " " " " " " " " "	61 11
1164	"	S. A. Bullard.....	" " " " " " " " " " " "	12 25
1165	"	J. E. Armstrong.....	" " " " " " " " " " " "	13 16
1166	"	N. B. Morrison.....	" " " " " " " " " " " "	166 20
1167	"	Isaac S. Raymond.....	" " " " " " " " " " " "	26 70
1168	"	Thomas J. Smith.....	" " " " " " " " " " " "	13 50
1169	"	T. R. Leal.....	Hauling, filling ditch, etc.....	80 25
1170	"	S. W. Shattuck, business mgr.....	Taxes on Minnesota lands.....	287 95
1171	"	" " " " " " " " " " " "	Expressage.....	68 60
1172	"	" " " " " " " " " " " "	Freightage.....	325 04
1173	"	" " " " " " " " " " " "	Sundry items.....	188 46
1174	"	" " " " " " " " " " " "	Pay rolls of students, Nov'mb'r, 1897.....	221 02
1175	"	" " " " " " " " " " " "	Pay rolls of men, November, 1897.....	1,010 23
1176	Dec. 31	A. S. Draper.....	Salary for December, 1897.....	583 33
1177	"	T. J. Burrill.....	" " " " " " " " " " " "	200 00
1178	"	S. W. Shattuck.....	" " " " " " " " " " " "	166 66
1179	"	N. C. Ricker.....	" " " " " " " " " " " "	191 66
1180	"	I. O. Baker.....	" " " " " " " " " " " "	187 50
1181	"	S. A. Forbes.....	" " " " " " " " " " " "	83 33
1182	"	C. W. Rolfe.....	" " " " " " " " " " " "	175 00
1183	"	D. McIntosh.....	" " " " " " " " " " " "	50 00
1184	"	A. N. Talbot.....	" " " " " " " " " " " "	175 09
1185	"	A. W. Palmer.....	" " " " " " " " " " " "	175 00
1186	"	F. F. Frederick.....	" " " " " " " " " " " "	158 33
1187	"	S. W. Parr.....	" " " " " " " " " " " "	175 00
1188	"	H. J. Barton.....	" " " " " " " " " " " "	175 00
1189	"	Chas. M. Moss.....	" " " " " " " " " " " "	175 00
1190	"	D. K. Dodge.....	" " " " " " " " " " " "	166 66
1191	"	L. P. Breckenridge.....	" " " " " " " " " " " "	187 50
1192	"	David Kinley.....	" " " " " " " " " " " "	187 50
1193	"	Eugene Davenport.....	" " " " " " " " " " " "	91 66
1194	"	Arnold Tompkins.....	" " " " " " " " " " " "	166 66
1195	"	A. P. Carman.....	" " " " " " " " " " " "	187 50
1196	"	W. H. Jones.....	" " " " " " " " " " " "	100 00
1197	"	E. B. Greene.....	" " " " " " " " " " " "	141 66

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1198	1897.			
1198	Dec. 31	G. E. Gardner .....	Salary, December, 1897 .....	\$166 66
1199	"	C. C. Pickett. ....	"	125 00
1200	"	Katharine L. Sharp .....	"	166 66
1201	"	George T. Kemp. ....	"	166 66
1202	"	Geo. W. Myers .....	"	150 00
1203	"	Edgar J. Townsend .....	"	137 50
1204	"	James M. White .....	"	133 33
1205	"	Lewis A. Rhoades .....	"	141 66
1206	"	H. H. Everett .....	"	133 33
1207	"	Wm. H. Van Dervoort .....	"	137 50
1208	"	W. D. Pence .....	"	133 33
1209	"	H. S. Grindley .....	"	108 33
1210	"	T. A. Clark .....	"	133 33
1211	"	H. S. Piatt .....	"	100 00
1212	"	B. V. Swenson .....	"	108 33
1213	"	A. H. Daniels .....	"	108 33
1214	"	Geo. D. Fairfield .....	"	108 33
1215	"	Chas. W. Tooke .....	"	108 33
1216	"	Fred A. Sager .....	"	100 00
1217	"	William Esty .....	"	108 33
1218	"	Frank Smith .....	"	100 00
1219	"	C. D. McLane .....	"	100 00
1220	"	P. G. Holden .....	"	54 16
1221	"	J. E. McGilvrey .....	"	108 33
1222	"	Seth J. Temple .....	"	100 00
1223	"	J. D. Phillips .....	"	83 33
1224	"	Violet D. Jayne .....	"	125 00
1225	"	Mary L. Jones .....	"	100 00
1226	"	Oscar Quick .....	"	80 00
1227	"	Edward J. Lake .....	"	70 00
1228	"	Ella H. Morrison .....	"	100 00
1229	"	Geo. A. Huff .....	"	120 00
1230	"	W. J. Fraser .....	"	37 50
1231	"	Carlton R. Rose .....	"	80 00
1332	"	Joseph C. Blair .....	"	45 83
1233	"	Margaret Mann .....	"	75 00
1234	"	Alison M. Fernie .....	"	100 00
1235	"	Agnes S. Cook .....	"	70 00
1236	"	A. C. Howland .....	"	80 00
1237	"	Chester H. Rowell .....	"	70 00
1238	"	George H. Meyer .....	"	70 00
1239	"	W. H. Kavanaugh .....	"	80 00
1240	"	J. P. Hylan .....	"	80 00
1241	"	Alice Putnam .....	"	80 00
1242	"	A. C. Burnham .....	"	90 00
1243	"	Chas. F. Hottes .....	"	70 00
1244	"	W. C. Brenke .....	"	75 00
1245	"	Jessie Y. Fox .....	"	30 00
1246	"	Jas. H. McKee .....	"	50 00
1247	"	Geo. D. Hubbard .....	"	50 00
1248	"	H. A. Webber .....	"	50 00
1249	"	C. V. Seastone .....	"	50 00
1250	"	R. B. Ketchum .....	"	50 00
1251	"	H. V. Carpenter .....	"	50 00
1252	"	J. L. Sammis .....	"	50 00
1253	"	M. B. Hammond .....	"	50 00
1254	"	Anna Fossler .....	"	50 00
1255	"	C. B. Clark .....	"	85 00
1256	"	A. R. Curtiss .....	"	85 00
1257	"	Henry Jones .....	"	60 00
1258	"	J. H. Wilson .....	"	60 00
1259	"	D. H. Carnahan .....	"	30 00
1260	"	A. C. Hobart .....	"	30 00
1261	"	E. W. Poole .....	"	30 00
1262	"	F. W. Schacht .....	"	30 00
1263	"	A. E. Paul .....	"	30 00
1264	"	Don Sweney .....	"	30 00
1265	"	A. St. J. Williamson .....	"	10 00
1266	"	Edward G. Howe .....	"	150 00
1267	"	Lillie A. Clendenin .....	"	65 00
1268	"	R. S. Douglass .....	"	75 00
1269	"	C. B. Randolph .....	"	70 00
1270	"	C. W. Alvord .....	"	70 00
1271	"	W. L. Pillsbury .....	"	162 50
1272	"	S. W. Shattuck .....	Salary, 3 months, to date .....	100 00
1273	"	Geo. W. Graham .....	Salary for services, December, 1897 .....	100 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1274	1897.			
	Dec.	31		
1274	Dec.	Lillie Heath	Salary for services, December, 1897	\$75 00
1275	"	Sue W. Ford	"	55 00
1276	"	L. A. Boice	"	55 00
1277	"	W. F. Marker	"	55 00
1278	"	Jennie M. Laßin	"	45 00
1279	"	Georgia E. Hopper	"	30 00
1280	"	Adelaide M. Chase	"	25 00
1281	"	F. J. Foote	"	75 00
1282	"	Joe Morrow	"	75 00
1283	"	E. W. Justus	"	50 00
1284	"	W. H. Zimmerman	"	50 00
1285	"	M. T. Lindsey	"	40 00
1286	"	I. H. Allen	"	40 00
1287	"	Richard Uttenweiler	"	60 00
1288	"	Fred Atkinson	"	35 00
1289	"	C. B. Ewalt	"	25 00
1290	"	Henry J. East	"	40 00
1291	"	W. R. Hoffman	"	37 00
1292	"	L. G. Lathrop	"	32 00
1293	"	J. J. Johnson	"	32 00
1294	"	E. E. Pond	"	32 00
1295	"	A. B. Golden	"	32 00
1296	"	Allen McGlaughlin	"	32 00
1297	"	E. A. Nelson	"	32 00
1298	"	Philip Schwelm	"	27 00
1299	"	D. McIntosh	"	75 00
1300	"	C. V. Millar	Salary for December, 1897	75 00
1301	"	R. W. Stark	Salary for services, December, 1897	50 00
1302	"	Chas. H. Mears & Co.	Lumber	200 84
1303	"	P. E. Taintor	Cement floor and walks	185 80
1304	"	Walcott, Webster Mfg. Co.	Shower apparatus	38 50
1305	"	R. R. Bowker	Publications	9 00
1306	"	<i>New York Tribune</i>	Subscription	10 00
1307	"	C. C. Gere	Clock	1 50
1308	"	Chesapeake & Ohio Co.	Coke, etc.	40 55
1309	"	Westinghouse Elec. & Mfg. Co.	Circuit breaker	22 00
1310	"	E. Dietzgen Co.	Instrument and rubber stamp	6 67
1311	"	Keuffel & Esser Co.	Repairs on tape	10 00
1312	"	Toledo Bridge Co.	Blue prints	10 00
1313	"	John A. Bashear	Grating and prisms, etc.	96 00
1314	"	W. J. Keep	Testing apparatus	200 00
1315	"	Lydia Hart	Work on charts	27 30
1316	"	Richards & Co.	Tubes, bottles, etc.	14 85
1317	"	Herring, Hall, Marvin Co.	Coin safe	45 00
1318	"	Sheldon Brick Co.	Labor	5 00
1319	"	J. R. Wood	Fire brick	31 00
1320	"	S. S. White Dental Mfg. Co.	Cylinder and oxygen	36 40
1321	"	A. C. McClurg & Co.	Books	329 02
1322	"	Jones & Laughlins	Channel beams	45 98
1323	"	L. P. Breckenridge	Expenses	23 75
1324	"	Champaign Supply Co.	Sewer tile, etc.	12 04
1325	"	<i>The Illini</i>	Subscription, etc.	145 00
1326	1898.			
	Jan.	7		
1326	Jan.	A. Selicoorty	Old iron	1 81
1327	"	Electric Appliance Co.	Wire tape, etc.	18 63
1328	"	Wm. J. Bohm	Glass tube	1 25
1329	"	James B. Clow & Son	Pipes, tees, etc.	20 91
1330	"	C. & U. Phoenix Tel. Co.	Services to March 10, 1898	36 00
1331	"	Singbusch & Stoltey	Soap	1 00
1332	"	Miller & Leming	Stakes	5 00
1333	"	Sangamon Coal Co.	Coal	186 25
1334	"	Cunningham Bros.	Shellac	2 25
1335	"	Mrs. Frank Smith	Preparation of class material	4 75
1336	"	E. Henry	Janitor supplies	72 41
1337	"	Twin City Ice & Cold Str'ge Co.	Ice	5 03
1338	"	Champaign Co. Printing Co.	Printing	71 00
1339	"	J. E. McGilvrey	Expenses	21 56
1340	"	Acme Burnisher Co.	Gas burnishers	26 67
1341	"	T. H. Trevett	Vise, screws, wire, etc.	16 85
1342	"	P. F. Pettibone & Co.	Paper	2 50
1343	"	J. C. Vaughan	Seeds	17 86
1344	"	Sanders Publishing Co.	Advertisement	14 00
1345	"	<i>The Farmer's Voice</i>	"	7 00
1346	"	W. D. Hoard & Co.	"	7 56
1347	"	Prairie Farmer Publishing Co.	"	4 20
1348	"	Yale & Towne Mfg. Co.	Keys, locks, etc.	14 37

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
1349	Jan.	7 W. I. Saffell & Co.....	Couch, chairs, etc.....	\$34 00
1350	"	" Athletic Association.....	Photographs.....	3 00
1351	"	" C. H. Baddeley.....	Lamps, plates, cans, etc.....	45 50
1352	"	" John J. McVey.....	Book supports.....	9 00
1353	"	" Hubbard & Sons.....	Sewer pipe, etc.....	31 85
1354	"	" L. K. Howse & Co.....	Baskets, nuts.....	11 45
1355	"	" Montgomery Ward & Co.....	Scale beam.....	3 90
1356	"	" Scully Steel & Iron Co.....	Steel.....	1 54
1357	"	" Dennison Mfg. Co.....	Labels.....	2 13
1358	"	" C. H. Mills.....	Horse for experiment use.....	5 00
1359	"	" H. H. Everett.....	Expenses.....	13 26
1360	"	" Thomas Naughton.....	Photographs.....	1 00
1361	"	" Manning, Maxwell & Moore.....	Hoisting apparatus.....	31 00
1362	"	" F. E. Taintor.....	Cement driveway.....	63 00
1363	"	" Chas. A. Besore.....	Lumber, paper, etc.....	86 06
1364	"	" Union Tile Co.....	Tile.....	3 70
1365	"	" <i>Champaign County Herald</i> .....	Printing programs, etc.....	67 50
1366	"	" C. G. Armstrong.....	Services.....	150 00
1367	"	" D. H. Lloyd & Son.....	Music.....	14 07
1368	"	" Adler & Hornsteiner.....	Clarionets, horns, etc.....	132 30
1369	"	" Lyon & Healy.....	Music.....	74 99
1370	"	" College Review Stock Co.....	Advertisement.....	5 00
1371	"	" Chas. W. Groves.....	Educational Directory.....	5 00
1372	"	" Smith-Premier Typewriter Co.....	Ribbons.....	6 00
1373	"	" Richards & Co.....	Chemicals, tubes, etc.....	51 70
1374	"	" Machinists Supply Co.....	Sheet brass, etc.....	15 39
1375	"	" Maltby & Wallace Co.....	Drop hangers.....	3 30
1376	"	" W. F. & John Barnes Co.....	Pulley.....	2 00
1377	"	" Eimer & Amend.....	Tubing, chemicals, etc.....	24 34
1378	"	" E. H. Renner & Bro.....	Hauling coal.....	65 13
1379	"	" Burrows Bros. Co.....	Book.....	3 50
1380	"	" C. A. Cutter.....	Periodicals.....	22 50
1381	"	" A. C. McClurg & Co.....	Ink, paper, books, etc.....	287 49
1382	"	" Chas. T. Wilder.....	Blue prints.....	19 00
1383	"	" F. W. Devoe & C. T. Reynolds Co.....	Stencils.....	1 22
1384	"	" F. F. Frederick.....	Expenses.....	6 86
1385	"	" G. C. Willis.....	Crash, flannel, etc.....	31 91
1386	"	" T. R. Leal.....	Grading, hauling, etc.....	89 20
1387	"	" Kehler & Martini.....	Chemical apparatus, etc.....	1,292 40
1388	"	" Hartmann & Braun.....	Apparatus.....	498 14
1389	"	" A. B. Dick Co.....	Mimeograph ink.....	1 35
1390	"	" C. F. Bradley Co.....	Typewriter ribbons, etc.....	5 75
1391	"	" Western Bank Note & Eng. Co.....	Diplomas.....	125 00
1392	"	" Chas. H. Besly Co.....	Emery wheel, wire, solder, etc.....	9 48
1393	"	" Kariher Grocery Co.....	Matches, etc.....	1 98
1394	"	" W. W. Walls & Co.....	Cement, etc.....	2 60
1395	"	" Baker & Adamson Chemical Co.....	Filters, etc.....	5 36
1396	"	" Liquid Carbonic Acid Mfg. Co.....	Acid.....	3 00
1397	"	" O. L. Blakeslee.....	Repairs on manometer.....	2 50
1398	"	" W. S. Royal.....	Oil.....	1 10
1399	"	" <i>Champaign Times</i> .....	Printing reports.....	1 75
1400	"	" E. G. Howe.....	Expenses.....	8 41
1401	"	" H. W. Lynch.....	Coal.....	492 13
1402	"	" Consolidated Oil & Feed Co.....	Oil.....	4 00
1403	"	" Odin Coal Co.....	Coal.....	1,301 71
1404	"	" U. & C. R'y Gas & Electric Co.....	Motor to Jan. 1, '98; gas to Dec. 24, '97	929 73
1405	"	" Carmichael & Andrews.....	Contract for bridge.....	429 00
1406	"	" M. Lowenstern & Son.....	Blanket.....	5 00
1407	"	" Holland Linseed Oil Co.....	Oil.....	8 75
1408	"	" Chas. F. Witt.....	Repairs on apparatus.....	2 35
1409	"	" Walch & Wyeth.....	Pipe coverings.....	21 93
1410	"	" <i>School News &amp; Pract'l Educat'r</i> .....	Advertisement, 3 months.....	12 48
1411	"	" Callaghan & Co.....	Books.....	14 00
1412	"	" J. D. Green.....	Slate and tin roofing, etc.....	58 25
1413	"	" Orr & Lockett Hardware Co.....	Brackets, locks, etc.....	64 65
1414	"	" J. A. Wood.....	Brick.....	28 05
1415	"	" Crane Co.....	Pipe, tees, ells, etc.....	176 88
1416	"	" William Price estate.....	Frames, lead, oils, etc.....	16 05
1417	"	" Walsh & Heuck.....	Contract plumbing.....	36 70
1418	"	" E. Barr.....	Brick work.....	7 00
1419	"	" Robinson & Burr.....	Sewer pipe, etc.....	37 30
1420	"	" F. J. Dibble.....	Transmitter and reservoir gauge.....	75 00
1421	"	" Lunkenheimer Co.....	Valves.....	5 50
1422	"	" <i>The Gazette</i> .....	Printing.....	55 80
1423	"	" Henry Trevett.....	Hardware.....	96 19
1424	"	" Schultz Bridge & Iron Co.....	Blue prints of bridge.....	5 20

*Warrants*--Continued.

No.	Date.	To whom.	For what	Amount.
1425	Jan. 1898.	7 Library Bureau .....	Trays, cards, etc. ....	\$7 05
1426	"	Knowlton & Bennett .....	Index book .....	13 25
1427	"	Sweet & Wallach Co. ....	Negatives .....	2 38.
1428	"	Nevins Memorial .....	Copy of catalogue .....	5 00
1429	"	John Wiley & Sons .....	Books .....	4 26.
1430	"	Architectural Record .....	Subscription .....	2 00
1431	"	Chas. F. Hottes .....	Books .....	13 50
1432	"	<i>Astronomical Journal</i> .....	" .....	63 09.
1433	"	Kenyon News & Postal Sub. Co. ....	Subscription to periodicals for 1898.	311 10
1434	Jan. 1898.	15 Wm. Bond & Son .....	Chronometer .....	150 00
1435	"	Central Union Tel. Co .....	Rent of telephones .....	28 80.
1436	"	Leland Stanford Jr. University .....	Book .....	1 70.
1437	"	Patterson Bros .....	Brass pipe .....	18 61
1438	"	Wm. T. Comstock .....	Subscription for 1898 .....	4 00.
1439	"	Am. Arch. & Bldg. News Co .....	Subscription to December 31, 1898.	25 10
1440	"	Rogers & Manson .....	" .....	2 00
1441	"	Eimer & Amend .....	Flasks, wire, etc. ....	46 26.
1442	"	T. R. Leal .....	Hauling and grading, etc. ....	90 26.
1443	"	E. H. Renner & Bro .....	Hauling coal, etc .....	92 62
1444	"	W. W. Lindley .....	Postage stamps .....	45 00
1445	"	Ozias Riley .....	" .....	41 00
1446	"	S. W. Shattuck, Business Mgr. ....	Sundry items .....	84 08.
1447	"	" .....	Freightage .....	87 21
1448	"	" .....	Expressage .....	47 65
1449	"	" .....	Pay rolls of students, Dec., 1898	306 89
1450	"	" .....	men, January, 1898.	1,072 45
1451	Jan. 1898.	31 A. S. Draper .....	Salary for January, 1898.	583 33
1452	"	T. J. Burrill .....	" .....	200 00
1453	"	S. W. Shattuck .....	" .....	166 66
1454	"	N. Clifford Ricker .....	" .....	191 66
1455	"	Ira O. Baker .....	" .....	187 50
1456	"	S. A. Forbes .....	" .....	83 33
1457	"	C. W. Rolfe .....	" .....	175 00.
1458	"	D. McIntosh .....	" .....	50 00
1459	"	A. N. Talbot .....	" .....	175 00
1460	"	A. W. Palmer .....	" .....	175 00.
1461	"	F. F. Frederick .....	" .....	158 33
1462	"	S. W. Parr .....	" .....	175 00
1463	"	H. J. Barton .....	" .....	175 00
1464	"	C. M. Moss .....	" .....	175 00
1465	"	D. K. Dodge .....	" .....	166 66
1466	"	L. P. Breckenridge .....	" .....	187 50
1467	"	David Kinley .....	" .....	187 50
1468	"	Eugene Davenport .....	" .....	95 83
1469	"	Arnold Tompkins .....	" .....	166 66
1470	"	A. P. Carman .....	" .....	187 50
1471	"	W. H. Jones .....	" .....	100 00
1472	"	E. B. Greene .....	" .....	141 66
1473	"	G. E. Gardner .....	" .....	166 66
1474	"	C. C. Pickett .....	" .....	125 00
1475	"	Katharine L. Sharp .....	" .....	166 66
1476	"	Geo. T. Kemp .....	" .....	166 66
1477	"	G. W. Myers .....	" .....	150 00
1478	"	E. J. Townsend .....	" .....	137 50
1479	"	Jas. M. White .....	" .....	133 33
1480	"	Lewis A. Rhoades .....	" .....	141 66
1481	"	Henry H. Everett .....	" .....	133 33.
1482	"	W. H. VanDervoort .....	" .....	137 50
1483	"	W. D. Pence .....	" .....	133 33
1484	"	H. S. Grindley .....	" .....	108 33
1485	"	T. A. Clark .....	" .....	133 33
1486	"	H. S. Piatt .....	" .....	100 00
1487	"	B. V. Swenson .....	" .....	108 33
1488	"	A. H. Daniels .....	" .....	108 33
1489	"	G. D. Fairfield .....	" .....	108 33
1490	"	Chas. W. Tooke .....	" .....	108 33
1491	"	Fred A. Sager .....	" .....	100 00
1492	"	William Esty .....	" .....	108 33
1493	"	Frank Smith .....	" .....	100 00
1494	"	C. D. McLane .....	" .....	100 00
1495	"	P. G. Holden .....	" .....	54 16
1496	"	J. E. McGilvrey .....	" .....	108 33
1497	"	Seth J. Temple .....	" .....	100 00
1498	"	J. D. Phillips .....	" .....	83 33
1499	"	Violet D. Jayne .....	" .....	125 00
1500	"	Oscar Quick .....	" .....	80 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
1501	Jan. 31	E. J. Lake .....	Salary for January, 1898.....	\$70 00
1502	"	Ella H. Morrison.....	"	100 00
1503	"	Geo. A. Huff.....	"	120 00
1504	"	W. J. Fraser.....	"	37 50
1505	"	C. R. Rose.....	"	80 00
1506	"	J. C. Blair.....	"	45 83
1507	"	Margaret Mann.....	"	75 00
1508	"	Alison M. Fernie.....	"	100 00
1509	"	Agnes S. Cook.....	"	70 00
1510	"	A. C. Howland.....	"	80 00
1511	"	Chester H. Rowell.....	"	70 00
1512	"	Geo. H. Meyer.....	"	70 00
1513	"	W. H. Kavanaugh.....	"	80 00
1514	"	J. P. Hylan.....	"	80 00
1515	"	Alice Putnam.....	"	80 00
1516	"	A. C. Burnham.....	"	90 00
1517	"	Maude W. Straight.....	"	75 00
1518	"	Chas. F. Hottes.....	"	70 00
1519	"	W. C. Brenke.....	"	75 00
1520	"	C. T. Wilder.....	"	70 00
1521	"	Jessie Y. Fox.....	"	30 00
1522	"	James H. McKee.....	"	50 00
1523	"	George D. Hubbard.....	"	50 00
1524	"	H. A. Webber.....	"	50 00
1525	"	C. V. Seastone.....	"	50 00
1526	"	R. B. Ketchum.....	"	50 00
1527	"	H. V. Carpenter.....	"	50 00
1528	"	J. L. Sammis.....	"	50 00
1529	"	M. B. Hammond.....	"	50 00
1530	"	Anna Fossler.....	"	50 00
1531	"	C. B. Clark.....	"	85 00
1532	"	A. R. Curtis.....	"	85 00
1533	"	Henry Jones.....	"	60 00
1534	"	J. H. Wilson.....	"	60 00
1535	"	D. H. Carnahan.....	"	30 00
1536	"	A. C. Hobart.....	"	30 00
1537	"	E. W. Poole.....	"	30 00
1538	"	F. W. Schacht.....	"	30 00
1539	"	A. E. Paul.....	"	30 00
1540	"	Don Sweeney.....	"	30 00
1541	"	A. St. J. Williamson.....	"	10 00
1542	"	Edward G. Howe.....	"	150 00
1543	"	Lillie A. Clendenin.....	"	65 00
1544	"	R. S. Douglass.....	"	75 00
1545	"	C. B. Randolph.....	"	70 00
1546	"	C. W. Alvord.....	"	70 00
1547	"	W. L. Pillsbury.....	"	162 50
1548	"	Geo. W. Graham.....	"	100 00
1549	"	Lillie Heath.....	"	75 00
1550	"	Sue W. Ford.....	"	55 00
1551	"	L. A. Boice.....	"	55 00
1552	"	Wm. F. Marker.....	"	55 00
1553	"	Jennie M. Ladin.....	"	45 00
1554	"	Georgia E. Hopper.....	"	30 00
1555	"	Adeline M. Chase.....	"	25 00
1556	"	Mary T. Pierce.....	"	25 00
1557	"	F. J. Foote.....	"	75 00
1558	"	Joe Morrow.....	"	75 00
1559	"	E. W. Justus.....	"	50 00
1560	"	W. H. Zimmerman.....	"	50 00
1561	"	M. T. Lindsay.....	"	40 00
1562	"	I. H. Allen.....	"	40 00
1563	"	Richard Uttenweiler.....	"	60 00
1564	"	Fred Atkinson.....	"	35 00
1565	"	Chas. B. Ewalt.....	"	25 00
1566	"	D. McIntosh.....	"	75 00
1567	"	C. V. Millar.....	"	75 00
1568	"	R. W. Stark.....	"	50 00
1569	"	Henry J. East.....	"	40 00
1570	"	W. R. Hoffman.....	"	37 00
1571	"	L. G. Lathrop.....	"	32 00
1572	"	J. J. Johnson.....	"	32 00
1573	"	E. E. Pound.....	"	32 00
1574	"	A. S. Golden.....	"	32 00
1575	"	A. McGlaughlin.....	"	32 00
1576	"	E. A. Nelson.....	"	32 00

## Warrants--Continued.

No.	Date.	To whom.	For what.	Amount.	
1577	1898.				
	Jan.	31	Philip Schwelm .....	Salary for January, 1898.....	\$27 00
1578	"	"	Chas. T. Wilder .....	Blue prints and photo material.....	60 33
1579	"	"	McIntosh Battery & Optical Co. ....	Asbestos paper.....	1 25
1580	"	"	West Publishing Co.....	Subscriptions.....	24 00
1581	"	"	National Jeloluse Co.....	Jeloluse.....	6 32
1582	"	"	<i>Champaign County Herald</i> .....	Printing, etc.....	33 75
1583	"	"	E. Davenport.....	Expenses.....	15 55
1584	"	"	John B. Bennett.....	Labor and material on bridge.....	49 50
1585	"	"	Scully Steel & Iron Co.....	Boiler rivet steel.....	1 27
1586	"	"	Kny, Scheerer & Co.....	Condensers.....	67 50
1587	"	"	E. S. Golden.....	Tags for furniture, etc.....	18 50
1588	"	"	Wm. Price estate.....	Painting roof, etc.....	30 00
1589	"	"	Burrow Bros. Co.....	Book.....	3 50
1590	"	"	Queen & Co.....	Scales.....	57 60
1591	"	"	A. E. Thomas.....	Services in rehearsals, etc.....	2 00
1592	"	"	B. N. Rethy.....	Rent of double bass.....	3 00
1593	"	"	C. J. Sabin.....	Coal.....	5 00
1594	"	"	J. D. Phillips.....	Lettering diplomas.....	4 50
1595	"	"	Henry H. Everett.....	Expenses.....	18 16
1596	"	"	J. A. Reeves.....	Coal.....	44 25
1597	"	"	Ralph Bennett.....	Photographs.....	3 75
1598	"	"	J. T. Wolcott.....	Typewriting, etc.....	41 50
1599	"	"	Lord & Burnham Co.....	Contract for conservatory.....	2,730 07
1600	"	"	Hubbard & Sons.....	heaters, pipe, etc.....	1,002 83
1601	"	"	John M. Gregory.....	Lectures.....	100 00
1602	"	"	E. G. Keith.....	Salary for services.....	150 00
1603	"	"	Katharine L. Sharp.....	Expenses.....	7 66
1604	"	"	C. A. Kofoid.....		2 00
1605	"	"	T. R. Leal.....	Grading and hauling.....	35 10
1606	"	"	J. E. McGilvrey.....	Expenses visiting schools.....	47 86
1607	"	"	Walter H. Jones.....	Expenses for music.....	1 68
1608	"	"	Henry Heil Chemical Co.....	Lamp, weights, etc.....	4 81
1609	"	"	Standard Oil Co.....	Oil.....	22 32
1610	"	"	Jones & Laughlins.....	Machine bolts, steel, etc.....	27 61
1611	"	"	Pictorial Printing Co.....	Cardboard boxes.....	55 00
1612	"	"	Fuller & Fuller Co.....	Glue, hard oil, etc.....	9 56
1613	"	"	Chicago Calcium Light Co.....	Gas.....	5 10
1614	"	"	Wm. J. Bohm.....	Repairing tube.....	3 00
1615	"	"	Electric Appliance Co.....	Shades.....	49 23
1616	"	"	Goodyear Vulcanite Co.....	Rods, rubber, etc.....	17 96
1617	"	"	Gardner Governor Co.....	Governors.....	17 00
1618	"	"	Samuel M. Morton.....	Lantern slides.....	37 65
1619	"	"	Otis C. White.....	Apparatus.....	12 29
1620	"	"	Eimer & Amend.....	Platinum tube.....	129 20
1621	"	"	National Educational Ass'n.....	Proceedings.....	37 25
1622	"	"	Engineering News Pub. Co.....	Subscription.....	4 00
1623	"	"	Library Bureau.....	Library notes, etc.....	12 90
1624	"	"	Gustav E. Stechert.....	Books.....	457 33
1625	"	"	A. C. McClurg & Co.....	Books, stationery, etc.....	268 86
1626	"	"	Orr & Lockett Hardware Co.....	Sand paper, glue, etc.....	25 10
1627	"	"	Cosmopolitan Incand'ent L't Co.....	Lights, chimneys, etc.....	15 50
1628	"	"	<i>Publishers' Weekly</i> .....	Publications.....	34 00
1629	"	"	Bausch & Lomb Optical Co.....	Oven, thermometer, etc.....	30 25
1630	"	"	Thomas Naughton.....	Photographs.....	8 30
1631	"	"	A. P. Cunningham & Son.....	Tracing cloth, etc.....	22 59
1632	"	"	Mittendorf & Kiler.....	Burlap, chairs, etc.....	19 53
1633	"	"	F. K. Robeson & Bro.....	Crash, matting, etc.....	58 71
1634	"	"	Crosby Str'm Gauge & Valve Co.....	Globe valves.....	47 07
1635	"	"	<i>The Gazette</i> .....	Printing.....	90 73
1636	"	"	Chas. A. Besore.....	Lumber and coal.....	315 25
1637	"	"	James Littler.....	Coal.....	1 90
1638	"	"	E. Barr.....	Hard brick.....	6 50
1639	"	"	Dr. H. E. Cushing.....	Services, medicine, etc.....	3 50
1640	"	"	Champaign Co. Printing Co.....	Printing letter heads.....	8 50
1641	"	"	Henry Ostendorf.....	Hauling dead horse.....	2 00
1642	"	"	J. M. Chase.....	Painting.....	26 40
1643	"	"	Sheldon Brick Co.....	Sand.....	3 60
1644	"	"	Hubbard & Sons.....	Valves, fittings, etc.....	33 55
1645	"	"	Champ'ign M'hine & Supply Co.....	Anchor bolts, tees, plugs, etc.....	19 16
1646	"	"	Robinson & Burr.....	Pipe, valves, regulator, etc.....	152 92
1647	"	"	J. D. Green.....	Repairing roofs of buildings.....	150 88
1648	"	"	Edwin D. Weary.....	Book.....	3 00
1649	"	"	Callaghan & Co.....	Law books.....	14 15
1650	"	"	Richards & Co.....	Balances, weights, etc.....	410 26
1651	Feb.	14	<i>The Illio</i> .....	Advertising.....	100 00
1652	"	"	Hubbard & Sons.....	Iron tank, etc.....	4 95

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
1653	Feb. 14	A. E. Wuesteman.....	Regulator.....	\$1 50
1654	"	Walsh & Heuck.....	Lead tubing.....	1 20
1655	"	H. Swannell.....	Toilet paper, etc.....	52 80
1656	"	The Electric Arc Light Co.....	Globes, carbons, etc.....	18 01
1657	"	Queen & Co.....	Pyrometer, etc.....	14 75
1658	"	The Broadway.....	Rubber boots.....	9 00
1659	"	P. E. Taintor.....	Cement.....	3 50
1660	"	Twin City Ice & Cold Str'ge Co.....	Ice.....	3 76
1661	"	Library Bureau.....	Decimal classification, etc.....	87 50
1662	"	Henry Trevett.....	Pipe, galvanized iron, etc.....	68 05
1663	"	Cosm'pl'n Incan Gas Light Co.....	Lights, chimneys, etc.....	21 50
1664	"	Walch & Wyeth.....	Magnesia pipe covering.....	6 34
1665	"	Manning, Maxwell & Moore.....	Pump.....	6 00
1666	"	E. Henry.....	Brooms, soap, etc.....	38 30
1667	"	Twin City Electric Co.....	Brackets, shades, etc.....	20 43
1668	"	<i>Popular Astronomy</i> .....	Lantern slides.....	11 25
1669	"	Bausch & Lomb Optical Co.....	Knives, labels, jars, etc.....	28 11
1670	"	Eimer & Amend.....	Chemical apparatus, etc.....	100 48
1671	"	William Cox.....	Computers.....	20 65
1672	"	Kenyon News & Postal Sub. Co.....	Subscriptions.....	5 50
1673	"	Keuffel & Esser Co.....	Dividers.....	17 50
1674	"	Burrow Bros. Co.....	Books.....	11 24
1675	"	Western Electric Co.....	Cells, battery, jars, etc.....	25 56
1676	"	T. H. Trevett.....	Shovels, galvanized iron, etc.....	29 03
1677	"	Wm. J. Bohm.....	Repairs on pump.....	3 50
1678	"	Eugene Dietzgen & Co.....	Paper, cloth, etc.....	19 50
1679	"	H. McFadden & Bro.....	Bran, straw, etc.....	12 45
1680	"	Western News Co.....	Subscription.....	33 00
1681	"	Raoul Renault.....	".....	1 50
1682	"	Whiteside Co. Farmers' Inst.....	Advertisement.....	1 00
1683	"	E. S. Blakeslee.....	Electric motor.....	10 00
1684	"	W. A. Olmsted.....	Blackboards.....	14 40
1685	"	A. P. Carman.....	Expenses.....	14 61
1686	"	Chas. A. Besore.....	Lumber and coal.....	219 05
1687	"	Brunswick-Balke Collender Co.....	Oak desk.....	10 00
1688	"	H. W. Lynch.....	Coal.....	267 76
1689	"	Odin Coal Co.....	".....	357 01
1690	"	Crane Company.....	Pipe fittings, etc.....	101 28
1691	"	Whitall, Tatum & Co.....	Jars, bottles, apparatus, etc.....	172 56
1692	"	Gustav E. Stechert.....	Books.....	189 86
1693	"	W. W. Lindley.....	Postage.....	18 00
1694	"	Ozias Riley.....	Postage stamps.....	38 00
1695	"	A. W. Palmer.....	Expenses.....	8 25
1696	"	E. H. Renner & Bro.....	Hauling coal, etc.....	116 29
1697	"	S. W. Shattuck, business mgr.....	Ocean freight, etc.....	94 51
1698	"	".....	Expressage.....	50 80
1699	"	".....	Pay rolls, students, January, 1898..	251 98
1700	"	".....	Pay rolls, men, January, 1898.....	851 43
1701	Feb. 25	A. S. Draper.....	Salary for February, 1898.....	583 33
1702	"	T. J. Burrill.....	".....	200 00
1703	"	S. W. Shattuck.....	".....	166 66
1704	"	N. C. Ricker.....	".....	191 66
1705	"	Ira O. Baker.....	".....	187 50
1706	"	S. A. Forbes.....	".....	83 33
1707	"	C. W. Rolfe.....	".....	175 00
1708	"	D. McIntosh.....	".....	50 00
1709	"	A. N. Talbott.....	".....	175 00
1710	"	A. W. Palmer.....	".....	175 00
1711	"	F. F. Frederick.....	".....	158 33
1712	"	S. W. Parr.....	".....	175 00
1713	"	H. J. Barton.....	".....	175 00
1714	"	Chas. M. Moss.....	".....	175 00
1715	"	D. K. Dodge.....	".....	166 66
1716	"	L. P. Breckenridge.....	".....	187 50
1717	"	David Kinley.....	".....	187 50
1718	"	Eugene Davenport.....	".....	95 83
1719	"	Arnold Tompkins.....	".....	166 + 6
1720	"	A. P. Carman.....	".....	187 50
1721	"	Walter H. Jones.....	".....	100 00
1722	"	E. B. Greene.....	".....	141 66
1723	"	Geo. E. Gardner.....	".....	166 66
1724	"	C. C. Pickett.....	".....	125 00
1725	"	Katharine L. Sharp.....	".....	166 66
1726	"	Geo. T. Kemp.....	".....	166 66
1727	"	Geo. W. Myers.....	".....	150 00
1728	"	Edgar J. Townsend.....	".....	137 50



Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1729	1898.			
1730	Feb. 25	James M. White.....	Salary for February, 1898.....	133 33
1731	"	Lewis A. Rhoades.....	"	141 66
1732	"	Henry H. Everett.....	"	133 33
1733	"	Wm. H. VanDervoort.....	"	137 50
1734	"	W. D. Pence.....	"	133 33
1735	"	H. S. Grindley.....	"	108 33
1736	"	T. A. Clark.....	"	133 33
1737	"	H. S. Piatt.....	"	100 00
1738	"	B. V. Swenson.....	"	108 33
1739	"	A. H. Daniels.....	"	108 33
1740	"	Geo. D. Fairfield.....	"	108 33
1741	"	Chas. W. Tooke.....	"	108 33
1742	"	Fred A. Sager.....	"	100 00
1743	"	William Esty.....	"	108 33
1744	"	Frank Smith.....	"	100 00
1745	"	C. D. McLane.....	"	100 00
1746	"	P. G. Holden.....	"	54 16
1747	"	J. E. McGilvrey.....	"	108 33
1748	"	S. J. Temple.....	"	100 00
1749	"	J. D. Phillips.....	"	83 33
1750	"	Violet D. Jayne.....	"	125 00
1751	"	Oscar Quick.....	"	80 00
1752	"	Edward J. Lake.....	"	70 00
1753	"	Ella H. Morrison.....	"	100 00
1754	"	Geo. A. Huff.....	"	120 00
1755	"	W. J. Fraser.....	"	37 50
1756	"	Carlton R. Rose.....	"	80 00
1757	"	Joseph C. Blair.....	"	45 83
1758	"	Margaret Mann.....	"	75 00
1759	"	Allison M. Fernie.....	"	100 00
1760	"	Agnes S. Cook.....	"	70 00
1761	"	A. C. Howland.....	"	80 00
1762	"	Chester H. Rowell.....	"	70 00
1763	"	Geo. H. Meyer.....	"	70 00
1764	"	W. H. Kavanaugh.....	"	80 00
1765	"	J. P. Hylan.....	"	80 00
1766	"	Alice Putnam.....	"	80 00
1767	"	A. C. Burnham.....	"	90 00
1768	"	Maude W. Straight.....	"	75 00
1769	"	Chas. F. Hottes.....	"	70 00
1770	"	W. C. Brenke.....	"	75 00
1771	"	C. T. Wilder.....	"	70 00
1772	"	Jessie Y. Fox.....	"	30 00
1773	"	Jas. A. McKee.....	"	50 00
1774	"	Geo. D. Hubbard.....	"	50 00
1775	"	H. A. Webber.....	"	50 00
1776	"	C. V. Seastone.....	"	50 00
1777	"	R. B. Ketchum.....	"	50 00
1778	"	H. V. Carpenter.....	"	50 00
1779	"	J. L. Sammis.....	"	50 00
1780	"	M. B. Hammond.....	"	50 00
1781	"	Anna Fossler.....	"	50 00
1782	"	C. B. Clark.....	"	85 00
1783	"	A. R. Curtis.....	"	85 00
1784	"	Henry Jones.....	"	60 00
1785	"	J. H. Wilson.....	"	60 00
1786	"	D. H. Carnahan.....	"	30 00
1787	"	A. C. Hobart.....	"	30 00
1788	"	E. W. Poole.....	"	30 00
1789	"	F. W. Schacht.....	"	30 00
1790	"	A. E. Paul.....	"	30 00
1791	"	Don Sweeney.....	"	30 00
1792	"	A. S. Williamson.....	"	10 00
1793	"	Edward G. Howe.....	"	150 00
1794	"	Lillie A. ClenJenin.....	"	65 00
1795	"	R. S. Douglass.....	"	75 00
1796	"	C. B. Randolph.....	"	70 00
1797	"	C. W. Alvord.....	"	70 00
1798	"	W. L. Pillsbury.....	"	162 50
1799	"	Geo. W. Graham.....	"	100 00
1800	"	Lillie Heath.....	"	75 00
1801	"	Sue W. Ford.....	"	55 00
1802	"	L. A. Boice.....	"	55 00
1803	"	W. F. Marker.....	"	55 00
1804	"	Jennie M. Laffin.....	"	45 00
1804	"	Georgia E. Hopper.....	"	30 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1805	Feb. 28	Adelaide M. Chase	Salary for February, 1898	\$25 00
1806	"	Mary T. Pierce	"	25 00
1807	"	W. O. Waters	"	20 00
1808	"	Joe Morrow	"	75 00
1809	"	F. J. Foote	"	75 00
1810	"	E. W. Justus	"	50 00
1811	"	W. H. Zimmerman	"	50 00
1812	"	M. T. Lindsey	"	40 00
1813	"	I. H. Allen	"	40 00
1814	"	Richard Uttenwiler	"	60 00
1815	"	Fred Atkinson	"	35 00
1816	"	C. B. Ewalt	"	25 00
1817	"	Henry J. East	"	40 00
1818	"	W. R. Hoffman	"	37 00
1819	"	L. G. Lathrop	"	32 00
1820	"	J. J. Johnson	"	32 00
1821	"	A. S. Golden	"	32 00
1822	"	Allen McLaughlin	"	32 00
1823	"	E. A. Nelson	"	32 00
1824	"	Philip Schwehm	"	27 00
1825	"	C. V. Millar	"	75 00
1826	"	R. W. Stark	Salary, February, 1898	50 00
1827	"	D. McIntosh	"	75 00
1828	"	A. W. Palmer	Salary, 3 months, to Feb. 28, 1898	25 00
1829	"	J. C. Blair	Books	2 70
1830	"	Orr & Lockett Hardware Co.	Letter plates, etc	3 25
1831	"	Frank Smith	Class materials, etc.	21 34
1832	"	E. O. Vaile	Advertisement	10 00
1833	"	E. Barr	Pressed brick, etc	8 10
1834	"	Hibbard, Spencer, Bartlett & Co	Netting	6 50
1835	"	Bausch & Lomb Optical Co.	Objective, etc.	7 45
1836	"	Western News Co.	Subscriptions	21 65
1837	"	W. A. Olmsted Scientific Co.	Thermometers, etc.	18 24
1838	"	Wm. McGuire	Painting bridge samples	10 43
1839	"	Shawmut Fuse Wire Co.	Switch	5 83
1840	"	Howe, Brown & Co.	Tool steel, etc.	55 43
1841	"	L. P. Breckenridge	Expenses of lecture	14 50
1842	"	Charles Lents & Son	Centrifuge and attachment	24 10
1843	"	Providence Public Library	Subscription	2 00
1844	"	Ginn & Co.	Book	2 00
1845	"	Burrows Bros. Co.	Subscription	7 00
1846	"	Jones & Laughlins	Bolts, steel, etc	15 23
1847	"	Medart Patent Pulley Co.	Pulleys	17 64
1848	"	Yale & Towne Mfg Co.	Keys	3 18
1849	"	Crane Co.	Pipe valves, etc.	101 92
1850	"	Odin Coal Co.	Coal	585 60
1851	March 18	Alex McLean	Expenses	43 96
1852	"	F. M. McKay	"	28 70
1853	"	Samuel M. Inglis	"	10 00
1854	"	Isaac S. Raymond	"	13 20
1855	"	Mary L. Carriell	"	34 14
1856	"	S. A. Bullard	"	31 85
1857	"	J. E. Armstrong	"	13 55
1858	"	Mrs. Dora S. Smith	Work on museum material	25 00
1859	"	Samuel Bartley	Rent of land	10 00
1860	"	Morrison & Woodward	"	25 00
1861	"	S. B. Hedges	Milk	18 56
1862	"	Robinson & Burr	On contract	239 19
1863	"	Hubbard & Sons	Hardware and contract for mains	424 94
1864	"	J. Wiseman & Son	Paint and painting	10 80
1865	"	P. E. Taintor	Making cement floor	303 85
1866	"	The Inland Publishing Co.	Subscription	8 75
1867	"	The New England Pub. Co.	Copies of pamphlets	14 00
1868	"	James G. Bidle	Analytical balance	92 20
1869	"	Hibbard, Spencer, Bartlett & Co	Hardware	11 23
1870	"	<i>The Illini</i>	Advertisement	125 00
1871	"	A. Tompkins	Expenses	9 50
1872	"	Franke & Schindler	Wire rope	6 72
1873	"	Miller & Sibley	Jersey heifer	195 00
1874	"	Eimer & Amend	Chemicals	19 05
1875	"	Weston Electric In'st Co.	Repairing	9 50
1876	"	H. W. Lynch	Coal	418 14
1877	"	A. L. Ide & Son	Valve	5 00
1878	"	Fuller & Fuller Co.	Chemicals	18 09

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1879	March 18	Mathiessen & Hagle Zinc Co...	Spelter .....	\$9 90
1880	"	Champaign Mach. & Supply Co	Hardware .....	35 58
1881	"	Electric Appliance Co.....	Electrical supplies .....	1 83
1882	"	Crosby St'm Gauge & Valve Co	Pantagraph, etc.....	16 00
1883	"	Wm. S. Royal .....	Oil .....	1 95
1884	"	Illinois Malleable Iron Co.....	Fittings .....	2 95
1885	"	J. Manz & Co.....	Portrait .....	6 00
1886	"	Callahan & Co.....	Books.....	2 40
1887	"	Orr & Lockett Hardware Co.	Hooks, plates, etc .....	13 00
1888	"	Bausch & Lomb Optical Co.....	Scissors and turntables.....	18 00
1889	"	L. H. Owbridge.....	Photographs .....	8 40
1890	"	H. D. Oldham .....	Ink, pens, paste, etc.....	3 80
1891	"	Robinson Bicycle Trainer Co..	Trainors and dials.....	43 80
1892	"	Chas. H. Besly & Co.....	Rods, tubing, pliers, etc.....	13 71
1893	"	Eates & Guild Co.....	Pencil sketches.....	3 00
1894	"	Grant Gear Works .....	Machine .....	60 00
1895	"	Henry J. Green .....	Thermograph and thermometers...	31 05
1896	"	S. A. Forbes .....	Expenses.....	8 16
1897	"	W. L. Pillsbury .....	" .....	9 71
1898	"	T. R. Leal .....	Hauling and labor.....	87 22
1899	"	S. W. Shattuck, business mgr.	Pay-rolls of men, Feb., 1898	833 32
1900	"	" .....	students, Feb., 1898 .....	333 16
1901	March 31	A. S. Draper .....	Salary, March, 1898 .....	553 33
1902	"	T. J. Burrill .....	" .....	200 00
1903	"	S. W. Shattuck .....	" .....	166 66
1904	"	N. C. Ricker .....	" .....	191 66
1905	"	Ira O. Baker.....	" .....	187 50
1906	"	S. A. Forbes .....	" .....	83 33
1907	"	C. W. Rolfe .....	" .....	175 00
1908	"	D. McIntosh .....	" .....	50 00
1909	"	A. N. Talbot .....	" .....	175 00
1910	"	A. W. Palmer .....	" .....	175 00
1911	"	F. F. Frederick.....	" .....	158 33
1912	"	S. W. Parr .....	" .....	175 00
1913	"	H. J. Barton .....	" .....	175 00
1914	"	Chas. M. Moss .....	" .....	175 00
1915	"	D. K. Dodge .....	" .....	166 66
1916	"	L. P. Breckenridge .....	" .....	187 50
1917	"	David Kinley .....	" .....	187 50
1918	"	E. Davenport .....	" .....	95 83
1919	"	Arnold Tompkins .....	" .....	166 66
1920	"	A. P. Carman .....	" .....	187 50
1921	"	Walter H. Jones .....	" .....	100 00
1922	"	E. B. Greene .....	" .....	141 66
1923	"	Geo. E. Gardner.....	" .....	166 66
1924	"	C. C. Pickett .....	" .....	125 00
1925	"	Katharine L. Sharp.....	" .....	166 66
1926	"	Geo. T. Kemp .....	" .....	166 66
1927	"	G. W. Myers .....	" .....	150 00
1928	"	Edgar J. Townsend.....	" .....	137 50
1929	"	Jas. M. White .....	" .....	133 33
1930	"	L. A. Rhoades .....	" .....	141 66
1931	"	Henry H. Everett.....	" .....	133 33
1932	"	W. H. Van Dervoort.....	" .....	137 50
1933	"	W. D. Pence .....	" .....	133 33
1934	"	H. S. Grindley .....	" .....	108 33
1935	"	T. A. Clark .....	" .....	133 33
1936	"	H. S. Piatt .....	" .....	100 00
1937	"	R. V. Swenson .....	" .....	108 33
1938	"	A. H. Daniels .....	" .....	108 33
1939	"	Geo. D. Fairfield.....	" .....	108 33
1940	"	Chas. W. Tooke .....	" .....	108 33
1941	"	Fred A. Sager .....	" .....	100 00
1942	"	William Esty .....	" .....	108 33
1943	"	Frank Smith .....	" .....	100 00
1944	"	C. D. McLane .....	" .....	100 00
1945	"	P. G. Holden .....	" .....	54 16
1946	"	J. E. McGilvrey.....	" .....	108 33
1947	"	Seth J. Temple .....	" .....	100 00
1948	"	J. D. Phillips .....	" .....	83 33
1949	"	Violet D. Jayne.....	" .....	125 00
1950	"	Oscar Quick .....	" .....	80 00
1951	"	Edward J. Lake .....	" .....	70 00
1952	"	Ella H. Morrison.....	" .....	100 00
1953	"	Geo. A. Huff .....	" .....	120 00
1954	"	W. J. Fraser.....	" .....	37 50

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1895	March 31	Carlton R. Rose .....	Salary, March, 1898 .....	\$80 00
1896	"	J. C. Blair .....	" .....	45 83
1897	"	Margaret Mann .....	" .....	75 00
1898	"	Alison M. Fernie .....	" .....	100 00
1899	"	Agnes S. Cook .....	" .....	70 00
1900	"	A. C. Howland .....	" .....	80 00
1901	"	Chester H. Rowell .....	" .....	70 00
1902	"	Geo. H. Meyer .....	" .....	70 00
1903	"	W. H. Kavanaugh .....	" .....	80 00
1904	"	J. P. Hylan .....	" .....	80 00
1905	"	Alice Putnam .....	" .....	80 00
1906	"	A. C. Burnham .....	" .....	90 00
1907	"	Maude W. Straight .....	" .....	75 00
1908	"	Chas. F. Hottes .....	" .....	70 00
1909	"	W. C. Brenke .....	" .....	75 00
1970	"	C. T. Wilder .....	" .....	70 00
1971	"	Jessie Y. Fox .....	" .....	30 00
1972	"	J. H. McKee .....	" .....	50 00
1973	"	Geo. D. Hubbard .....	" .....	50 00
1974	"	H. A. Webber .....	" .....	50 00
1975	"	C. V. Seastone .....	" .....	50 00
1976	"	R. B. Ketchum .....	" .....	50 00
1977	"	H. V. Carpenter .....	" .....	50 00
1978	"	J. L. Sammis .....	" .....	50 00
1979	"	M. B. Hammond .....	" .....	50 00
1980	"	Anna Fossler .....	" .....	50 00
1981	"	C. B. Clark .....	" .....	85 00
1982	"	A. R. Curtiss .....	" .....	85 00
1983	"	Henry Jones .....	" .....	60 00
1984	"	J. H. Wilson .....	" .....	60 00
1985	"	D. H. Carnahan .....	" .....	30 00
1986	"	A. C. Hobart .....	" .....	30 00
1987	"	F. W. Schacht .....	" .....	30 00
1988	"	A. E. Paul .....	" .....	30 00
1989	"	Don Sweeey .....	" .....	30 00
1990	"	A. S. Williamson .....	" .....	10 00
1991	"	Edward G. Howe .....	" .....	150 00
1992	"	Lillie A. Clendenin .....	" .....	65 00
1993	"	R. S. Douglass .....	" .....	75 00
1994	"	C. B. Randolph .....	" .....	70 00
1995	"	C. W. Alward .....	" .....	70 00
1996	"	W. L. Pillsbury .....	services .....	162 50
1997	"	S. W. Shattuck .....	" .....	100 00
1998	"	D. McIntosh .....	" .....	75 00
1999	"	C. V. Millar .....	" .....	75 00
2000	"	R. W. Stark .....	" .....	50 60
2001	"	Geo. W. Graham .....	services .....	100 00
2002	"	Lillie Heath .....	" .....	75 00
2003	"	Sue W. Ford .....	" .....	55 00
2004	"	L. A. Boice .....	" .....	55 00
2005	"	Jennie M. Laffin .....	" .....	45 00
2006	"	Georgia E. Hopper .....	" .....	30 00
2007	"	Adelaide M. Chase .....	" .....	25 00
2008	"	Mary L. Pierce .....	" .....	25 00
2009	"	W. O. Waters .....	" .....	20 00
2010	"	F. J. Foote .....	services .....	75 00
2011	"	Joe Morrow .....	" .....	75 00
2012	"	E. W. Justus .....	" .....	50 00
2013	"	W. H. Zimmerman .....	" .....	50 00
2014	"	M. T. Lindsey .....	" .....	40 00
2015	"	J. H. Allen .....	" .....	40 00
2016	"	Richard Uttenweiler .....	" .....	60 00
2017	"	Fred Atkinson .....	" .....	35 00
2018	"	C. B. Ewalt .....	" .....	25 00
2019	"	Henry J. East .....	" .....	40 00
2020	"	W. R. Hoffman .....	" .....	37 00
2021	"	L. G. Lathrop .....	" .....	32 00
2022	"	J. J. Johnson .....	" .....	32 00
2023	"	E. A. Nelson .....	" .....	32 00
2024	"	A. S. Golden .....	" .....	32 00
2025	"	Allen McGlaughlin .....	" .....	32 00
2026	"	Philip Schwehr .....	" .....	27 00
2027	"	W. F. Marker .....	" .....	55 00
2028	"	Central Electric Co. ....	Wire, tubes, lamps, etc. ....	70 78
2029	"	American Steam Gage Co. ....	Pantagraph and counter .....	13 91
2030	"	J. H. Young .....	Spherometer and screw .....	2 40

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2031	March 31	Riehl Bros .....	Pocket recorder .....	\$125 00
2032	"	C. C. Gere .....	Timer .....	17 50
2033	"	Whitall, Tatum & Co .....	Tinct. ....	15 96
2034	"	E. Hastings .....	Services .....	10 00
2035	"	John Wiley & Sons .....	Book .....	1 26
2036	"	The Baker & Adam'n Chem. Co .....	Acid and ammonia .....	44 30
2037	"	Fauth & Co .....	Sunshade .....	1 55
2038	"	Samuel M. Morton .....	Lantern slides and express .....	13 90
2039	"	David S. Jordan .....	Mounting skin .....	2 50
2040	"	H. H. Scurlock .....	Blue print .....	2 50
2041	"	C. & U. Phoenix Telephone Co. ....	Telephone services .....	37 25
2042	"	Geo. Wittbold .....	Plants .....	9 70
2043	"	Detroit Flower Pot Mfy .....	Flower pots .....	10 66
2044	"	Ozias Riley, P. M. ....	Stamps .....	79 00
2045	"	E. H. Renner & Bro. ....	Hauling .....	193 29
2046	"	J. E. McGilvrey .....	Expenses .....	14 49
2047	"	T. R. Leal .....	Labor and hauling .....	90 81
2048	"	S. W. Shattuck, business mgr. ....	Expressage .....	52 25
2049	"	" .....	Freight .....	197 88
2050	"	" .....	Expenses, etc .....	132 43
2051	April 15	The W. J. Johnston Co .....	General index .....	8 00
2052	"	Western Electric Co .....	Switch connections .....	20 58
2053	"	John Roebling's Sons Co .....	Wire .....	53 87
2054	"	J. D. Green .....	Repairing sheet tin and boxes .....	18 10
2055	"	Engineering News Publish'g Co .....	Advertisement .....	6 88
2056	"	G. Cramer .....	Plates .....	25 76
2057	"	Sweet, Wallach & Co .....	Photographic materials .....	18 75
2058	"	Wilson & Christensen .....	Mop wringer .....	3 50
2059	"	L. C. Garwood .....	Shot and repairing .....	3 92
2060	"	J. T. Wolcott .....	Services .....	1 75
2061	"	Armour & Co .....	Pigs bags .....	1 00
2062	"	Fuller & Fuller Co .....	Chemicals .....	19 03
2063	"	A. B. Dick Co .....	Mimeograph supplies .....	2 40
2064	"	D. H. Lloyde & Sons .....	Book, etc .....	29 94
2065	"	T. H. Trevett .....	Lantern, nails, etc .....	6 87
2066	"	G. C. Willis .....	Cloth, etc .....	70 75
2067	"	R. S. Wilber .....	Hauling .....	148 15
2068	"	Chas. A. Besore .....	Lumber .....	126 47
2069	"	<i>The Gazette</i> .....	Printing, etc .....	104 50
2070	"	<i>Champaign County Herald</i> .....	" .....	77 26
2071	"	Western Electrical Instur. Co. ....	Electrical supplies .....	10 60
2072	"	Wm. D. Pence .....	Expressage .....	1 50
2073	"	American Society of C. E. ....	Book .....	1 50
2074	"	Gowing & Co .....	Calorimeter .....	28 00
2075	"	Kueffel & Esser Co .....	Protractor, etc .....	8 73
2076	"	William Cox .....	Computer .....	3 60
2077	"	Riehle Bros .....	Sieves .....	12 20
2078	"	Wm. J. Bohm .....	Tubes .....	6 50
2079	"	Hubbard & Sons .....	Hardware .....	15 20
2080	"	Ward's Nat. Science Estab't .....	Bird skins .....	29 25
2081	"	J. C. Winship Co .....	Circulars .....	15 75
2082	"	Alexander Lumber Co .....	Lumber .....	34 04
2083	"	C. H. Mills .....	Mare .....	8 00
2084	"	H. M. Dickson Mfg. Co .....	Doors, glass, etc .....	60 92
2085	"	Callaghan & Co .....	Books .....	8 00
2086	"	Walker & Mulliken .....	Frames, chairs, etc .....	29 75
2087	"	<i>School News and Prac. Educ'r</i> .....	Advertisement .....	12 48
2088	"	Gaertner & Regennas .....	Repairing .....	2 50
2089	"	E. R. Bowker .....	Books .....	5 00
2090	"	F. M. Morris .....	" .....	5 75
2091	"	Boston Book Co .....	Library Journal .....	20 00
2092	"	The Burrows Bros. Co .....	Book .....	7 00
2093	"	Freidenker Pub. Co .....	" .....	2 00
2094	"	Armour Inst. of Technology .....	Index .....	12 50
2095	"	Bausch & Lomb Optical Co .....	Slips, covers, squares, etc .....	47 64
2096	"	Wm. H. Armstrong & Co .....	Forceps, syringe, etc .....	19 90
2097	"	D. P. & John Wilkinson Co .....	Tool holder .....	1 25
2098	"	Brainard Milling Mach. Co .....	Repairing machine .....	12 00
2099	"	Machinists Supply Co .....	Cutters, pins, studs, etc .....	6 06
2100	"	Jones & Laughlins Co .....	Bolts and beams .....	6 43
2101	"	Mittendorf & Kiler .....	Rubber tips, baskets, etc .....	23 80
2102	"	H. M. Shuck & Co .....	Hooks and glue .....	1 70
2103	"	Westinghouse, Church, Kerr Co .....	Oil .....	8 93
2104	"	Standard Oil Co .....	" .....	22 75
2105	"	J. C. Vaughan .....	Seeds .....	39 21
2106	"	S. B. Hedges .....	Milk .....	12 88

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2107	April 15	Library Bureau	Pads and pens	\$9 00
2108	"	Champaign Mach. & Supply Co	Hanger, pulleys, etc.	28 54
2109	"	E. Henry	Brooms, shellac, etc.	39 73
2110	"	Yale & Towne Mfg. Co.	Keys	2 34
2111	"	Urb. & Cham. Ry. Gas & El. Co.	Gas and electricity	1,088 68
2112	"	Cunningham Bros	Paper	6 35
2113	"	M. C. Lilley & Co	Flag, sword and belt	69 80
2114	"	A. C. McClurg & Co	Books, stationery, etc.	100 02
2115	"	William Price Estate.	Moulding, shades, glass, etc	268 35
2116	"	Henry Trevett	Chalk lines and plumb bobs	1 10
2117	"	W. A. Olmsted Scientific Co.	Glasses and stands	8 22
2118	"	H. D. Stoltey & Co	Rubber boots	4 50
2119	"	W. S. Royal	Oil	1 30
2120	"	Public School Pub. Co.	Advertisement	12 50
2121	"	Edward Thompson Co.	Books	76 00
2122	"	Geo. F. Blake Mfg. Co	Canvas	2 00
2123	"	Boyer Ry. Speed Recorder Co.	Speed recorder	80 00
2124	"	A. P. Garman	Expenses	7 60
2125	"	M. B. Hammond		15 55
2126	"	Odin Coal Co.	Coal	788 40
2127	"	H. W. Lynch		275 27
2128	"	Hubbard & Sons	Hardware and labor	10 89
2129	"	Bausch & Lomb Optical Co.	Microscope	29 00
2130	"	A. A. A. Coll. Exp. St.	Membership fee	10 00
2131	"	David Kinley	Expenses	13 91
2132	"	Unlap & Wright	Contract plumbing and labor	65 40
2133	"	Orr & Lockett Hardware Co.	Locks and hinges	104 66
2134	"	Central Electric Co.	Fibre	4 85
2135	"	E. H. Renner & Bro	Hauling	19 55
2136	"	E. Davenport	Expenses	8 20
2137	"	The Kny-Scheerer Co	Myographion, knives, etc.	94 40
2138	"	C. H. Russell & Co.	Doors, keys, etc.	1 85
2139	"	Francke Hardware Co.	Screws, washers, etc	18 30
2140	"	Frank F. Frederick	Services, hooks, etc	11 93
2141	"	Gustav E. Stechert	Books	249 50
2142	"	Riehle Bros. Testing Mach. Co.	Sp. grav. apparatus	6 05
2143	"	Central Union Telephone Co.	Telephone service	15 50
2144	"	W. W. Lindley	Stamps	35 00
2145	"	T. R. Leal	Hauling	56 80
2146	"	J. B. Colt & Co.	Carbons	5 00
2147	"	S. W. Shattuck, Business Mgr.	Expressage	63 37
2148	"	"	Freight	144 70
2149	"	"	Pay rolls of men, March, 1898.	1,392 78
2150	"	"	students, March, 1898.	277 60
2151	April 30	The J. C. Witter Co.	Portfolio	3 75
2152	"	Edward Thompson Co.	Books	3 00
2153	"	Callaghan & Co.		4 00
2154	"	<i>The Chicago Record</i>	Daily News Almanac	3 00
2155	"	The Burrows Bros. Co.	Books	7 00
2156	"	Champaign Mach. & Supply Co	Belting reducers	17 35
2157	"	C. H. Baddeley	Beef and lamp	4 01
2158	"	<i>The Gazette</i>	Cardboard, pedigree blanks, etc	12 85
2159	"	Narragansett Machine Co.	Parallel bars, etc.	52 50
2160	"	A. G. Spalding & Bros.	Buck, striking bags, etc.	58 25
2161	"	Chas. A. Besore	Lumber	27 06
2162	"	William Price Estate	Oil, shades, etc	80 46
2163	"	Central Electric Co.	Insulators, tubes, etc	53 56
2164	"	John A. Roebling's Sons Co.	Wire	65 13
2165	"	Crane Co	Pipe, etc	31 42
2166	"	John F. Townsley Mfg. Co.	Trucks	24 00
2167	"	Eimer & Amend	Thermometers, tubing, etc.	71 31
2168	"	Hubbard & Sons	Enamel register, etc.	4 25
2169	"	Singbusch & Stoltey	Soap	1 00
2170	"	Pulsometer Steam Pump Co.	Pulsometer	90 00
2171	"	Henry Trevett	Hardware	15 35
2172	"	Twin City Ice & Cold St'ge Co.	Ice	2 80
2173	"	Fuller & Fuller Co.	Chemicals	12 60
2174	"	Urbana & Cham. Gas & Elec. Co	Coke	4 50
2175	"	Chicago General Fixture Co.	Posts, wire, etc	12 74
2176	"	A. C. McClurg & Co	Books	120 33
2177	"	Gustav E. Stechert		425 01
2178	"	T. H. Trevett	Rope, plyers, etc.	5 60
2179	"	American Society of M. E.	Copies of paper	1 15
2180	"	J. C. Vaughan	Seeds	10 85
2181	"	E. S. Golden	Shovel and rakes	1 80
2182	"	Mrs. John Conkle	Sewing covers	3 75

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2183	April 30	Knowlton & Bennett.....	Lenses, paper, etc.....	\$3 70
2184	"	John Armstrong.....	Rubber boots.....	2 50
2185	"	J. D. Green.....	Labor and materials.....	15 90
2186	"	W. W. Walls & Co.....	Lumber.....	100 44
2187	"	Chas. H. Besley & Co.....	Machine screws.....	1 26
2188	"	Bausch & Lomb Optical Co.....	Lenses, etc.....	22 25
2189	"	Electric Appliance Co.....	Electrical supplies.....	25 00
2190	"	General Electric Co.....	Lamps.....	52 50
2191	"	Alexander Lumber Co.....	Lumber.....	7 25
2192	"	Ella H. Morrison.....	Expenses.....	1 85
2193	"	F. K. Robeson & Bro.....	Napkins and cuspidors.....	1 10
2194	"	The Michigan Pipe Co.....	Pipe.....	149 24
2195	"	Thomas J. Smith (Trustee).....	Expenses.....	29 66
2196	"	W. L. Pillsbury.....		13 36
2197	"	Ozias Riley.....	Stamps.....	38 00
2198	"	S. B. Hedges.....	Hauling.....	10 00
2199	"	E. H. Renner & Bro.....	Hauling, etc.....	55 07
2200	"	T. R. Leal.....	Grading, etc.....	160 26
2201	"	A. S. Draper.....	Salary, April, 1898.....	583 33
2202	"	T. J. Burrill.....		200 00
2203	"	S. W. Shattuck.....		166 66
2204	"	N. C. Ricker.....		191 66
2205	"	Ira O. Baker.....		187 50
2206	"	S. A. Forbes.....		83 33
2207	"	C. W. Rolfe.....		175 00
2208	"	D. McIntosh.....		50 00
2209	"	A. N. Talbot.....		175 00
2210	"	A. W. Palmer.....		175 00
2211	"	F. F. Frederick.....		158 33
2212	"	S. W. Parr.....		175 00
2213	"	H. J. Barton.....		175 00
2214	"	C. M. Moss.....		175 00
2215	"	D. K. Dodge.....		166 66
2216	"	L. P. Breckenridge.....		187 50
2217	"	D. Kinley.....		187 50
2218	"	E. Davenport.....		95 83
2219	"	A. Tompkins.....		166 66
2220	"	A. P. Carman.....		187 50
2221	"	W. H. Jones.....		100 09
2222	"	E. B. Greene.....		141 66
2223	"	Geo. E. Gardener.....		166 66
2224	"	C. C. Pickett.....		125 00
2225	"	Katharine L. Sharp.....		166 66
2226	"	Geo. T. Kemp.....		166 66
2227	"	George W. Myers.....		150 00
2228	"	Edgar J. Townsend.....		137 50
2229	"	J. M. White.....		133 33
2230	"	L. A. Rhoades.....		141 66
2231	"	H. H. Everett.....		133 33
2232	"	W. H. VanDervoort.....		137 50
2233	"	W. D. Pence.....		133 33
2234	"	H. S. Grindley.....		108 33
2235	"	T. A. Clark.....		133 33
2236	"	H. S. Piatt.....		100 03
2237	"	B. V. Swenson.....		108 33
2238	"	A. H. Daniels.....		108 33
2239	"	George D. Fairfield.....		108 33
2240	"	C. W. Tooke.....		108 33
2241	"	Fred A. Sager.....		100 00
2242	"	William Esty.....		108 33
2243	"	Frank Smith.....		100 00
2244	"	C. D. McLane.....		100 00
2245	"	P. G. Holden.....		54 16
2246	"	J. E. McGilvrey.....		108 33
2247	"	Seth J. Temple.....		100 00
2248	"	J. D. Phillips.....		83 33
2249	"	Violet D. Jayne.....		125 00
2250	"	Oscar Quick.....		80 00
2251	"	E. J. Lake.....		70 00
2252	"	Ella H. Morrison.....		100 00
2253	"	George A. Huff.....		120 00
2254	"	W. J. Fraser.....		37 50
2255	"	C. R. Rose.....		80 00
2256	"	J. C. Blair.....		45 83
2257	"	Margaret Mann.....		75 00
2258	"	Allison M. Fernie.....		100 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2258	April 30	Agnes S. Cook.....	Salary, April, 1898.....	\$70 00
2260	"	A. C. Howland.....	"	80 00
2261	"	Chester H. Rowell.....	"	70 00
2262	"	Geo. H. Meyer.....	"	70 00
2263	"	W. H. Kavanaugh.....	"	80 00
2264	"	J. P. Hylan.....	"	80 00
2265	"	Alice Putnam.....	"	80 00
2266	"	A. C. Burnham.....	"	90 00
2267	"	Maude W. Striaght.....	"	75 00
2268	"	Charles F. Hottes.....	"	70 00
2269	"	W. C. Brenke.....	"	75 00
2270	"	C. T. Wilder.....	"	70 00
2271	"	Jessie Y. Fox.....	"	30 00
2272	"	J. H. McKee.....	"	50 00
2273	"	G. D. Hubbard.....	"	50 00
2274	"	H. A. Webber.....	"	50 00
2275	"	C. V. Seastone.....	"	50 00
2276	"	R. B. Ketchum.....	"	50 00
2277	"	H. V. Carpenter.....	"	50 00
2278	"	J. L. Sammis.....	"	50 00
2279	"	M. B. Hammond.....	"	50 00
2280	"	Anna Fossler.....	"	50 00
2281	"	C. B. Clark.....	"	85 00
2282	"	A. R. Curtiss.....	"	85 00
2283	"	Henry Jones.....	"	75 00
2284	"	J. H. Wilson.....	"	60 00
2285	"	D. H. Carnahan.....	"	60 00
2286	"	A. C. Hobart.....	"	30 00
2287	"	F. W. Schacht.....	"	30 00
2288	"	A. E. Paul.....	"	30 00
2289	"	Don Sweeney.....	"	30 00
2290	"	A. S. Williamson.....	"	10 00
2291	"	E. G. Howe.....	"	150 00
2292	"	Lillie A. Clendenin.....	"	65 00
2293	"	R. S. Douglass.....	"	75 00
2294	"	C. B. Randolph.....	"	70 00
2295	"	C. W. Alvord.....	"	70 00
2296	"	W. L. Pillsbury.....	"	162 50
2297	"	D. McInosh.....	"	75 00
2298	"	C. V. Millar.....	"	70 00
2299	"	R. W. Stark.....	"	50 00
2300	"	Geo. W. Graham.....	"	100 00
2301	"	Lillie Heath.....	"	75 00
2302	"	Sue W. Ford.....	"	55 00
2303	"	L. A. Boice.....	"	55 00
2304	"	Jennie M. Laffin.....	"	45 00
2305	"	Georgia E. Hopper.....	"	30 00
2306	"	Aldeade M. Chase.....	"	25 00
2307	"	Mary T. Pierce.....	"	25 00
2308	"	W. O. Waters.....	"	20 00
2309	"	F. J. Foote.....	"	75 00
2310	"	Joe Morrow.....	"	75 00
2311	"	E. W. Justus.....	"	50 00
2312	"	W. H. Zimmerman.....	"	60 00
2313	"	M. T. Lindsey.....	"	40 00
2314	"	R. Uttenweiler.....	"	60 00
2315	"	Fred Atkinson.....	"	35 00
2316	"	Chas. B. Ewalt.....	"	25 00
2317	"	J. H. Allen.....	"	40 00
2318	"	Henry J. East.....	"	40 00
2319	"	Pearl Adams.....	"	40 00
2320	"	W. R. Hoffman.....	"	37 00
2321	"	L. G. Lathrop.....	"	32 00
2322	"	J. J. Johnson.....	"	32 00
2323	"	E. A. Nelson.....	"	32 00
2324	"	Elbert E. Pound.....	"	32 00
2325	"	A. S. Golden.....	"	32 00
2326	"	Allen McGlaughlin.....	"	32 00
2327	"	Philip Schwehrm.....	"	27 00
2328	May 14	J. C. Sedgwick.....	Payment on contract.....	456 00
2329	"	G. G. Keith.....	Clerk services.....	150 00
2330	"	James B. Clow & Sons.....	Copper floats, etc.....	28 98
2331	"	Whitall, Tatum & Co.....	Tincture, etc.....	15 69
2332	"	Queen & Co.....	Induction oil.....	35 50
2333	"	L. E. Knott Appliance Co.....	Meter sticks, etc.....	49 40
2334	"	Cleveland Public Library.....	Index.....	5 00



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2335	May 14	<i>The Publishers Weekly</i> .....	"	\$1 50
2336	"	City of Urbana.....	Publication and survey.....	100 40
2337	"	F. A. Sackmann.....	Stamp.....	2 04
2338	"	<i>The P. &amp; S. Plexus</i> .....	Advertisement.....	21 00
2339	"	William Price Estate.....	Varnish, etc.....	205 94
2340	"	Orr & Lockett Hardware Co... ..	Hooks and belts.....	5 20
2341	"	L. Myrtle Green.....	Typewriting and postage .....	3 58
2342	"	H. M. Hooker & Co.....	White lead, etc.....	61 00
2343	"	Fred P. Rush & Co.....	Coal.....	21 17
2344	"	W. S. Royal.....	Oil and gasoline .....	1 95
2345	"	Henry Trevett.....	Wire, etc.....	2 10
2346	"	Chicago Retort & Fire Brick Co	Brick.....	185 80
2347	"	Seth J. Temple.....	Expenses.....	9 46
2348	"	Electric Appliance Co.....	Electrical supplies .....	106 94
2349	"	Chas. A. Schieren & Co.....	Belting.....	344 84
2350	"	T. R. Leal.....	Labor and hauling.....	105 50
2351	"	Schaffer & Budenberg.....	Tachometer and ejector.....	63 00
2352	"	Thompson & Bushnell.....	Reducing wheels and indicators.....	111 50
2353	"	C. H. Baddeley.....	Tumblers, etc.....	5 83
2354	"	Alexander Lumber Co.....	Lumber.....	15 64
2355	"	The Davis Motor Co., Limited.	Electrical instrument.....	515 28
2356	"	Peoria Steam Marble Works.....	Slabs.....	170 00
2357	"	The Electric Arc Light Co.....	Bulbs.....	3 00
2358	"	Western Electric Co.....	Electrical supplies.....	80 27
2359	"	Buffalo Meter Co.....	Meter.....	8 50
2360	"	R. Abernathy.....	Sign writing.....	6 35
2361	"	Curtis & Curtis.....	Plate, etc.....	15 00
2362	"	J. C. Vaughan.....	Seeds.....	9 10
2363	"	E. G. Howe.....	Expenses.....	4 80
2364	"	William R. Ware.....	Blue prints.....	7 50
2365	"	Blue Print Department.....	Blue printing.....	33 72
2366	"	J. W. Butler Paper Co.....	Paper.....	13 15
2367	"	A. C. McClurg & Co.....	Books, etc.....	114 59
2368	"	West Publishing Co.....	"	34 50
2369	"	Callaghan & Co.....	Book.....	3 50
2370	"	The Helman-Taylor Co.....	Books.....	5 00
2371	"	Ward Bros.....	"	59 40
2372	"	The Chas. A. Strelinger Co.....	Washers, etc.....	10 37
2373	"	Central Electric Co.....	Wire.....	32 38
2374	"	Francke Hardware Co.....	Screws and casters.....	9 52
2375	"	Westinghouse Elect. & Mfg Co.	Punchings.....	19 40
2376	"	Eimer & Amend.....	Flasks, etc.....	28 16
2377	"	Robinson & Burr.....	Machine supplies, etc.....	75 10
2378	"	Twin City Electric Co.....	Wire, etc.....	10 05
2379	"	Champaign Mach. & Supply Co	Machine supplies.....	67 06
2380	"	Walch & Wyeth.....	Magnesia covering.....	105 06
2381	"	Neptune Meter Co.....	Meter.....	22 50
2382	"	Crosby Steam Gage & Valve Co	Indicator, etc.....	22 81
2383	"	John B. Bennett.....	Masonry and labor.....	137 85
2384	"	General Electric Co.....	Electric supplies.....	67 13
2385	"	Thos. Wright & Son.....	Catch basin.....	5 50
2386	"	Liquid Carbonic Acid Mfg Co..	Drum gas.....	3 00
2387	"	West Publishing Co.....	Advertisement.....	55 00
2388	"	<i>The 1898 Illio</i> .....	Plates.....	20 00
2389	"	Eichberg & Baer.....	Wire mats.....	5 00
2390	"	C. A. Besore.....	Coal, etc.....	183 55
2391	"	W. W. Lindley.....	Stamps.....	116 00
2392	"	Ozias Riley.....	Postage stamps.....	65 00
2393	"	E. H. Renner & Bro.....	Hauling.....	53 35
2394	"	A. G. Spaulding & Bros.....	Gymnasium apparatus.....	421 28
2395	"	T. R. Leal.....	Hauling and labor.....	117 61
2396	"	S. W. Shattuck, business mgr.	Freight.....	120 15
2397	"	"	Express.....	69 50
2398	"	"	Petty expenses.....	141 47
2399	"	"	Pay rolls of men, April, 1898	1,254 88
2400	"	"	students,	225 28
2401	May 31	A. S. Draper.....	Salary for May, 1898.....	583 33
2402	"	T. J. Burrill.....	"	200 00
2403	"	S. W. Shattuck.....	"	166 66
2404	"	N. C. Ricker.....	"	191 66
2405	"	Ira O. Baker.....	"	187 50
2406	"	S. A. Forbes.....	"	83 33
2407	"	C. W. Rolfe.....	"	175 00
2408	"	D. McIntosh.....	"	50 00
2409	"	A. N. Talbot.....	"	175 00
2410	"	A. W. Palmer.....	"	175 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2411	M Y . 31	F. F. Frederick.....	Salary for May, 1898.....	\$158 33
2412	"	S. W. Parr.....	"	175 00
2413	"	H. J. Barton.....	"	175 00
2414	"	Charles M. Moss.....	"	175 00
2415	"	D. K. Dodge.....	"	166 66
2416	"	L. P. Breckenridge.....	"	187 50
2417	"	David Kinley.....	"	187 50
2418	"	E. Davenport.....	"	9 83
2419	"	Arnold Tompkins.....	"	166 66
2420	"	A. P. Carman.....	"	187 50
2421	"	Walter H. Jones.....	"	100 00
2422	"	E. B. Greene.....	"	141 66
2423	"	Geo. E. Gardener.....	"	166 66
2424	"	C. C. Pickett.....	"	125 00
2425	"	Katharine L. Sharp.....	"	166 66
2426	"	Geo. T. Kemp.....	"	166 66
2427	"	George W. Myers.....	"	150 00
2428	"	E. J. Townsend.....	"	137 50
2429	"	James M. White.....	"	133 33
2430	"	Lewis A. Rhoades.....	"	141 66
2431	"	Henry H. Everett.....	"	133 33
2432	"	W. H. VanDervoort.....	"	137 50
2433	"	W. D. Pence.....	"	133 33
2434	"	H. S. Grindley.....	"	108 33
2435	"	T. A. Clark.....	"	133 33
2436	"	H. S. Piatt.....	"	100 00
2437	"	B. V. Swenson.....	"	108 33
2438	"	A. H. Daniels.....	"	108 33
2439	"	George D. Fairfield.....	"	108 33
2440	"	C. W. Tooke.....	"	108 33
2441	"	Fred A. Sager.....	"	100 00
2442	"	William Esty.....	"	108 33
2443	"	Frank Smith.....	"	100 00
2444	"	C. D. McLane.....	"	100 00
2445	"	P. G. Holden.....	"	54 16
2446	"	J. E. McGilvrey.....	"	108 33
2447	"	Seth J. Temple.....	"	100 00
2448	"	J. D. Phillips.....	"	83 33
2449	"	Violet D. Jayne.....	"	125 00
2450	"	Oscar Quick.....	"	80 00
2451	"	Edward J. Lake.....	"	70 00
2452	"	Ella H. Morrison.....	"	100 00
2453	"	George A. Huff.....	"	120 00
2454	"	W. J. Fraser.....	"	37 50
2455	"	Carlton R. Rose.....	"	80 00
2456	"	Joseph C. Blair.....	"	45 83
2457	"	Margaret Mann.....	"	75 00
2458	"	Alison M. Fernie.....	"	100 00
2459	"	Agnes S. Cook.....	"	70 00
2460	"	A. C. Howland.....	"	80 00
2461	"	Chester H. Rowell.....	"	70 00
2462	"	Geo. H. Meyer.....	"	70 00
2463	"	W. H. Kavanaugh.....	"	80 00
2464	"	J. P. Hylan.....	"	80 00
2465	"	Alice Putnam.....	"	80 00
2466	"	A. C. Burnham.....	"	90 00
2467	"	Maude W. Straight.....	"	75 00
2468	"	Charles F. Hottes.....	"	70 00
2469	"	W. C. Brenke.....	"	75 00
2470	"	C. T. Wilder.....	"	70 00
2471	"	Jessie Y. Fox.....	"	30 00
2472	"	James H. McKee.....	"	50 00
2473	"	George D. Hubbard.....	"	50 00
2474	"	H. A. Webber.....	"	50 00
2475	"	C. V. Seastone.....	"	50 00
2476	"	R. B. Ketchum.....	"	50 00
2477	"	H. V. Carpenter.....	"	50 00
2478	"	J. L. Sammis.....	"	50 00
2479	"	M. B. Hammond.....	"	50 00
2480	"	Anna Fossler.....	"	50 00
2481	"	C. B. Clark.....	"	85 00
2482	"	A. R. Curtiss.....	"	85 00
2483	"	Henry Jones.....	"	60 00
2484	"	J. H. Wilson.....	"	60 00
2485	"	D. H. Carnaham.....	"	30 00
2486	"	A. C. Hobart.....	"	30 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
2487	1898.			
2487	May 31	F. W. Schacht.....	Salary for May, 1898.....	\$30 00
2488	"	A. E. Paul.....	"	30 00
2489	"	Don Sweeney.....	"	30 00
2490	"	A. S. Williamson.....	"	10 00
2491	"	Edward G. Howe.....	"	150 00
2492	"	Lillie A. Clendenin.....	"	65 00
2493	"	R. S. Douglass.....	"	75 00
2494	"	C. B. Randolph.....	"	70 00
2495	"	C. W. Alvord.....	"	70 00
2496	"	W. L. Pillsbury.....	"	162 50
2497	"	D. McIntosh.....	"	75 00
2498	"	C. V. Millar.....	"	75 00
2499	"	R. W. Stark.....	"	50 00
2500	"	George W. Graham.....	"	100 00
2501	"	Lillie Heath.....	"	75 00
2502	"	Sue W. Ford.....	"	55 00
2503	"	L. A. Boice.....	"	55 00
2504	"	Jennie M. Laffin.....	"	45 00
2505	"	Georgia E. Hopper.....	"	30 00
2506	"	Adelaide M. Chase.....	"	25 00
2507	"	Mary T. Pierce.....	"	25 00
2508	"	W. O. Waters.....	"	20 00
2509	"	Henry J. East.....	"	40 00
2510	"	Pearl Adams.....	"	40 00
2511	"	W. R. Hoffman.....	"	37 00
2512	"	L. G. Lathrop.....	"	32 00
2513	"	J. J. Johnson.....	"	32 00
2514	"	E. A. Nelson.....	"	32 00
2515	"	Elbert E. Pound.....	"	32 00
2516	"	A. S. Golden.....	"	32 00
2517	"	Allen McGlaughlin.....	"	32 00
2518	"	Philip Schwehm.....	"	27 00
2519	"	F. J. Foote.....	"	75 00
2520	"	Joe Morrow.....	"	75 00
2521	"	E. W. Justus.....	"	50 00
2522	"	W. H. Zimmerman.....	"	60 00
2523	"	M. T. Lindsey.....	"	40 00
2524	"	J. H. Allen.....	"	40 00
2525	"	R. Uttenweiler.....	"	60 00
2526	"	Fred Atkinson.....	"	35 00
2527	"	Chas. B. Ewalt.....	"	25 00
2528	"	Champaign M. & Supply Co.....	Valves, etc.....	5 67
2529	"	D. H. Lloyd & Sons.....	Note books, paper, etc.....	14 80
2530	"	Hubbard & Sons.....	Sewer pipe, etc.....	89 30
2531	"	Mittendorf & Kiler.....	Picture frames, etc.....	49 88
2532	"	Chas. F. Witt.....	Rings, straps, etc.....	12 00
2533	"	H. Swannell.....	Toilet paper, etc.....	27 45
2534	"	A. S. Nelson & Son.....	Butter.....	1 75
2535	"	Champaign County Herald.....	Printing.....	60 43
2536	"	Champaign County Ptg. Co.....	" etc.....	67 97
2537	"	E. Barr.....	Brick.....	1 75
2538	"	N. W. Davis.....	Sand.....	1 20
2539	"	Sheldon Brick Co.....	".....	2 80
2540	"	Twin City Electric Co.....	Switches.....	1 50
2541	"	Baker & Adamson Chem. Co.....	Filter.....	7 98
2542	"	The Indiana Chemical Co.....	Acid, bottles, and cans.....	13 80
2543	"	Fuller & Fuller Co.....	Chemicals.....	19 72
2544	"	Falls Rivet & Machinery Co.....	Pulleys.....	2 72
2545	"	The Watson-Stillman Co.....	Cup packings.....	6 03
2546	"	American Society of M. E.....	Copies of paper.....	4 90
2547	"	Crosby Steam Gauge & Valve Co.....	Recorder, gauge, etc.....	96 18
2548	"	Machinists' Supply Co.....	Casting brushes.....	2 10
2549	"	Jones & Laughlins Co.....	Bolts and screws.....	2 64
2550	"	Chas. H. Besly & Co.....	Spring brass, etc.....	4 03
2551	"	Chicago Retort & Fire Br. Co.....	Brick.....	110 00
2552	"	Chas. A. Schieren & Co.....	Leather belting.....	136 20
2553	"	Joseph Wilckes.....	Econometer.....	81 00
2554	"	North Central Association.....	Fee.....	3 00
2555	"	Kinsey & Mahler Co.....	Castings.....	3 49
2556	"	Edwin H. Pierce.....	Piano box.....	2 00
2557	"	Eugene Dietzgen Co.....	Regulation paper.....	7 76
2558	"	Library Bureau.....	Book supports, etc.....	58 65
2559	"	Callaghan & Co.....	Books.....	2 25
2560	"	Houghton, Mifflin & Co.....	Book.....	25 00
2561	"	A. C. McClurg & Co.....	Books, etc.....	47 73
2562	"	Nicholas Murray Butler.....	Expenses.....	68 00

## Warrants—Concluded.

No.	Date.	To whom paid.	For what.	Amount.
2563	May 31	1898. W. T. Harris	Expenses	\$48 50
2564	"	John B. Bennett	Brick, etc.	37 55
2565	"	W. Z. Wiley	Expenses	9 30
2566	"	T. E. Howard	"	9 30
2567	"	L. J. Hackney	"	9 30
2568	"	Geo. B. Wilson	"	53 19
2569	"	C. V. Millar	"	10 00
2570	"	Eimer & Amend	Chemicals	81 91
2571	"	Odin Coal Co.	Coal	401 00
2572	"	<i>Illinois Agriculturist</i>	Publication	50 00
2573	"	J. H. Young	Expenses on <i>Technograph</i>	100 00
2574	"	Max Kaehler & Martini	Apparatus	560 06
2575	"	E. H. Renner & Bro	Hauling	46 69
2576	"	Robinson & Burr	Heating contracts, etc	652 61
2577	"	<i>The Gazette</i>	Printing, etc	152 35
2578	"	Tower Mfg & Novelty Co	Ad ders	7 89
2579	"	<i>The Illini</i>	Advertisement	125 00
2580	"	A. E. Wuesteman	Pins and medals	50 20
2581	"	Katharine L. Sharp	Expenses	18 20
2582	"	W. H. Owens	Mimeograph copies	14 00
2583	"	J. C. Sedgwick	Payment on contract	500 00
2584	June 15	B. A. Bullard	Expenses	40 30
2585	"	Alex McLean	"	59 46
2586	"	N. B. Morrison	"	58 50
2587	"	Isaac S. Raymond	"	20 05
2588	"	A. S. Draper	"	88 65
2589	"	Wm. H. Maxwell	"	100 00
2590	"	L. A. Rhoades	"	51 70
2591	"	J. E. McGilvrey	"	8 00
2592	"	Union Manufacturing Co.	Water service	500 00
2593	"	A. W. Palmer	Part sal. quarter ending May 31, '95	25 00
2594	"	Inland Publishing Co.	Engraving and printing	698 50
2595	"	T. R. Leal	Hauling and labor	135 25
2596	"	John B. Bennett	Materials and labor	326 00
2597	"	The Chesapeake & Ohio Co.	Coal	214 91
2598	"	Thomas Naughton	Photos	38 90
2599	"	<i>Champaign Co. Herald</i>	Printing	36 75
2600	"	The Kny-Scheerer Co.	Model of brain	70 60
2601	"	J. E. Armstrong	Expenses	39 08
2602	"	Pitkin & Brooks	China ware, forks, etc.	255 53
2603	"	Miles Newberry	Part salary for June	25 00
2604	"	L. Goodman	Services	26 40
2605	"	C. H. Baddeley	Provisions	42 50
2606	"	J. M. Chase	Painting President's house	131 00
2607	"	Wm. H. Armstrong	Instruments	22 85
2608	"	Bausch & Lomb Optical Co	Instruments, etc	82 78
2609	"	P. Blakiston Son & Co.	Books	11 50
2610	"	<i>The Gazette</i>	Printing	350 44
2611	"	W. S. Royal	Oil	2 60
2612	"	Standard Oil Co.	"	21 88
2613	"	H. M. Shuck & Co.	Nails, etc	4 00
2614	"	Champaign Tile Co.	Tile	82 84
2615	"	Academy of Nat. Science, Phila	Publication	5 00
2616	"	The Burrows Bros. Co.	Book	7 00
2617	"	N. O. Nelson M'g Co	Pipe and fittings	17 58
2618	"	Murphy Iron Works	Governor shaft	2 50
2619	"	Schaffer & Budenberg	Recording gauge, etc	190 29
2620	"	Falls Rivet & Machinery Co.	Pulleys	139 52
2621	"	Illinois Electric Co.	Battery cells	21 25
2622	"	Machinists Supply Co.	Waste	7 31
2623	"	Wadham's Oil and Grease Co.	Oil	12 29
2624	"	Callaghan & Co.	Book	3 50
2625	"	The Lukenheimer Co.	Indicator cock, etc.	10 47
2626	"	Chas. Strelinger Co.	Tools, etc.	10 03
2627	"	Adam Cook's Sons	Oil and grease	51 45
2628	"	Eimer & Amend	Tubes, etc	40 50
2629	"	Western Bank Note & Eng. Co.	Plates and diplomas	265 00
2630	"	J. W. Olcott & Co.	Induction coil	9 00
2631	"	Corning & Co.	Alcohol	32 57
2632	"	Lawton & Co.	Duplicator and refilling	9 15
2633	"	Miller & Leming	Tripod legs and stands	5 05
2634	"	A. E. Wuesteman	Oil, etc.	4 30
2635	"	E. S. Golden	Labor and materials	5 65
2636	"	W. I. Saffell & Co.	Frames	7 80
2637	"	E. G. Howe	Expenses	3 04
2638	"	E. O. Vaile	Advertising	5 50

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
2639	June 15	C. W. Rolfe.....	Camera.....	\$7 00
2640	"	A. W. Mumford.....	Advertising.....	3 60
2641	"	Ozias Riley.....	Stamps.....	220 00
2642	"	W. W. Lindley.....	Postage.....	125 00
2643	"	E. H. Renner & Bro.....	Hauling.....	66 62
2644	"	S. W. Shattuck, business mgr.	Expressage.....	53 40
2645	"	"	"	41 05
2646	"	"	Freightage.....	143 24
2647	"	"	Sundry items.....	59 15
2648	"	C. T. Wilder.....	Photos and Paper.....	3 00
2649	"	S. W. Shattuck, business mgr.	Pay rolls of men, May, 1898.....	1,305 86
2650	June 30	"	Pay rolls of students, May, 1898.....	790 12
2651	"	A. S. Draper.....	Salary, June, 1898.....	555 33
2652	"	T. J. Burrill.....	"	200 00
2653	"	S. W. Shattuck, business mgr.	"	166 66
2654	"	N. C. Ricker.....	"	191 60
2655	"	Ira O. Baker.....	"	187 50
2656	"	S. A. Forbes.....	"	83 33
2657	"	C. W. Rolfe.....	"	175 00
2658	"	D. McIntosh.....	"	50 00
2659	"	A. N. Talbot.....	"	175 00
2660	"	A. W. Palmer.....	"	175 00
2661	"	F. F. Frederick.....	"	158 33
2662	"	S. W. Parr.....	"	175 00
2663	"	H. F. Barton.....	"	175 00
2664	"	C. M. Moss.....	"	175 00
2665	"	D. K. Dodge.....	"	166 66
2666	"	L. P. Breckenridge.....	"	187 50
2667	"	D. Kinley.....	"	187 50
2668	"	E. Davenport.....	"	95 83
2669	"	A. Tompkins.....	"	166 66
2670	"	A. P. Carman.....	"	187 50
2671	"	W. H. Jones.....	"	100 00
2672	"	E. B. Greene.....	"	141 66
2673	"	Geo. E. Gardener.....	"	166 66
2674	"	C. C. Pickett.....	"	125 00
2675	"	Katharine L. Sharp.....	"	166 66
2676	"	Geo. T. Kemp.....	"	166 66
2677	"	Geo. W. Myers.....	"	150 00
2678	"	E. J. Townsend.....	"	137 50
2679	"	J. M. White.....	"	133 33
2680	"	L. A. Rhoades.....	"	141 66
2681	"	H. H. Everett.....	"	133 33
2682	"	W. H. Van Dervoort.....	"	137 50
2683	"	W. D. Pence.....	"	133 33
2684	"	H. S. Grindly.....	"	108 33
2685	"	T. A. Clark.....	"	133 33
2686	"	H. S. Platt.....	"	100 00
2687	"	B. V. Swensen.....	"	108 33
2688	"	A. H. Daniels.....	"	108 33
2689	"	G. D. Fairfield.....	"	108 33
2690	"	C. W. Tooke.....	"	108 33
2691	"	F. A. Sager.....	"	100 00
2692	"	William Esty.....	"	108 33
2693	"	Frank Smith.....	"	100 00
2694	"	C. D. McLane.....	"	100 00
2695	"	P. G. Holden.....	"	54 16
2696	"	J. E. McGilvrey.....	"	108 33
2697	"	Seth J. Temple.....	"	100 00
2698	"	J. D. Phillips.....	"	53 33
2699	"	Violet D. Jayne.....	"	125 00
2700	"	Oscar Quick.....	"	80 00
2701	"	E. J. Lake.....	"	70 00
2702	"	Ella H. Morrison.....	"	100 00
2703	"	Geo. A. Huff.....	"	120 00
2704	"	Wm. J. Fraser.....	"	37 50
2705	"	C. R. Rose.....	"	80 00
2706	"	J. C. Blair.....	"	45 83
2707	"	Margaret Mann.....	"	75 00
2708	"	Alison M. Fernie.....	"	100 00
2709	"	Agnes S. Cook.....	"	70 00
2710	"	A. C. Howland.....	"	80 00
2711	"	Chester H. Rowell.....	"	70 00
2712	"	Geo. H. Meyer.....	"	70 00
2713	"	W. H. Kavanaugh.....	"	80 00
2714	"	J. P. Hylan.....	"	80 00
2715	"	Alice Putnam.....	"	80 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2716	June 30	A. C. Burnham.....	Salary, June, 1898.....	\$90 00
2717	"	Maude W. Straight.....	"	75 00
2718	"	C. F. Hottes.....	"	70 00
2719	"	W. C. Brenke.....	"	75 00
2720	"	C. T. Wilder.....	"	70 00
2721	"	Jessie Y. Fox.....	"	30 00
2722	"	J. H. McKee.....	"	50 00
2723	"	G. D. Hubbard.....	"	50 00
2724	"	H. A. Webber.....	"	50 00
2725	"	C. V. Seastone.....	"	50 00
2726	"	E. B. Ketchum.....	"	50 00
2727	"	H. V. Carpenter.....	"	50 00
2728	"	J. L. Sammis.....	"	50 00
2729	"	M. B. Hammond.....	"	50 00
2730	"	Anna Fossler.....	"	50 00
2731	"	C. B. Clark.....	"	85 00
2732	"	A. R. Curtiss.....	"	85 00
2733	"	J. H. Wilson.....	"	60 00
2734	"	Henry Jones.....	"	60 00
2735	"	D. H. Carnahan.....	"	30 00
2736	"	A. C. Hobart.....	"	30 00
2737	"	F. W. Schacht.....	"	30 00
2738	"	A. E. Paul.....	"	30 00
2739	"	Don Sweeney.....	"	30 00
2740	"	A. S. Williamson.....	"	10 00
2741	"	E. G. Howe.....	"	150 00
2742	"	Lillie A. Clendenin.....	"	65 00
2743	"	R. S. Douglas.....	"	75 00
2744	"	C. B. Randolph.....	"	70 00
2745	"	C. W. Alvord.....	"	70 00
2746	"	W. L. Pillsbury.....	"	162 50
2747	"	S. W. Shattuck.....	Salary, 3 months, to June 30, 1898.....	100 00
2748	"	D. McIntosh.....	Salary, June, 1898.....	75 00
2749	"	C. V. Millar.....	"	75 00
2750	"	R. W. Stark.....	"	50 00
2751	"	Geo. W. Graham.....	"	100 00
2752	"	Lillie Heath.....	"	75 00
2753	"	Sue W. Ford.....	"	55 00
2754	"	L. A. Boice.....	"	55 00
2755	"	Jennie M. Laffin.....	"	45 00
2756	"	Georgia E. Hopper.....	"	30 00
2757	"	Adelaide M. Chase.....	"	25 00
2758	"	Mary T. Pierce.....	"	25 00
2759	"	W. O. Waters.....	"	20 00
2760	"	F. J. Foote.....	"	75 00
2761	"	Joe Mo. row.....	"	75 00
2762	"	E. W. Justus.....	"	50 00
2763	"	W. H. Zimmerman.....	"	60 00
2764	"	M. T. Lindsey.....	"	40 00
2765	"	J. H. Allen.....	"	40 00
2766	"	R. Uttenweiler.....	"	60 00
2767	"	Fred Atkinson.....	"	35 00
2768	"	Chas. B. Ewalt.....	"	25 00
2769	"	Henry J. East.....	"	40 00
2770	"	Pearl Adams.....	"	40 00
2771	"	W. R. Hoffman.....	"	37 00
2772	"	L. G. Lathrop.....	"	32 00
2773	"	J. J. Johnson.....	"	32 00
2774	"	E. A. Nelson.....	"	32 00
2775	"	Elbert E. Pound.....	"	32 00
2776	"	A. S. Golden.....	"	32 00
2777	"	Allen McGlaughlin.....	"	32 00
2778	"	Philip Schwelm.....	"	27 00
2779	"	Lucy L. Flower.....	Expenses.....	30 00
2780	"	L. P. Breckenridge.....	"	15 60
2781	"	J. T. Wolcott.....	Services.....	70 00
2782	"	Westinghouse Elec. & Mfg. Co.....	Generator.....	105 00
2783	"	J. Manz & Co.....	View.....	1 93
2784	"	Engineering News Pub. Co.....	Advertisement.....	6 88
2785	"	West Publishing Co.....	Book.....	6 00
2786	"	Callaghan & Co.....	"	4 00
2787	"	Edward Thompson Co.....	"	3 00
2788	"	The Florence Co.....	"	2 40
2789	"	F. F. Frederick.....	Expenses.....	9 95
2790	"	Library Bureau.....	Account book and slips.....	7 00
2791	"	J. C. Sedgwick.....	Payment on contract.....	934 60

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
2792	June 30	D. Appleton & Co.....	Books .....	\$12 65
2793	"	Garden City Sand Co.....	Quartz .....	6 27
2794	"	Bickford Drill & Tool Co.....	Attachment .....	20 00
2795	"	Keuffel & Esser Co.....	Measuring tape, etc.....	10 02
2796	"	J. D. Green.....	Labor and material .....	51 67
2797	"	Chas. A. Schieren & Co.....	Extracting oil from belting.....	8 87
2798	"	A. C. McClurg & Co.....	Envelopes, etc.....	16 93
2799	"	The Lunkenheimer Co.....	Fittings .....	6 69
2800	"	Robinson & Burr .....	" .....	52 46

## STATE LABORATORY OF NATURAL HISTORY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July 15	S. A. Forbes.....	Expenses.....	\$34 34
2	"	Claiser Bros.....	Photographs.....	10 00
3	"	O. D. Havard.....	Labor.....	9 50
4	"	W. C. Brenke.....	Work.....	7 00
5	"	Ed Gill.....	Coal.....	4 00
6	"	Ginn & Co.....	Subscriptions.....	9 00
7	"	H. W. Rokker.....	Printing and binding.....	64 59
8	"	E. H. Sargent & Co.....	Corks.....	2 75
9	"	Bausch & Lomb Opt'l Co.....	Boxes.....	1 69
10	"	Charles A. Hart.....	Expenses.....	2 95
11	"	E. V. Bronson.....	Work.....	10 13
12	"	<i>The Gazette</i> .....	Printing circulars, etc.....	9 75
13	"	National R'y Pub. Co.....	Railway Guide, 1897.....	5 00
14	"	H. C. Forbes.....	Petty expenses.....	2 72
15	"	Goes Lithographing Co.....	Printing warrant book.....	8 33
16	"	Library Bureau.....	Gummed labels.....	2 00
17	"	W. H. Allen.....	Paints, oils, etc.....	7 95
18	"	Miles Newberry.....	Labor.....	1 50
19	"	D. S. Howard.....	Repairs and labor.....	6 60
20	"	Mat Farman.....	Labor.....	2 25
21	"	Starr & Cogswell.....	Fittings, etc.....	5 77
22	"	Charles T. Wilder.....	Blue prints.....	9 30
23	July 31	Frank Smith.....	Salary, July, 1897.....	100 00
24	"	Charles A. Kofoid.....	".....	108 33
25	"	H. C. Forbes.....	".....	91 66
26	"	Charles A. Hart.....	".....	75 00
27	"	Mary J. Snyder.....	".....	75 00
28	"	C. C. Adams.....	".....	50 00
29	"	Harlen Scott.....	".....	15 00
30	"	Frederic W. Schacht.....	".....	60 00
31	"	Miles Newberry.....	".....	50 00
32	"	Y. Zmrhal.....	".....	30 00
33	"	Lydia M. Hart.....	Drawings.....	12 60
34	"	Marjorie D. Forbes.....	Work in library.....	20 00
35	"	Bausch & Lomb Opt'l Co.....	Vials, circles, etc.....	13 53
36	"	C. B. Holzgrafe.....	Refrigerator, etc.....	17 30
37	"	Richards & Co.....	Tubes.....	3 06
38	"	C. H. Besly & Co.....	Copper letters, etc.....	1 50
39	"	Macmillan & Co.....	Subscription.....	6 00
40	Aug. 14	Franklin Eng. and Electro. Co.....	Zinc cuts.....	25 57
41	"	Pantagraph Pr'ing and Sta. Co.....	Paper boxes.....	7 50
42	"	Montgomery Ward & Co.....	Curtains.....	13 00
43	"	A. R. Curtiss.....	Bicycle.....	26 15
44	"	S. A. Forbes.....	Expenses.....	25 00
45	"	Paul Klineksieck.....	Publications.....	5 25
46	"	S. W. Shattuck, business mgr.....	Sundry items.....	38 80
47	"	J. W. Critchley.....	Pins.....	6 97
48	"	Pantagraph Pr'ing and Sta. Co.....	Gummed paper.....	1 95
49	"	E. H. Sargent & Co.....	Corks and vials.....	14 00
50	"	D. Appleton & Co.....	Book.....	1 35
51	Aug. 24	George F. Lasher.....	Subscription, 1897.....	2 00
52	"	American Entom. Society.....	Subscription.....	4 00
53	"	J. M. Schilling.....	Groceries.....	11 35
54	"	Charles Foster.....	Lettering.....	6 00
55	"	<i>The Gazette</i> .....	Mounting board.....	1 80
56	"	George W. Parker & Son.....	Bottle racks, etc.....	20 47

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
57	Aug. 31	S. A. Forbes.....	Salary, 3 months, to date.....	\$62 50
58	"	H. C. Forbes.....	Salary, August, 1897.....	91 67
59	"	Charles A. Hart.....	"	75 00
60	"	Mary J. Snyder.....	"	75 00
61	"	C. A. Kofoid.....	"	108 33
62	"	Frank Smith.....	"	100 00
63	"	C. C. Adams.....	"	50 00
64	"	F. W. Schacht.....	"	60 00
65	"	Y. Zmrhal.....	" and expenses...	53 46
66	"	Miles Newberry.....	"	50 00
67	"	Harlen Scott.....	"	15 00
68	"	Marjorie D. Forbes.....	Work in library.....	9 70
69	"	E. V. Bronson.....	Labor.....	8 25
70	Sept. 15	R. Freidlander & Son.....	Books.....	105 60
71	"	C. A. Kofoid.....	Expenses.....	25 00
72	"	S. W. Shattuck, business mgr.	Miscellaneous items.....	40 59
73	"	<i>Champaign County Herald</i> .....	Printing.....	13 60
74	"	Keene & DeLang.....	Copy book.....	2 50
75	"	A. C. McClurg & Co.....	Books.....	5 01
76	"	Bausch & Lomb Opt'l Co.....	Forceps, etc.....	10 41
77	"	Heliotype Printing Co.....	Copies of plate.....	41 25
78	"	J. W. Critchley.....	Insect pins.....	6 88
79	"	J. C. Winship Co.....	Printing bulletins.....	133 80
80	"	Lydia M. Hart.....	Drawings.....	39 45
81	"	H. C. Forbes.....	Petty expenses.....	6 68
82	Sept. 30	H. C. Forbes.....	Salary, September, 1897.....	91 67
83	"	C. A. Kofoid.....	"	108 33
84	"	C. A. Hart.....	"	83 33
85	"	Mary J. Snyder.....	"	75 00
86	"	C. C. Adams.....	"	50 00
87	"	Harlen Scott.....	"	15 00
88	"	R. W. Braucher.....	Work.....	33 00
89	"	D. S. Howard.....	Row boat.....	23 27
90	"	Yaroslav Zmrhal.....	Salary and expenses.....	27 78
91	"	B. Zelle.....	Linoleum.....	2 67
92	"	Miles Newberry.....	Salary, September, 1897.....	50 00
93	"	Mrs. Miles Newberry.....	Work.....	2 50
94	"	H. G. Bruning.....	Lumber.....	7 53
95	"	E. W. Wheeler.....	Guide book.....	1 00
96	"	W. H. Meyer.....	Meats.....	2 00
97	"	J. M. Schilling.....	Supplies.....	12 40
98	"	Macmillan Co.....	Book.....	3 10
99	"	Frank Smith.....	Expenses.....	6 06
100	"	Fred Atkinson.....	Labor.....	3 00
101	Oct. 15	D. H. Lloyd & Son.....	Letter files, etc.....	8 45
102	"	E. F. Hartman.....	Letter heads.....	5 00
103	"	Open Court Pub Co.....	Publications.....	1 60
104	"	Microscopical Publishing Co.....	Subscription.....	2 00
105	"	Central Union Telephone Co.....	Services to January 1, 1898.....	5 00
106	"	R. S. Wilber.....	Drayage.....	2 47
107	"	S. A. Forbes.....	Expenses.....	25 10
108	"	Starr & Cogswell.....	Labor and materials.....	11 78
109	"	Western Electric Co.....	Bunsen jars.....	3 98
110	"	Maltby & Wallace Co.....	Work on gear patterns, etc.....	9 96
111	"	Brown & Sharpe Mfg Co.....	Bevel gears.....	6 69
112	"	Mechanical Engineering Shops.....	Labor and material on centrifugal.....	100 78
113	"	Montgomery Ward & Co.....	Binding books.....	67 15
114	Oct. 30	C. A. Kofoid.....	Salary, October, 1897.....	108 33
115	"	H. C. Forbes.....	"	91 66
116	"	Mary J. Snyder.....	"	75 00
117	"	C. A. Hart.....	"	83 33
118	"	Lydia M. Hart.....	" to Sept. 30, 1897.....	12 50
119	"	Miles Newberry.....	" Oct., 1897.....	25 00
120	"	Harlen Scott.....	"	15 00
121	"	R. W. Braucher.....	"	27 00
122	"	<i>The Gazette</i> .....	Printing circulars.....	1 50
123	"	Houghton, Mifflin & Co.....	Books.....	50 00
124	"	S. Raymond Roberts.....	Manual of Conchology.....	6 00
125	"	Watson Faulkner.....	Alcohol.....	2 12
126	"	August Goese.....	Apparatus.....	2 50
127	"	Bausch & Lomb Optical Co.....	Scissors, pipettes, etc.....	5 99
128	"	Wm. Wesley & Son.....	Books.....	6 70
129	"	H. E. Summers.....	Preparing exhibit, etc.....	46 00
130	"	James Ingis.....	Photographs.....	35 80
131	"	S. A. Forbes.....	Expenses.....	33 00
132	"	H. C. Forbes.....	Petty expenses.....	5 80
133	"	W. D. Burton.....	Labor.....	1 25
134	"	Chas. T. Wilder.....	Negative and print.....	1 50



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
135	Oct. 30	S. W. Shattuck, Business M'gr	Sundry items	\$15 50
136	"	Geo. W. Parker & Son	Remodeling case	9 50
137	"	Mittendorf & Kiler	Picture frames, etc.	32 33
138	"	Franklin Engr'v'g & Electro. Co	Zinc cuts	46 82
139	"	S. A. Forbes	Salary, 3 months, to date	62 50
140	"	H. C. Forbes	Nov., 1897.	91 66
141	"	C. A. Hart	"	83 33
142	"	Mary J. Snyder	"	75 00
143	"	Lydia M. Hart	Oct., 1897.	25 00
144	"	Harlan Scott	Nov., 1897.	15 00
145	"	C. A. Kofoid	"	108 33
146	"	Miles Newberry	and part of Oct	29 00
147	"	Clauser Bros	Photographs	3 50
148	"	W. H. Allen	Bottles, oils, chemicals, etc.	35 00
149	"	G. W. Geary	Copper tank, etc.	2 45
150	"	Geo. E. McHose	Labor	2 00
151	"	Montgomery Ward & Co.	Book binding	86 49
152	"	W. H. Rokker	Printing and binding	58 75
153	"	W. W. Lindley	Stamped envelopes	10 90
154	"	Franklin Engr'v'g & Electro. Co	Zinc cuts	13 10
155	"	Lydia M. Hart	Drawings	25 00
156	"	Western Bank Note Engrav. Co	Parchment paper	2 00
157	"	H. C. Forbes	Expenses	2 70
158	"	Keen & DeLang	Blank book	6 00
159	"	Bausch & Lomb Optical Co.	Brass discs, etc.	16 65
160	"	W. W. Lindley	Stamps	8 00
161	"	Henry M. Skinner	Subscription	1 00
162	"	J. M. Dent & Co.	"	3 52
163	"	Ginn & Co.	"	3 00
164	"	Library Bureau	Labels and cards	6 30
165	"	R. S. Wilber	Drayage	8 89
166	"	August Geise	Filter	31 50
167	"	Esty Wire Works Co.	Wire cloth	6 00
168	"	Univ. of Illinois repair shop	Labor on centrifugal	17 44
169	"	S. W. Shattuck, business m'gr	Sundry items	17 43
170	"	H. C. Forbes	Salary for Dec., 1897.	91 66
171	"	C. A. Kofoid	"	108 33
172	"	Chas. A. Hart	"	83 33
173	"	C. A. Adams	"	25 00
174	"	Mary J. Snyder	"	75 00
175	"	Miles Newberry	"	25 00
176	"	Harlan Scott	"	15 00
	1898.			
177	Jan. 15	W. W. Lindley	Postag- stamps	36 40
178	"	D. H. Lloyde & Son	Ink, pens, etc.	1 40
179	"	W. T. Falconer Mfg Co.	Blocks for mounting insects	33 00
180	"	Montgomery Ward & Co.	Registers	11 25
181	"	Geo. W. Parker & Son	Bottle racks	13 20
182	"	Western Union Telegraph Co.	Telegrams for Dec., 1897	4 27
183	"	Chas. W. Smiley	Subscription	1 00
184	"	Wm. Wesley & Son	Foreign publications	4 37
185	"	E. Freidlander & Son	"	47 58
186	"	J. C. Winship Co.	Printing bulletins	215 15
187	"	Franklin Engr'v'g & Electro. Co	Zinc cuts	15 60
188	"	V. W. Shuck	Tin forms	2 00
189	"	Alfred L. Butz	Cork slabs	2 52
190	"	Cambridge Botanic'l Supply Co	Labels	1 50
191	"	L. S. Poster	Copy of the Auk	3 00
192	"	C. A. Hart	Expenses	19 25
193	Jan. 31	C. A. Kofoid	Salary for Jan., 1898	108 33
194	"	H. C. Forbes	"	91 66
195	"	C. A. Hart	"	83 33
196	"	Mary J. Snyder	"	75 00
197	"	C. C. Adams	"	25 00
198	"	Miles Newberry	"	25 00
199	"	Lydia M. Hart	"	5 48
200	"	Harlan Scott	"	25 00
201	Feb. 14	Phillips Bros	Labor	34 80
202	"	Lydia M. Hart	Drawings	27 30
203	"	Bausch & Lomb Optical Co.	Subscription	1 00
204	"	Chicago Legal News Co	Revised statutes of Illinois	4 00
205	"	Lea Bros. & Co	Subscription for 1898	4 00
206	"	Mittendorf & Kiler	Cutting frames	1 25
207	"	Champaign County Herald	Cards and paper	8 85
208	"	F. K. Robeson & Bro.	Rugs, matting, etc.	36 40
209	"	I. M. Henninger	Coal	4 60

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
210	Feb. 25	Geo. W. Parker & Son.....	Walnut box.....	\$1 25
211	"	W. W. Lindley .....	Envelopes.....	11 08
212	"	H. C. Forbes.....	Expenses.....	4 16
213	"	Walker & Mulliken.....	Cleaning furniture.....	1 25
214	"	S. A. Forbes.....	Salary, 3 months to date	62 50
215	"	C. A. Kofoid.....	for Feb., 1898.....	108 33
216	"	H. C. Forbes.....	"	91 66
217	"	Chas. A. Hart.....	"	83 33
218	"	Mary J. Snyder.....	"	75 00
219	"	C. C. Adams.....	"	25 00
220	"	Miles Newberry.....	"	25 00
221	"	Harlen Scott.....	"	20 00
222	"	R. Friedlander & Son.....	Publications.....	67 13
223	"	Karl J. Trubner.....	Books.....	10 00
224	"	Wm. Wesley & Son.....	Proceedings Zoological Society	3 00
225	"	K. F. Koehler.....	Periodicals.....	3 00
226	"	Bernard Quaritch.....	Publications.....	12 00
227	"	S. W. Shattuck, business m'gr	Expressage, etc.....	13 75
228	March 15	The Kny-Scheerer Co.....	Filters.....	2 20
229	"	Phillips Bros.....	Printing.....	9 75
230	"	S. A. Forbes.....	Expenses.....	93 20
231	"	Western Union Telegraph Co.	Telegrams.....	7 19
232	"	E. H. Sargent.....	Oxide.....	1 15
233	"	Bausch & Lomb Optical Co.....	Eye shades, etc.....	2 04
234	"	G. W. Parker & Son.....	Catalogue case, etc.....	47 97
235	"	W. W. Lindley, P. M.....	Envelopes and stamps	29 90
236	"	Ginn & Co.....	Journal of Morphology.....	9 00
237	"	The Entom Society of Ontario	Canadian Entomologist.....	1 00
238	"	The Cyclopaedia Pub. Co.....	Cyclopaedia of Am. Biographies.	7 00
239	"	Lydia M. Hart.....	Drawing.....	28 00
240	"	Lawton & Co.....	Barlock ribbon.....	1 50
241	"	H. C. Forbes.....	Atomizers, book, etc.....	2 08
242	March 31	C. A. Kofoid.....	Salary, March, 1898.....	108 33
243	"	Chas. A. Hart.....	"	83 33
244	"	H. C. Forbes.....	"	91 66
245	"	Mary J. Snyder.....	"	75 00
246	"	C. C. Adams.....	"	25 00
247	"	Harlen Scott.....	"	20 00
248	"	Miles Newberry.....	"	25 00
249	April 15	Ginn & Co.....	Book.....	4 00
250	"	Bernard Quaritch.....	Publications.....	9 80
251	"	William Wesley & Son.....	"	26 06
252	"	M. l'Administrateur des Arch- ives de Parasitologie.....	"	6 40
253	"	H. W. Rokker.....	Printing.....	51 70
254	"	<i>The Gazette</i> .....	and binding.....	8 00
255	"	E. H. Sargent & Co.....	Chemicals.....	2 85
256	"	<i>Champaign County Herald</i> .....	Manilla paper and envelopes.....	18 98
257	"	W. W. Lindley.....	Stamps.....	13 00
258	"	Blomgren Bros. & Co.....	Reproductions of diagrams, etc	1 10
259	"	Eugene Dietzgen & Co.....	Paper.....	1 60
260	"	Henry Trevett.....	Welsbach lamps, tubing, etc	15 05
261	"	R. S. Wilber.....	Hauling, etc.....	9 41
262	"	Columbia Typewriter Mfg Co.	Ribbons.....	4 50
263	"	J. M. Chase.....	Repairing.....	42 57
264	"	Knowlton & Bennett.....	Glass pins.....	2 25
265	"	C. A. Hart.....	Dip-nets.....	2 05
266	"	Walker & Mulliken.....	Chairs.....	11 50
267	"	Western Union Telegraph Co.	Telegrams.....	1 47
268	April 30	C. A. Kofoid.....	Salary, April, 1898.....	108 33
269	"	H. C. Forbes.....	"	91 66
270	"	Charles A. Hart.....	"	83 33
271	"	Mary J. Snyder.....	"	75 00
272	"	Charles C. Adams.....	"	62 50
273	"	E. B. Forbes.....	Salary, half March and April, 1898.	105 00
274	"	Lydia M. Hart.....	Labor and material.....	40 69
275	"	Harlen Scott.....	Salary, April, 1898.....	20 00
276	"	Miles Newberry.....	"	25 00
277	"	E. H. Sargent & Co.....	Vials.....	6 95
278	"	R. W. Mills.....	Labor.....	3 00
279	"	H. D. Oldham.....	Putty.....	5 61
280	"	Central Union Telephone Co.	Rental and services.....	11 75
281	"	E. B. Forbes.....	Laboratory expenses.....	6 47
282	"	S. W. Shattuck, business mgr.	Expenses, etc.....	15 75
283	"	H. C. Forbes.....	Petty expenses.....	1 94
284	May 31	C. C. Adams.....	Salary, May, 1898.....	37 50

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
285	May 31	Lydia M. Hort.....	Salary, May, 1898.....	\$36 40
286	"	Harlen Scott.....	".....	20 00
287	"	Mary J. Snyder.....	".....	75 00
288	"	Chas. A. Hart.....	".....	83 33
289	"	H. C. Forbes.....	".....	91 66
290	"	S. A. Forbes.....	Salary, quarter ending May 31.....	62 50
291	"	H. E. Summers.....	Services.....	75 00
292	"	W. W. Lindley.....	Postage.....	19 90
293	"	H. C. Forbes.....	Petty expenses.....	3 60
294	"	The Prescott Chemical Co.....	Carbolum.....	2 50
295	"	T. H. Trevett.....	Hardware.....	2 85
296	"	Keen & De Lang.....	Copy book.....	4 00
297	"	Champaign Cycle Co.....	Tire.....	4 00
298	"	S. E. Cassino.....	Book.....	2 00
299	"	Bausch & Lomb Optical Co.....	Bulbs and powder.....	1 02
300	"	J. W. Critchley.....	Pins.....	3 48
301	"	Miles Newberry.....	Salary, May, 1898.....	25 00
302	"	C. A. Kofoid.....	".....	108 33
303	"	Central Rubber Supply Co.....	Hose, coupling and clamps.....	5 85
304	"	Chas. A. Hart.....	Expenses.....	6 51
305	"	J. D. Breene.....	Funnel.....	2 00
306	"	E. B. Forbes.....	Expenses.....	18 61
307	"	E. H. Sargent & Co.....	Rubber caps.....	2 56
308	"	E. B. Forbes.....	Salary, May, 1898.....	64 20
309	"	E. O. Vaile.....	Subscription.....	1 50
310	"	<i>The Nautilus</i> .....	".....	1 00
311	"	H. E. Hooper.....	Books.....	19 00
312	"	Chas. F. Hottes.....	".....	20 16
313	"	Ward Bros.....	Bookbinding.....	54 12
314	"	Dulan & Co.....	Papers (Nat. Hist.).....	20 51
315	"	William Wesley & Son.....	Books.....	14 34
316	"	S. A. Forbes.....	Expenses.....	253 41
317	"	H. E. Parker.....	Bottle racks, etc.....	13 70
318	"	William Wood & Co.....	Publication.....	5 00
319	"	A. C. McClurg & Co.....	Books.....	2 38
320	"	Daniel Appleton & Co.....	".....	1 20
321	"	<i>Science</i> .....	Subscription.....	5 00
322	"	<i>Popular Science News</i> .....	".....	2 00
323	"	Bausch & Lomb Optical Co.....	Laboratory furnishings.....	6 34
324	"	Robinson & Burr.....	Brass rings.....	3 00
325	"	Henry J. Green.....	Instruments.....	28 27
326	"	H. Swannell.....	Glue, etc.....	1 05
327	"	T. H. Trevett.....	Rubber tubing.....	1 80
328	"	J. W. Critchley.....	Pins.....	13 50
329	"	Hubbard & Sons.....	Labor.....	1 15
330	"	Franklin Educational Co.....	Ribbon, etc.....	1 00
331	"	Whitall, Tatum & Co.....	Anatomical jars.....	23 75
332	"	D. H. Lloyd & Son.....	Stationery, etc.....	7 10
333	"	J. W. Critchley.....	Pins and postage.....	16 98
334	"	<i>The Gazette</i> .....	Printing, etc.....	25 15
335	"	Alfred L. Butz.....	Corks.....	3 78
336	"	S. W. Shattuck, Business Mgr.....	Expressage, etc.....	26 92
337	"	Friedrich Cohen.....	Books.....	5 28
338	"	R. Friedlander & Son.....	Publications.....	121 46
339	"	William Wesley & Son.....	Books.....	15 40
340	"	John Wheldon & Co.....	".....	22 31
341	"	T. H. Trevett.....	Thermometer case.....	2 50
342	"	S. A. Forbes.....	Expenses.....	22 34
343	"	W. W. Lindley.....	Stamps.....	12 90
344	"	Corning & Co.....	Alcohol.....	16 29
345	"	Chemical Dept U. of I.....	and chemicals.....	16 15
346	"	H. C. Forbes.....	Expenses.....	1 90
347	"	Ed. F. Hartman.....	Letter heads.....	7 00
348	"	Mittendorf & Kiler.....	Chairs and door mats.....	2 80
349	"	H. E. Parker.....	Labor.....	2 10
350	"	National Railway Pub. Co.....	Railway guide.....	5 00
351	"	J. M. Fisher.....	Labor.....	1 87
352	"	E. O. Vaile.....	Publication.....	1 00
353	"	<i>The Entomological News</i> .....	Subscription.....	1 00
354	"	J. H. Studer.....	Books.....	17 80
355	"	S. Raymond Roberts.....	".....	6 00
356	"	Gustav E. Stechert.....	Foreign literature.....	129 12
357	June 30	H. C. Forbes.....	Salary, June, 1898.....	91 66
358	"	C. A. Kofoid.....	".....	108 33
359	"	E. B. Forbes.....	".....	70 00
360	"	H. E. Summers.....	".....	75 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
361	June 30	C. C. Adams .....	Salary, June, 1898.....	\$50 00
362	"	C. A. Hart .....	" .....	83 33
363	"	Mary J. Snyder .....	" .....	75 00
364	"	Lydia M. Hart .....	" .....	41 65
365	"	Miles Newberry.....	Part salary for June, 1898 .....	25 00
366	"	Harlen Scott.....	Salary, June, 1898.....	20 00
367	"	H. E. Parker.....	Repairing insectory .....	13 44
368	"	Hubbard & Sons .....	Copper tank .....	9 75
369	"	Cunningham Bros .....	Books .....	42 19
370	"	H. J. Green .....	Merchandise .....	2 00
371	"	Central Rubber Supply Co.....	" .....	7 00
372	"	B. F. Gump .....	Bolting cloth.....	11 94
373	"	Geo. B. Holzgrafe .....	Hardware .....	9 93
374	"	Kny-Scheerer Co.....	Chemicals .....	5 00
375	"	Starr & Coggswell Co .....	Labor and materials.....	8 86

## AGRICULTURAL EXPERIMENT STATION WARRANTS.

No.	Date.	To whom.	For what.	Amount
1	July 31	T. J. Burrill .....	Salary for July, 1897.....	\$50 00
2	"	W. L. Pillsbury .....	" .....	25 00
3	"	E. Davenport.....	" .....	91 66
4	"	D. McIntosh.....	" .....	25 00
5	"	P. G. Holden.....	" .....	50 00
6	"	G. P. Clinton .....	" .....	83 33
7	"	C. G. Hopkins .....	" .....	125 00
8	"	J. C. Blair .....	" .....	41 66
9	"	W. J. Fraser.....	" .....	33 33
10	"	Kate McIntyre .....	" .....	50 00
11	"	S. W. Shattuck .....	" .....	16 66
12	"	T. J. Mairs.....	" .....	33 33
13	"	Hubbard & Sons.....	Hardware .....	67 35
14	"	S. M. Marble.....	Rock salt.....	1 75
15	"	E. Henry .....	Soda .....	1 50
16	"	Creamery Package Mfg. Co .....	Jars, etc.....	17 50
17	"	Knowlton & Bennett.....	Leads, oils, etc.....	6 65
18	"	Walker & Mulliken .....	Chairs, tables.....	3 30
19	"	T. H. Trevett.....	Hardware .....	8 63
20	"	E. Henry .....	Brooms, etc.....	4 65
21	"	J. F. Miller .....	Whips, etc.....	5 80
22	"	Campbell & Spaulding .....	Horse-shoeing, etc.....	32 20
23	"	H. Swannell.....	Drugs, etc.....	20 93
24	"	C. H. Baddeley.....	Sauce dishes.....	5 50
25	"	V. W. Shuck.....	Galvanized iron, etc.....	4 30
26	"	Charles A. Besore.....	Lumber.....	36 97
27	"	Wm. Price.....	Paints, oils, etc.....	7 60
28	"	H. McFadden & Bros.....	Straw, hay, etc.....	10 60
29	"	<i>The Gazette</i> .....	Printing, etc.....	20 35
30	"	F. K. Robeson & Bros .....	Matting .....	3 00
31	"	Ferguson & Craig.....	Clock .....	1 00
32	"	C. J. Sabin .....	Bolts, blocks, etc.....	5 25
33	"	Henry Trevett.....	Hardware .....	15 20
34	"	Wm. Miebach & Co.....	Apparatus.....	4 90
35	"	Bevis & Co.....	Lumber.....	2 35
36	"	Miller Harness Co .....	Curry combs, brushes, etc.....	8 50
37	"	Ed Lasell.....	Berry boxes.....	2 75
38	"	Thos. Franks.....	Plants.....	13 15
39	"	H. N. Woodward .....	Services.....	10 00
40	"	Goes Lithographing Co.....	Printing warrant book .....	8 34
41	August 20	P. G. Holden .....	Expense.....	3 20
42	"	Samuel Barthey .....	Plowing and planting corn.....	5 50
43	"	Watson Faulkner .....	Sponges .....	1 50
44	"	Hubbard & Sons.....	Hardware .....	25 17
45	"	A. C. McClurg & Co.....	Adjusting typewriter.....	4 69
46	"	John F. Miller.....	Harness, etc.....	20 55
47	"	Frison Bros.....	Repairing whip socket.....	1 00
48	"	Illinois Printing Co.....	Printing .....	6 50
49	"	Henry Trevett.....	Locks, etc.....	3 97
50	"	V. W. Shuck .....	Galvanized iron, etc.....	4 55

Warrants—Continued.

No	Date.	To whom.	For what.	Amount.
51	1897. August 20	Twin City Ice & Cold St'ge Co.	Ice .....	\$14 40
52	"	C. J. Sabin .....	Scraper, seeds, etc. ....	15 20
53	"	Knowlton & Bennett .....	Records and journals .....	13 55
54	"	Robinson & Burr .....	Pulley .....	1 20
55	"	Charles A. Besore .....	Lumber, coal .....	9 63
56	"	Abe Selicovitz .....	Old pipe .....	1 25
57	"	J. G. Mosier .....	Expenses .....	9 40
58	"	S. W. Shattuck, Business Mgr.	Sundry items .....	16 91
59	"	"	Pay rolls for July, 1897, etc.	475 70
60	August 31	T. J. Burrill .....	Salary for August, 1897 .....	50 00
61	"	W. L. Pillsbury .....	" .....	25 00
62	"	E. Davenport .....	" .....	91 66
63	"	D. McIntosh .....	" .....	25 00
64	"	P. G. Holden .....	" .....	50 00
65	"	G. P. Clinton .....	" .....	83 33
66	"	C. G. Hopkins .....	" .....	125 00
67	"	J. C. Blair .....	" .....	41 66
68	"	W. J. Fraser .....	" .....	33 33
69	"	Kate McIntyre .....	" .....	50 00
70	"	S. W. Shattuck .....	" .....	16 66
71	"	T. I. Mairs .....	" .....	33 33
72	Sept. 15	A. C. McClurg & Co.	Shuttle .....	3 00
73	"	P. G. Holden .....	Expenses .....	11 68
74	"	Eimer & Amend .....	Flasks, etc. ....	9 95
75	"	Richards & Co. ....	Chemicals, etc. ....	85 16
76	"	H. N. Woodward .....	Services .....	44 57
77	"	E. A. Riehl .....	Cutting samples, .....	3 20
78	"	Montgomery Ward & Co.	Cider mill, etc. ....	11 46
79	"	George F. Lasher .....	Postal guide .....	2 50
80	"	F. K. Robeson & Bro.	Linoleum, etc. ....	37 83
81	"	Hubbard & Sons .....	Hardware, etc. ....	12 20
82	"	Miller & Leming .....	Pine lumber .....	1 60
83	"	H. Swannell .....	Paints, oils, etc. ....	14 25
84	"	Charles A. Besore .....	Lumber and coal .....	19 35
85	"	S. W. Shattuck, Business Mgr.	Pay rolls, etc., August, 1897 .....	404 99
86	Sept. 30	T. J. Burrill .....	Salary for September, 1897 .....	50 00
87	"	W. L. Pillsbury .....	" .....	25 00
88	"	E. Davenport .....	" .....	91 67
89	"	D. McIntosh .....	" .....	25 00
90	"	P. G. Holden .....	" .....	54 17
91	"	J. C. Blair .....	" .....	45 84
92	"	W. J. Fraser .....	" .....	37 50
93	"	C. G. Hopkins .....	" .....	125 00
94	"	G. P. Clinton .....	" .....	83 34
95	"	Kate McIntyre .....	" .....	55 00
96	"	S. W. Shattuck .....	" .....	16 67
97	"	T. I. Mairs .....	" .....	41 67
98	"	Henry Trevett .....	Hardware .....	13 15
99	"	Campbell & Spalding .....	Shoeing, etc. ....	10 40
100	"	E. Davenport .....	Expenses .....	4 78
101	"	Ottenheimer & Co. ....	Overalls .....	1 00
102	October 15	Vermont Farm Machine Co.	Babcock heater, etc. ....	12 72
103	"	Twin City Ice & Cold St'ge Co.	Ice .....	26 20
104	"	A. P. Cunningham & Son.	Supplies .....	10 65
105	"	De Laval Separator Co.	Rings .....	1 63
106	"	John F. Miller .....	Blankets, collars, etc. ....	6 00
107	"	T. H. Trevett .....	Galvanized iron, etc. ....	8 15
108	"	E. Henry .....	Brooms, buckets, etc. ....	5 63
109	"	C. A. Besore .....	Lumber, etc. ....	12 20
110	"	Gustav E. Stechert .....	Books .....	4 93
111	"	Champaign County Herald.	Record books, etc. ....	6 20
112	"	Robinson & Burr .....	Brass rings .....	3 00
113	"	W. W. Walls & Co. ....	Lumber .....	1 40
114	"	D. H. Lloyd & Son .....	Books, pens, etc. ....	5 69
115	"	Alexander Lumber Co. ....	Lumber .....	11 77
116	"	G. C. Willis .....	Flannel, toweling, etc. ....	6 29
117	"	Hubbard & Sons .....	Locks, fittings, etc. ....	14 65
118	"	George Besore .....	Oats, bran, etc. ....	14 91
119	"	Knowlton & Bennett .....	Paints, oils, etc. ....	12 40
120	"	Martin Bibbuis .....	Sand .....	1 20
121	"	Eimer & Amend .....	Repairs of polariscope, etc.	51 00
122	"	George A. Garrison .....	Oats .....	17 67
123	Oct. 30	T. J. Burrill .....	Salary for October, 1897 .....	50 00
124	"	W. L. Pillsbury .....	" .....	25 00
125	"	E. Davenport .....	" .....	91 66
126	"	D. McIntosh .....	" .....	25 00

## Warrants—Continued.

No.	Date.	To whom paid.	For what.	Amount.
	1897.			
127	Oct. 30	P. G. Holden .....	Salary for October, 1897..	\$54 16-
128	"	J. C. Blair .....	"	45 83.
129	"	W. J. Fraser .....	"	37 50
130	"	C. G. Hopkins .....	"	125 00-
131	"	G. P. Clinton .....	"	83 33
132	"	Kate McIntyre .....	"	55 00
133	"	S. W. Shattuck .....	"	16 66
134	"	T. I. Mairs .....	"	41 66
135	"	S. W. Shattuck, Business Mgr.	Pay rolls, men, September, 1897, etc.	544 28
136	Nov. 15	S. E. Ball .....	Expenses for board of men.....	7 50
137	"	G. C. Willis .....	Blankets, etc .....	17 40
138	"	Pantagraph Print. and Stat. Co	Letter books, etc .....	7 25
139	"	George W. Parker & Son .....	Wood specimens .....	2 50-
140	"	William Roysden .....	Moving safe .....	25 00-
141	"	Samuel Bartley .....	Labor, cutting corn, etc .....	10 00
142	"	Richards & Co .....	Condenser tubes .....	12 00-
143	"	Fuller & Fuller Co .....	Acids .....	4 48
144	"	J. Hamilton & Son .....	Lumber .....	11 76
145	"	Torrey Botanical Club .....	Subscription .....	3 00
146	"	George Besore .....	Oats and feed .....	11 00
147	"	Mittendorf & Kiler .....	Mattress, etc .....	28 66-
148	"	C. J. Sabin .....	Twine, etc .....	8 73-
149	"	John F. Miller .....	Buggy, etc .....	48 50-
150	"	Hubbard & Sons .....	Wheelbarrow, pipe, etc .....	16 43
151	"	A. H. Barber & Co .....	Jars, brushes, etc .....	6 73-
152	"	C. A. Besore .....	Lumber .....	18 76
153	"	W. W. Lindley .....	Postage .....	20 00-
154	"	S. W. Shattuck, Business Mgr.	Chemicals, light, water, etc .....	122 97
155	"	"	Freight, express, etc .....	81 96-
156	"	"	Pay roll of men, October, 1897 .....	505 12-
157	Nov. 30	T. J. Burrill .....	Salary for November, 1897 .....	50 00
158	"	W. L. Pillsbury .....	"	25 00
159	"	E. Davenport .....	"	91 66
160	"	D. McIntosh .....	"	25 00-
161	"	P. G. Holden .....	"	54 16
162	"	J. C. Blair .....	"	45 83.
163	"	W. J. Fraser .....	"	37 50
164	"	C. G. Hopkins .....	"	125 00-
165	"	G. P. Clinton .....	"	83 33.
166	"	Kate McIntyre .....	"	55 00-
167	"	S. W. Shattuck .....	"	16 66
168	Dec. 20	Henry Fisher .....	Cow .....	40 00-
169	"	N. B. Morrison .....	Expenses .....	17 50-
170	"	Hubbard & Sons .....	Milk can .....	1 50-
171	"	Bevis & Co .....	Lumber .....	2 50-
172	"	C. & U. Phoenix Telephone Co.	Services to December 15, 1897.....	9 00-
173	"	<i>Champaign County Herald</i> .....	Printing .....	44 00-
174	Nov. 30	Gustav E. Stechert .....	Books .....	6 50-
175	"	Charles A. Besore .....	Lumber, etc .....	35 33
176	"	S. W. Shattuck, Business Mgr.	Pay rolls, men, November, 1897, etc.	388 25
177	Dec. 31	T. J. Burrill .....	Salary for December, 1897 .....	50 00
178	"	W. L. Pillsbury .....	"	25 00-
179	"	E. Davenport .....	"	91 67.
180	"	D. McIntosh .....	"	25 00-
181	"	P. G. Holden .....	"	54 17
182	"	J. C. Blair .....	"	45 84
183	"	W. J. Fraser .....	"	37 50
184	"	C. G. Hopkins .....	"	125 00-
185	"	G. P. Clinton .....	"	83 34
186	"	Kate McIntyre .....	"	55 00-
187	"	S. W. Shattuck .....	"	16 67
188	"	Isaac S. Raymond .....	Expenses .....	5 00
	1898.			
189	Jan. 7	E. A. Riehl .....	Expenses .....	13 98.
190	"	H. B. Gurler .....	"	13 06
191	"	W. J. Frazer .....	"	5 42
192	"	P. G. Holden .....	"	63 80
193	"	E. Davenport .....	"	2 73
194	"	C. H. Baddeley .....	Lamp, etc .....	1 70
195	"	C. & U. Phoenix Telephone Co.	Services to March 15, 1898 .....	3 00
196	"	A. C. McClurg & Co .....	Ribbons .....	3 35
197	"	Henry I. Green .....	Thermometer .....	6 00
198	"	Charles A. Besore .....	Lumber, etc .....	45 49
199	"	S. B. Hedges .....	Straw and milk .....	22 29
200	"	Twin City Ice & Cold Storage Co	Ice .....	15 00
201	"	C. E. Stewart .....	Board .....	2 40

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
202	Jan.	7 Hubbard & Sons.....	Hay carrier, etc.....	32 74
203	"	" Kariher Grocery Co.....	Salt, etc.....	1 40
204	"	" William Price Estate.....	Paints, oils, etc.....	16 50
205	"	" Creamery Package Mfg Co.....	Jars, etc.....	42 58
206	"	" Stern Bros.....	Rubber coat.....	5 00
207	"	" Knowlton & Bennett.....	Glass, etc.....	11 20
208	"	" Frison Bros.....	Repairing sled.....	5 00
209	Jan.	15 Kariher Grocery Co.....	Sacks.....	3 25
210	"	" W. W. Lindley.....	Postage.....	10 00
211	"	" S. W. Shattuck, Business Mgr.	Pay rolls, December, 1897, etc.	406 94
212	Jan.	31 T. J. Burrill.....	Salary for January, 1898.	50 00
213	"	" W. L. Pillsbury.....	"	25 00
214	"	" E. Davenport.....	"	95 83
215	"	" D. McIntosh.....	"	25 00
216	"	" P. G. Holden.....	"	54 16
217	"	" J. C. Blair.....	"	45 83
218	"	" C. G. Hopkins.....	"	125 00
219	"	" W. J. Fraser.....	"	37 50
220	"	" G. P. Clinton.....	"	83 33
221	"	" Kate McIntyre.....	"	55 00
222	"	" S. W. Shattuck.....	"	16 66
223	"	" McFadden Bros.....	Bran.....	4 20
224	"	" Swannell Mfg. Co.....	Linseed cake, etc.....	29 50
225	"	" Mittendorf & Kiler.....	Picture frames.....	2 95
226	"	" Bausch & Lomb Optical Co.....	Objective, materials, etc.....	61 73
227	"	" Ft. Wayne Electric Corporat'n	Apparatus.....	4 00
228	"	" Phoenix Nursery Co.....	Nursery stock.....	1 00
229	"	" D. H. Lloyd & Son.....	Detail paper, etc.....	14 75
230	"	" C. H. Baddeley.....	Lantern, gold dust, etc.....	6 75
231	"	" G. C. Willis.....	Toweling, etc.....	12 07
232	"	" Creamery Package Mfg Co.....	Bottles, etc.....	17 93
233	"	" L. K. Howse & Co.....	Baskets.....	4 45
234	"	" Samuel Bartl-y.....	Services.....	25 00
235	"	" Champaign County Herald.....	Printing circulars, etc.....	31 60
236	"	" J. Manz & Co.....	Half tones.....	27 60
237	"	" J. C. Blair.....	Expenses.....	21 83
238	"	" Chicago Produce Co.....	Subscription to January 22, 1899.	1 50
239	"	" Thomas Meehan & Sons.....	to December 31, 1898..	2 00
240	"	" Register Co.....	Book.....	5 00
241	"	" Gustav E. Stechert.....	"	1 65
242	"	" The Gazette.....	Printing vouchers.....	3 50
243	"	" C. A. Hunt.....	Glass.....	4 80
244	"	" Hubbard & Sons.....	Hardware.....	38 20
245	"	" John F. Miller.....	Bridle, etc.....	7 90
246	"	" Champaign Mach. and Sup. Co	Pulley, etc.....	2 61
247	"	" John B. Bennett.....	Cement, sand, plastering, etc.	23 25
248	"	" J. W. Spaulding & Son.....	Rubber boots.....	3 50
249	"	" W. J. Fraser.....	Stove.....	2 00
250	"	" S. W. Shattuck, business mgr.	Sundry items.....	3 88
251	Feb.	28 H. N. Woodward.....	Labor on experiment fields	17 51
252	"	" N. O. Nelson.....	Rebate.....	3 50
253	"	" H. Leiber Co.....	Photographic materials.....	20 24
254	"	" Richards & Co.....	Nessler tubes, etc.....	13 54
255	"	" Montgomery Ward & Co.....	Ducking.....	3 00
256	"	" Holstein Friesian Ass'n of Am.	Set of herd books.....	25 00
257	"	" G. E. Stechert.....	Subscriptions.....	150 55
258	"	" Hubbard & Sons.....	Roofing, linings, etc.....	47 76
259	"	" S. B. Hedges.....	Hay and straw.....	24 32
260	"	" S. W. Shattuck, business mgr.	Pay-rolls, January, 1898, etc.	335 89
261	"	" T. J. Burrill.....	Salary for February, 1898	50 00
262	"	" W. L. Pillsbury.....	"	25 00
263	"	" E. Davenport.....	"	95 83
264	"	" D. McIntosh.....	"	25 00
265	"	" P. G. Holden.....	"	54 17
266	"	" J. C. Blair.....	"	45 83
267	"	" C. G. Hopkins.....	"	125 00
268	"	" W. J. Fraser.....	"	37 50
269	"	" G. P. Clinton.....	"	83 33
270	"	" Kate McIntyre.....	"	55 00
271	"	" S. W. Shattuck, business mgr.	"	16 67
272	March	15 Gustav E. Stechert.....	Herd registers.....	54 00
273	"	" American Jersey Cattle Club..	Subscription.....	1 10
274	"	" W. W. Lindley.....	Postage stamps.....	20 00
275	"	" Eichberg & Baer.....	Rugs.....	1 00
276	"	" C. H. Baddeley.....	Lamp, chimneys, etc.....	6 20
277	"	" A. E. Wuesteman.....	Clock.....	1 07
278	"	" R. S. Wilber.....	Freight, express, drayage.....	16 53

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898			
279	March 15	Charles A. Besore.....	Lumber .....	\$93 05
280	"	The Alexander Lumber Co....	" .....	61 45
281	"	Henry Swannell.....	Kerosene, cotton, etc.....	4 95
282	"	T. H. Trevett.....	Hardware .....	42 40
283	"	Hubbard & Sons.....	Welsbach lights, etc.....	10 80
284	"	H. Swannell.....	Note books, etc.....	4 05
285	"	E. Henry.....	Salt, soda, soap, etc.....	13 65
286	"	Creamery Package Mfg. Co....	Brushes, pails, etc.....	5 87
287	"	Cunningham Bros.....	Plates, films, hypo, etc.....	10 15
288	"	George Besore.....	Bran, oats, etc.....	151 20
289	"	Edward B. Voorhees.....	Membership, A. A. A. C. and M. S..	10 00
290	"	<i>The Gazette</i> .....	Labels .....	1 00
291	"	Henry Heil Chemical Co.....	Tubes, forceps, etc.....	11 11
292	"	Champaign Mach. and Sup. Co.	Centrifuge .....	45 58
293	"	Robinson & Burr.....	Belting, pulleys, etc.....	26 78
294	"	J. B. Ellis.....	Book .....	7 18
295	"	Hubbard & Sons.....	Hardware.....	11 69
296	"	Morrill & Morley.....	Pump, etc.....	37 40
297	"	Fuller & Fuller.....	Acid, etc.....	3 94
298	"	G. A. Garrison.....	Oats .....	76 04
299	"	Knowlton & Bennett.....	Oil, shellac, etc.....	5 25
300	"	Isaac S. Raymond.....	Expenses .....	4 00
301	"	E. A. Riehl.....	" .....	14 00
302	"	S. W. Shattuck, business mgr.	Express, freight, etc.....	48 81
303	"	S. W. Shattuck, business mgr.	Pay-roll, men, February, 1898.	349 04
304	March 31	T. J. Burrill.....	Salary, March, 1898.....	50 00
305	"	W. L. Pillsbury.....	" .....	25 00
306	"	E. Davenport.....	" .....	95 84
307	"	D. McIntosh.....	" .....	25 00
308	"	P. G. Holden.....	" .....	54 17
309	"	J. C. Blair.....	" .....	45 84
310	"	C. G. Hopkins.....	" .....	125 00
311	"	W. J. Fraser.....	" .....	37 50
312	"	G. P. Clinton.....	" .....	83 34
313	"	Kate McIntyre.....	" .....	55 00
314	"	S. W. Shattuck.....	" .....	10 67
315	"	Hack & Anderson.....	Printing, etc.....	707 70
316	April 15	William Price estate.....	Oil, paint, etc.....	15 66
317	"	C. E. Chapman.....	Painting and papering rooms.....	49 00
318	"	Farmers Handy Wagon Co....	Extra parts for wagon.....	26 50
319	"	Hubbard & Sons.....	Hardware.....	37 98
320	"	Frison Bros.....	Wagon parts and repairing .....	3 75
321	"	Charles Lindley.....	Oats .....	25 87
322	"	C. & U. Phoenix Telephone Co.	Telephone services.....	3 00
323	"	V. W. Shuck.....	Shears, stone, etc.....	1 90
324	"	Eugene Dietzgen Co.....	Slide rule.....	3 60
325	"	<i>Champaign County Herald</i> .....	Printing.....	19 50
326	"	E. Davenport.....	Expenses, etc.....	17 86
327	"	P. G. Holden.....	" .....	18 68
328	"	G. P. Clinton.....	" .....	4 75
329	"	J. A. Campbell & Co.....	Chop.....	2 32
330	"	J. C. Vaughan.....	Seeds.....	4 20
331	"	H. M. Simpson & Sons.....	Seeds and plants.....	7 85
332	"	A. C. McClurg & Co.....	Multiplication book.....	2 54
333	"	Max Kaehler & Martini.....	Chemicals.....	16 20
334	"	DeLaval Separator Co.....	Separator parts.....	1 40
335	"	<i>The Gazette</i> .....	Book .....	2 90
336	"	W. W. Lindley.....	Stamps .....	10 00
337	"	Urbana Planing Mill.....	Sawing wood.....	1 50
338	"	Manhat'n Dyeing and Cl'g W'ks	Dyeing blankets.....	1 50
339	"	Charles A. Besore.....	Lumber, etc.....	38 67
340	"	Mittendorf & Kiler.....	Chiffonier, etc.....	14 85
341	"	Bausch & Lomb Optical Co....	Thermometer and razor .....	3 46
342	"	A. S. Nelson & Sons.....	Sacks and seeds.....	2 05
343	"	Walker & Mulliken.....	Chair, curtains, etc.....	13 85
344	"	S. W. Shattuck, business mgr.	Express and freight.....	26 24
345	"	S. W. Shattuck, business mgr.	Pay-roll, men, March, 1898.....	472 44
346	April 30	S. W. Shattuck, business mgr.	Bottle racks, etc.....	13 55
347	"	H. C. Porter.....	Grain bags .....	2 25
348	"	C. H. Baddeley.....	Seeds .....	4 51
349	"	Jos. Kuhn & Son.....	Rubber coat.....	5 00
350	"	Walker & Mulliken.....	Repairing chair.....	1 00
351	"	T. J. Burrill.....	Salary, April, 1898.....	50 00
352	"	W. L. Pillsbury.....	" .....	25 00
353	"	E. Davenport.....	" .....	95 83
354	"	D. McIntosh.....	" .....	25 00
355	"	P. G. Holden.....	" .....	54 16
356	"	J. C. Blair.....	" .....	45 83



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
357	April 30	W. J. Fraser.....	Salary, April, 1898.....	\$37 50
358	"	G. P. Clinton.....	" " " ".....	83 33
359	"	Kate McIntyre.....	" " " ".....	55 00
360	May 14	S. W. Shattuck.....	" " " ".....	16 66
361	"	Hammond & Willard.....	Stock.....	13 99
362	"	J. W. Griesemer.....	" " " ".....	1 48
363	"	Hiram Howard.....	Seed.....	1 35
364	"	Silas Wilson Co.....	Stock.....	6 00
365	"	Augustine & Co.....	" " " ".....	5 22
366	"	Phoenix Nursery Co.....	" " " ".....	11 46
367	"	T. V. Munson & Son.....	" " " ".....	5 75
368	"	A. W. Livingston's Sons.....	Seeds.....	1 50
369	"	J. W. Kerr.....	Stock.....	4 44
370	"	J. C. Suffern.....	Corn.....	2 20
371	"	Willett & Gray.....	Seeds.....	3 64
372	"	Johnson & Stokes.....	Stock.....	1 35
373	"	The Storrs & Harrison Co.....	" " " ".....	6 26
374	"	W. A. Watson & Co.....	" " " ".....	3 56
375	"	Ellwanger & Barry.....	" " " ".....	8 61
376	"	Stark Bros. Nurseries & Orch. Co.....	" " " ".....	10 53
377	"	Standard Oil Co.....	Oil.....	6 82
378	"	Eichberg & Baer.....	Rugs.....	1 50
379	"	A. M. Woodward & Co.....	Pear stock.....	3 00
380	"	Iowa Seed Co.....	Corn.....	1 10
381	"	J. B. Burrows.....	Seed.....	9 00
382	"	C. A. Besore.....	Coal.....	4 80
383	"	Meyer & Raapke.....	Seed.....	3 45
384	"	J. C. Vaughan.....	" " " ".....	6 74
385	"	S. B. Hedges.....	Straw and hay.....	18 05
386	"	R. T. Robinson.....	Grinding, etc.....	10 54
387	"	Pattengale Bros.....	Hay.....	4 40
388	"	Philadelphia Book Co.....	Book.....	2 09
389	"	J. F. Miller.....	Harness, etc.....	22 10
390	"	Knowlton & Bennett.....	Sponges, etc.....	12 60
391	"	Wm. Miebach & Co.....	Mitre box, etc.....	10 35
392	"	J. C. Sedgwick.....	Carpenter work.....	10 20
393	"	The Sanders Publishing Co.....	Advertising.....	4 90
394	"	G. R. Petty & Co.....	Finishing desk.....	8 85
395	"	Richards & Co.....	Laboratory supplies.....	229 84
396	"	S. W. Shattuck, Business Mgr.....	Freight, express and drayage.....	21 38
397	May 31		Pay roll for April, 1898.....	638 99
398	"	T. J. Burrill.....	Salary, May, 1898.....	50 00
399	"	W. L. Pillsbury.....	" " " ".....	25 00
400	"	E. Davenport.....	" " " ".....	95 83
401	"	D. McIntosh.....	" " " ".....	25 00
402	"	P. G. Holden.....	" " " ".....	54 17
403	"	J. C. Blair.....	" " " ".....	45 83
404	"	W. J. Fraser.....	" " " ".....	37 50
405	"	G. P. Clinton.....	" " " ".....	83 33
406	"	Kate McIntyre.....	" " " ".....	55 00
407	"	S. W. Shattuck.....	" " " ".....	16 67
408	June 15	<i>The Gazette</i> .....	Printing.....	3 50
409	"	Fuller & Fuller Co.....	Vitriol.....	17 85
410	"	A. D. Barber.....	Expenses.....	4 50
411	"	Isaac S. Raymond.....	" " " ".....	3 25
412	"	N. B. Morrison.....	" " " ".....	17 50
413	"	W. W. Lindley.....	Postage.....	10 00
414	"	Fred'k L. Houghton.....	Book.....	2 00
415	"	Holsteir-Friesian Asso. of Am.....	Publication.....	1 25
416	"	Dr. Giovanni Briosi.....	Parasitic fungi.....	23 70
417	"	J. Manz & Co.....	Diagram.....	1 80
418	"	<i>Champaign County Herald</i> .....	Printing.....	9 50
419	"	Mathews Bros.....	Hay and bran.....	8 37
420	"	Miller & Leming.....	Shavings.....	1 50
421	"	Chas. Lindley.....	Oats.....	16 50
422	"	R. T. Robinson.....	Oats and grinding.....	21 90
423	"	Estate of J. A. Campbell & Co.....	Hay, etc.....	15 00
424	"	H. McFadden & Bro.....	Bran, etc.....	10 20
425	"	S. Douglas.....	Hay.....	8 42
426	"	Creamery Package Mfg. Co.....	Milk jars.....	7 10
427	"	L. C. Garwood.....	Clock.....	1 00
428	"	The Miller Harness Co.....	Harness.....	13 00
429	"	Robinson & Burr.....	Waste and glasses.....	2 50
430	"	Eugene Dietzgen Co.....	Steel tape.....	4 00
431	"	Victor Koechl & Co.....	Chemicals.....	12 50
432	"	Chas. A. Besore.....	Lumber.....	4 12

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
433	June 15	J. C. Vaughan.....	Seeds.....	\$2 51
434	"	Geo. A. Sweet Nursery Co.....	Plums.....	2 88
435	"	T. Ralph Miner.....	Plum trees.....	1 50
436	"	Green's Nursery Co.....	Nursery stock.....	1 70
437	"	Samuel Bartley.....	Labor, oats, etc.....	3 62
438	"	R. Abernathy.....	Painting signs.....	16 85
439	"	Cunningham Bros.....	Chemicals, etc.....	10 36
440	"	Bausch & Lomb Optical Co.....	Apparatus.....	11 55
441	"	S. W. Shattuck, Business Mgr.....	Freight, drayage, etc.....	11 41
442	"	"	Pay rolls for May, 1898.....	658 44
443	"	"	Express, etc.....	36 85
444	June 30	T. J. Burrill.....	Salary, June, 1898.....	50 00
445	"	W. L. Pillsbury.....	"	25 00
446	"	E. Davenport.....	"	95 84
447	"	D. McIntosh.....	"	25 00
448	"	P. G. Holden.....	"	54 17
449	"	J. C. Blair.....	"	45 84
450	"	W. J. Frazer.....	"	37 50
451	"	G. P. Clinton.....	"	83 34
452	"	C. G. Hopkins.....	"	125 00
453	"	Kate McIntyre.....	"	55 67
454	"	S. W. Shattuck.....	"	16 67
455	"	H. M. Dunlap.....	Making cider, barrels, etc.....	85 20
456	"	F. M. LeRoy.....	Hay and stray.....	77 28
457	"	Thomas Naughton.....	Toning and mounting prints.....	4 42
458	"	Chreamery Package & Mfg. Co.....	Milk jars.....	9 34
459	"	Samuel Bartley.....	Labor.....	8 88
460	"	H. N. Woodward.....	Labor and material.....	50 95
461	"	Ed. Ford.....	Hay.....	3 47
462	"	C. A. Percival.....	Pasturing cattle.....	30 00
463	"	Hubbard & Sons.....	Labor and material.....	51 36
464	"	S. W. Shattuck, Business Mgr.....	Sundry items.....	1 40
465	"	R. S. Wilber.....	Freight and drayage.....	8 22
466	"	H. Swannell.....	Sponges, oil, etc.....	8 20
467	"	Karlier Grocery Co.....	Sacks and lye.....	2 00
468	"	Knowlton & Bennett.....	Paint, etc.....	5 10
469	"	Alexander Lumber Co.....	Lime, lumber, etc.....	23 36
470	"	J. C. Vaughan.....	Seed, etc.....	1 34
471	"	<i>The Gazette</i> .....	Printing, etc.....	2 00
472	"	C. A. Hunt.....	Glass, oil, etc.....	12 40
473	"	E. H. Sargent & Co.....	Peptone.....	1 24
474	"	Charles A. Besore.....	Lumber, etc.....	17 89

## SCHOOL OF PHARMACY WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July 10	J. H. Clough.....	Rent, April, 1897.....	\$300 00
2	"	W. B. Day.....	Salary, May and July, 1897.....	150 00
3	"	Henry Eulert.....	"	100 00
4	"	W. B. Day, Actuary.....	Petty expenses.....	36 16
5	"	"	Rebates on deposit.....	199 69
6	"	H. Swannell.....	Expenses.....	16 66
7	"	H. H. Rogers.....	"	4 75
8	"	Theo C. Loehr.....	"	20 10
9	"	Chas. A. Kofoid.....	"	8 38
10	"	F. M. Goodman.....	Printing questions.....	4 50
11	"	E. J. Anthony.....	Pamphlets, envelopes, etc.....	68 75
12	"	John McLogan & Co.....	Plumbing.....	1 10
13	"	Turney & Jones Co.....	Coal.....	18 00
14	"	J. C. Craig, Superintendent.....	Water.....	5 25
15	"	Wendell & Co.....	Medals.....	30 00
16	"	S. W. Shattuck, business mgr.....	Telephone charges.....	31 25
17	"	Mandel Bros.....	Ribbons.....	2 55
18	"	H. S. Cooper.....	Calcimining, etc.....	116 00
19	July 31	W. B. Day.....	Salary, July, 1897.....	75 00
20	"	Henry Eulert.....	"	50 00
21	"	W. B. Day, Actuary.....	Petty expenses.....	70 92
22	"	J. W. Wilson.....	Cabinet.....	38 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
23	July 1897.	31 W. F. Keener Co .....	Directory.....	\$5 00
24	"	Goes Lithographing Co.....	Printing warrant book.....	8 34
25	"	Pontiac Eng. & Pub. Co.....	Cuts.....	9 70
26	Oct.	2 A. W. Palmer.....	Expenses.....	10 66
27	"	S. A. Reynolds.....	Legal services.....	30 00
28	"	Alex. H. Revell & Co.....	Curtains.....	5 35
29	"	Mandel Bros.....	Matting, etc.....	27 50
30	"	G. P. Englehart & Co.....	Printing.....	6 00
31	"	Donohue & Henneberry.....		279 00
32	"	E. J. Anthony.....	Envelopes and printing.....	14 25
33	"	Richards & Co.....	Filter, pump, etc.....	4 82
34	"	Fuller & Fuller Co.....	Paints, ammonia, etc.....	29 87
35	"	S. W. Shattuck, Business Mgr.....	Postage stamps.....	185 00
36	"	W. B. Day, Actuary.....	Expenses to September 15, 1898.....	81 88
37	"	W. B. Day.....	Salary, August and September, 1897.....	150 00
38	"	Henry Eulert.....		100 00
39	Oct.	15 <i>Druggists' Circular</i> .....	Advertisement.....	33 34
40	"	<i>Deutsch-Amerikanische Apotheker Zeitung</i> .....	".....	15 00
41	"	Pharmaceutical Rev'w Pub. Co.....	".....	25 00
42	"	Merck & Co.....	".....	40 00
43	"	American Druggist Pub. Co.....	".....	21 60
44	"	D. O. Hynes & Co.....	".....	36 00
45	"	J. S. Ford Johnson & Co.....	Chairs, etc.....	23 13
46	"	Fuller & Fuller Co.....	Asphaltum, etc.....	4 93
47	"	John McLogan.....	Plumbing, gas fittings, etc.....	34 70
48	"	Western Steam Boiler Works.....	Repairing set of tubes, etc.....	37 50
49	"	Chappell Chemical Co.....	Ammonia.....	1 95
50	"	Gilbert & Bennett Mfg. Co.....	Wire cloth.....	5 88
51	"	Richards & Co.....	Balance, tubing, chemicals.....	444 10
52	"	E. J. Anthony.....	Printing invitations.....	24 50
53	"	P. F. Pettibone & Co.....	Supplies, etc.....	3 20
54	"	Chicago Telephone Co.....	Services to January, 1898.....	31 25
55	"	F. W. A. Rowles.....	Supplies.....	2 00
56	"	W. B. Day, Actuary.....	Petty expenses to Oct. 15, 1897.....	48 30
57	Oct.	30 W. A. Puckner.....	Salary, October, 1897.....	150 00
58	"	C. S. N. Hallberg.....	".....	142 85
59	"	F. M. Goodman.....	".....	135 71
60	"	Frank S. Hereth.....	".....	71 42
61	"	L. I. Schreiner.....	".....	57 14
62	"	E. N. Gathercoal.....	".....	50 00
63	"	G. E. Chase.....	".....	14 28
64	"	W. B. Day.....	".....	96 41
65	"	Henry Eulert.....	".....	50 09
66	"	J. H. Clough.....	Rent, 6 months, to November, 1897.....	1,200 00
67	Nov.	15 Frank S. Hereth.....	Balance salary, June 30, 1897.....	23 00
68	"	C. S. N. Hallberg.....	".....	45 95
69	"	W. A. Puckner.....	".....	59 10
70	"	F. M. Goodman.....	".....	59 10
71	"	Fuller & Fuller Co.....	Chemicals.....	151 19
72	"	Searle & Hereth Co.....	Drugs.....	7 65
73	"	Registered Pharmacist.....	Advertisement.....	15 00
74	"	Meyer Bros, Druggist.....	".....	15 00
75	"	Pictorial Printing Co.....	Labels, etc.....	12 19
76	"	Orr & Lockett Hardware Co.....	Files.....	11 04
77	"	Peabody Coal Co.....	Hard coal.....	312 75
78	"	A. C. McClurg & Co.....	Tablets.....	3 52
79	"	Mercantile Printing Co.....	Printing.....	5 25
80	"	R. W. McCready Cork Co.....	Corks.....	8 65
81	"	Mandel Bros.....	Cloth.....	5 10
82	"	Lehn & Fink.....	Specimens of drugs.....	22 50
83	"	E. J. Anthony.....	Cards.....	6 00
84	"	A. M. Foster & Co.....	Prescriptions, boxes.....	22 55
85	"	Richards & Co.....	Chemicals.....	276 42
86	"	Donohue & Henneberry.....	Paper.....	6 50
87	"	Thayer & Jackson Station'y Co.....	Stencils, etc.....	3 20
88	"	S. B. Frank.....	Galvanized iron, labor, etc.....	31 40
89	Nov.	30 W. A. Puckner.....	Salary, November, 1897.....	150 00
90	"	C. S. N. Hallberg.....	".....	142 85
91	"	F. M. Goodman.....	".....	135 71
92	"	Frank S. Hereth.....	".....	71 42
93	"	L. I. Schreiner.....	".....	57 14
94	"	E. N. Gathercoal.....	".....	50 00
95	"	Geo. E. Case.....	".....	14 28
96	"	W. B. Day.....	".....	96 41
97	"	Henry Eulert.....	".....	50 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
98	1897.			
98	Nov.	30 J. H. Clough.....	Rent of building, November, 1897 ..	\$200 00
99	"	H. W. Ralph, Agent.....	Typewriter and case.....	75 00
100	"	W. B. Day, Actuary.....	Petty expenses.....	32 68
101	Dec.	20 S. B. Traub.....	Castings for stove.....	7 60
102	"	Henry R. Strong.....	Advertisement.....	25 00
103	"	E. J. Anthony.....	Envelopes.....	2 00
104	"	Donohue & Henneberry.....	Paper.....	3 85
105	"	A. M. Foster.....	Chemicals.....	14 16
106	"	A. C. McClurg & Co.....	Tablets.....	2 35
107	"	Richards & Co.....	Tubing, flasks, etc.....	13 34
108	"	Fuller & Fuller Co.....	Chemicals.....	19 94
109	Dec.	31 W. A. Puckner.....	Salary, December, 1897.....	150 00
110	"	C. S. N. Hallberg.....	" ".....	142 85
111	"	F. M. Goodman.....	" ".....	135 71
112	"	Frank S. Hereth.....	" ".....	71 42
113	"	L. I. Schreiner.....	" ".....	57 14
114	"	E. N. Gathercoal.....	" ".....	50 00
115	"	Geo. E. Case.....	" ".....	14 28
116	"	W. B. Day.....	" ".....	21 41
117	"	Henry Eulert.....	" ".....	75 00
118	"	J. H. Clough.....	Rent of building, December, 1897.....	50 00
119	"			200 00
120	1898.			
120	Jan.	15 E. J. Anthony.....	Printing.....	3 50
121	"	T. P. Brankin.....	Sprinkling.....	10 00
122	"	W. B. Day, actuary.....	Expenses, gas, water, etc.....	61 40
123	"	Thayer & Jackson Station'y Co.....	Paper and stencils.....	3 60
124	"	Nebraska State Phar. Ass'n.....	Advertisement.....	5 00
125	"	C. P. Englehard & Co.....	".....	35 00
126	"	Price Bros. & Co.....	Glass, labels, etc.....	18 59
127	"	Richards & Co.....	Rubber tubing.....	5 30
128	"	Chicago Tel. Co.....	Services.....	31 25
129	"	Fuller & Fuller Co.....	Chemicals.....	17 92
130	"	W. B. Day, actuary.....	Petty expenses.....	38 02
131	Jan.	31 W. A. Puckner.....	Salary, January, 1898.....	150 00
132	"	C. S. N. Hallberg.....	" ".....	142 85
133	"	F. M. Goodman.....	" ".....	135 71
134	"	Frank S. Hereth.....	" ".....	71 42
135	"	L. I. Schreiner.....	" ".....	57 14
136	"	E. N. Gathercoal.....	" ".....	50 00
137	"	Geo. E. Case.....	" ".....	14 28
138	"	W. B. Day.....	" ".....	96 41
139	"	Henry Eulert.....	" ".....	50 00
140	"	J. H. Clough.....	Rent, January, 1898.....	200 00
141	Feb.	28 W. A. Puckner.....	Salary, February, 1898.....	150 00
142	"	C. S. N. Hallberg.....	" ".....	142 50
143	"	F. M. Goodman.....	" ".....	135 71
144	"	Frank S. Hereth.....	" ".....	71 42
145	"	L. I. Schreiner.....	" ".....	57 14
146	"	E. N. Gathercoal.....	" ".....	50 00
147	"	Geo. E. Case.....	" ".....	14 28
148	"	W. B. Day.....	" ".....	96 41
149	"	Henry Eulert.....	" ".....	50 00
150	"	J. H. Clough.....	Rent, February, 1898.....	200 00
151	"	W. B. Day, actuary.....	Expenses to February 19, 1898.....	48 91
152	"	Ebert's Pharmacy.....	Powder boxes.....	8 65
153	"	Western Union Tel. Co.....	Time service to March 31, 1898.....	3 00
154	"	A. W. Palmer.....	Expenses.....	11 16
155	"	Pictorial Printing Co.....	Tin boxes.....	2 50
156	"	Donohue & Henneberry.....	Paper.....	4 35
157	"	Richards & Co.....	Beakers, filters, etc.....	4 32
158	"	Fuller & Fuller Co.....	Chemicals.....	62 92
159	March	31 W. A. Puckner.....	Salary, March, 1898.....	150 00
160	"	C. S. N. Hallberg.....	" ".....	142 85
161	"	F. M. Goodman.....	" ".....	135 71
162	"	Frank S. Hereth.....	" ".....	71 42
163	"	L. I. Schreiner.....	" ".....	57 14
164	"	E. N. Gathercoal.....	" ".....	50 00
165	"	Geo. E. Case.....	" ".....	14 28
166	"	W. B. Day.....	" ".....	96 41
167	"	Henry Eulert.....	" ".....	50 00
168	"	J. H. Clough.....	Rent, March, 1898.....	200 00
169	April	30 W. A. Puckner.....	Salary, April, 1898.....	150 00
170	"	C. S. N. Hallberg.....	" ".....	142 85
171	"	F. M. Goodman.....	" ".....	135 71
172	"	Frank S. Hereth.....	" ".....	71 42

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
173	"	L. I. Schreiner .....	Salary, April, 1898.....	\$57 14
174	"	E. N. Gathercoal .....	" .....	50 00
175	"	Geo. E. Case .....	" .....	14 28
176	"	W. B. Day .....	" .....	96 41
177	"	Henry Eulert .....	" .....	50 00
178	"	J. H. Clough .....	Rent, April, 1898.....	200 00
179	"	W. B. Day, actuary .....	Petty expenses.....	35 83
180	"	The Neostyle Co .....	Paper .....	1 78
181	"	<i>The Inter Ocean</i> .....	Advertisement.....	5 00
182	"	The Chicago Telephone Co .....	Service .....	31 25
183	"	E. J. Abel & Co .....	Chemicals .....	1 80
184	"	Clark Bros. ....	Chloroform .....	4 41
185	"	Fuller & Fuller Co .....	Chemicals, etc .....	27 91
186	"	Goes Lithographing Co .....	Diplomas .....	12 50
187	"	Thayer & Jackson Station'y Co .....	Ink, etc .....	3 65
188	"	Donohue & Henneberry .....	Pads and paper .....	6 70
189	May 14	W. B. Day, actuary .....	Laboratory deposits refunded .....	67 43
190	"	E. J. Anthony .....	Printing .....	17 25
191	"	Thayer & Jackson Station'y Co .....	Stencil paper .....	1 50
192	"	The Neostyle Co .....	Paper and ink .....	1 19
193	"	W. B. Day, actuary .....	Expenses .....	112 13
194	"	Wendell & Co .....	Medals .....	20 00
195	"	Western Union Telegraph Co .....	Time service.....	3 00
196	"	H. Swannell .....	Expenses .....	15 68
197	May 31	W. B. Day .....	Salary, May, 1898.....	75 00
198	"	Henry Eulert .....	" .....	50 00
199	"	Goes Lithographing Co .....	Diplomas .....	13 50
200	"	W. B. Day, actuary .....	Expenses .....	39 25
201	June 30			71 21
202	"	Theo. C. Loehr .....	" .....	18 60
203	"	H. H. Rogers .....	" .....	4 75
204	"	Grimes & Sheehan .....	Replacing water pipe .....	4 50
205	"	Fuller & Fuller Co .....	Paint, etc .....	21 37
206	"	H. S. Cooper .....	Plastering and calcimining .....	53 00
207	"	D. O. Haynes & Co .....	Directory .....	5 00
208	"	E. J. Anthony .....	Envelopes, etc .....	54 00
209	"	S. W. Shattuck, business mgr .....	Sundry items .....	14 65
210	"	W. B. Day .....	Salary, June, 1898 .....	75 00
211	"	Henry Eulert .....	" .....	50 00

## SCHOOL OF MEDICINE WARRANTS.

No.	Date.	To whom.	For what.	Amount.
	1897.			
1	July 31	J. A. Wesner .....	Salary, July, 1897.....	75 00
2	"	W. A. Evans .....	" .....	50 00
3	"	W. T. Eckley .....	" .....	50 00
4	"	A. Gehrman .....	" .....	25 00
5	"	E. G. Earle .....	" .....	25 00
6	"	W. A. Pusey .....	" .....	41 66
7	"	J. S. Tomlinson .....	" .....	75 00
8	"	Miss E. M. Heelan .....	" .....	60 00
9	"	Geo. Johnston .....	" .....	40 00
10	"	Theo. Ticken .....	" .....	36 00
11	"	W. S. Royce .....	" .....	30 00
12	"	John McClain .....	" .....	25 00
13	"	<i>University of Chicago Weekly</i> .....	Advertisement.....	12 00
14	"	<i>Journal of Am. Medical Ass'n.</i> .....	" .....	16 00
15	"	West Side Hospital .....	Board .....	58 25
16	Aug. 31	Wm. A. Pusey .....	Petty expenses .....	100 00
17	"	D. A. K. Steele .....	" .....	50 00
18	"	Goes Lithographing Co .....	Printing warrant book, etc .....	14 84
19	"	S. W. Shattuck, business mgr .....	Gas .....	42 20
20	Sept. 15	Demonstrators' Ass'n of Ill. ....	Assessment No. 9 .....	63 00
21	Sept. 24	Blakely Printing Co .....	Printing catalogue, etc .....	368 38
22	"	J. G. Lobstein .....	Carpenter work .....	427 00
23	"	Illinois Marble and Granite Co .....	Marble and brass work .....	584 15
24	"	<i>Post Graduate School of Med.</i> .....	Advertisement.....	60 00

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
25	Sept. 24	Winkle.....	Advertisement.....	\$5 00
26	"	McDonough & Co.....	"	25 00
27	"	Wesleyan Argus.....	"	3 00
28	"	Chicago Clinical Review P. Co.	"	18 75
29	"	Arbutus.....	"	25 00
30	"	R. L. Polk & Co.....	Addressing envelopes.....	33 00
31	"	Densonian.....	Advertisement.....	2 50
32	"	J. A. Wesener.....	Salary, August, 1897.....	75 00
33	"	W. A. Evans.....	"	50 00
34	"	W. T. Eckley.....	"	50 00
35	"	A. Gehrman.....	"	25 00
36	"	E. G. Earle.....	"	25 00
37	"	W. A. Pusey.....	"	41 66
38	"	J. S. Tomlinson.....	"	75 00
39	"	Miss E. M. Heelan.....	"	60 00
40	"	Geo. Johnston.....	"	40 00
41	"	Theo. Ticken.....	"	36 00
42	"	W. S. Royce.....	"	30 00
43	"	John McClain.....	"	25 00
44	Sept. 30	Wm. A. Pusey.....	Expenses of stenographer, etc.....	65 00
45	"	D. A. K. Steele.....	Petty expenses.....	56 57
46	"	University of Chicago Weekly.....	Advertisement.....	12 00
47	"	Cameron, Amberg & Co.....	Circulars.....	87 80
48	"	Brazil & Chicago Coal Co.....	Coal.....	20 82
49	"	Geo. T. Johnson.....	Toilet paper.....	9 00
50	"	Anchor Portl'd Cement Pav. Co.....	Raising walks, etc.....	29 43
51	Oct. 2	Marshall Field & Co.....	Materials.....	28 12
52	"	Fuller & Fuller Co.....	Benzine.....	2 05
53	"	H. Ahrens.....	Sugar.....	1 10
54	"	H. C. Hall.....	Advertising in periodicals.....	390 00
55	"	Jewish Herald Publishing Co.....	Advertisement.....	12 50
56	"	Brunswick-Balke Collender Co.....	Chairs, settees, etc.....	86 26
57	"	Otto Chellberg.....	Repairing bells.....	2 25
58	"	Red Cross Hygienic Co.....	Phenosote.....	6 25
59	"	P. F. Pettibone & Co.....	Paper.....	17 50
60	"	Samuel I. Pope & Co.....	Pipe and fittings.....	74 91
61	"	R. T. Jones.....	Painting, calcimining.....	336 00
62	"	H. M. Hooker Co.....	Benzine.....	3 64
63	"	Lyons' Orchestra.....	Music furnished.....	30 00
64	"	Exhardt Catering Co.....	Catering.....	60 00
65	"	Orr & Lockett Hardware Co.....	Frames and plates.....	9 25
66	"	E. Baggot.....	Gas fixtures.....	32 00
67	"	Journal of Am. Medical Ass'n.....	Advertisement.....	16 00
68	"	Medical Recorder Pub. Co.....	"	16 85
69	"	G. L. Harvey.....	Architect's services.....	60 00
70	"	Knox College Coup d'Etat.....	Advertisement.....	3 00
71	"	J. A. Wesener.....	Salary, Sept., 1897.....	75 00
72	"	W. A. Evans.....	"	50 00
73	"	W. T. Eckley.....	"	50 00
74	"	Adolph Gehrman.....	"	25 00
75	"	E. G. Earle.....	"	25 00
76	"	W. A. Pusey.....	"	41 00
77	"	J. S. Tomlinson.....	"	75 00
78	"	Elizabeth M. Heelan.....	"	60 00
79	"	George Johnson.....	"	40 00
80	"	Theo. Ticken.....	"	36 00
81	"	W. S. Royce.....	"	30 00
82	"	John McClain.....	"	25 00
83	Oct. 15	Richards & Co.....	Chemicals.....	1,154 71
84	"	G. D. Evans.....	Labor and material on building.....	269 33
85	"	John Parsons.....	Painting.....	35 00
86	"	John G. Bentler.....	"	7 05
87	"	Orr & Lockett Hardware Co.....	Door holders.....	2 00
88	"	W. A. Pusey.....	Expenses of stenographer and rent.....	65 00
89	"	University of Chicago Weekly.....	Advertisement.....	6 00
90	"	Chicago Addressing Co.....	Addressing envelopes.....	5 60
91	"	D. R. Grant.....	Lockers.....	15 00
92	"	Columbia Typewriter Mfg Co.....	Ribbons.....	4 95
93	"	Fantus & Son.....	Printing, etc.....	32 50
94	"	Rogers, Pitkin & Hall.....	"	14 40
95	"	H. Schiller.....	Palms.....	5 00
96	"	Physicians Supply & Drug Co.....	Surgical supplies.....	10 41
97	"	Sharp & Smith.....	"	81 01
98	"	Searle & Herath Co.....	Drugs, etc.....	20 46
99	"	J. S. Ford Johnson & Co.....	Chairs.....	31 25
100	"	E. Baggot.....	Contract gas fixtures, etc.....	35 10

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
101	1897.	College of Physicians and Surg	Rent 6 months to Oct. 21, 1897.....	\$6,000 00
102	"	S. W. Shattuck	Salary 6 months, Oct. 31, 1897.....	200 00
103	"	Harvey Bogarth, Business Mgr	Advertisement.....	6 00
104	"	Rogers, Pitkin & Hall	Printing.....	42 40
105	"	Chicago Telephone Co.	Services to Jan. 1, 1898.....	31 25
106	"	The P. & S. Plexus	Advertisement.....	26 69
107	"	James R. Pyne	Inspection of boilers.....	8 00
108	"	Cameron, Amberg & Co	Printing, etc.....	54 20
109	"	H. Ahrens	Sugar, etc.....	9 81
110	"	Fuller & Fuller Co.	Drugs.....	119 76
111	"	United Typewriter & Sup. Co.	Typewriter.....	75 00
112	"	The Gale	Advertisement.....	4 00
113	Oct.	30 J. A. Wesener	Salary, October, 1897.....	75 00
114	"	W. A. Evans	"	50 00
115	"	W. T. Eckley	"	50 00
116	"	Adolph German	"	25 00
117	"	E. G. Earle	"	25 00
118	"	W. A. Pusey	"	41 66
119	"	J. S. Tomlinson	"	75 00
120	"	Elizabeth M. Heelan	"	60 00
121	"	George Johnson	"	40 00
122	"	Theo. Ticken	"	36 00
123	"	Mrs. F. A. Grubb	"	30 00
124	"	Grace M. Bryant	"	28 84
125	"	C. H. Kuby	"	20 83
126	"	C. A. Albright	"	15 00
127	"	C. C. Hummel	"	15 00
128	"	Robert Emmerson	"	6 00
129	"	John McClain	"	25 00
130	Nov.	15 J. N. Hostetter	Coal.....	31 01
121	"	James Clancey & Sons	Plumbing, etc.....	152 05
132	"	Wm. A. Pusey	Expenses and rent, Oct., 1897.....	75 00
133	"	S. J. Stebbins Co	Door holder, etc.....	8 60
134	"	Wm. J. Bohm	Tubes, etc.....	12 25
135	"	West Side Hospital	Boarding and nursing patients.....	24 60
136	"	Sharp & Smith	Table and chair.....	22 00
137	"	S. C. A. Bulletin	Advertisement.....	4 00
138	"	The Student	"	6 00
139	"	Chi. Clinical Review Pub. Co.	"	18 75
140	"	M. Bondy	Brooms, etc.....	7 05
141	"	Fuller & Fuller Co.	Drugs.....	1 50
142	"	S. W. Shattuck, Business Mgr.	Gas and alcohol.....	88 99
143	"	Lawrentian Paper Association.	Advertisement.....	2 50
144	"	The P. & S. Plexus	"	53 32
145	"	Chas. Traux, Greene & Co.	Surgical supplies.....	5 52
146	"	Marshall Field & Co.	Cloth.....	61 08
148	"	Gaertner & Begennas	Coil, manometers, etc.....	80 35
148	"	Robert Emmerson	Labor.....	88 00
149	"	J. N. Hostetter	Coal.....	66 05
150	"	Fuller & Fuller Co.	Drugs.....	36 47
151	Nov.	30 J. A. Wesener	Salary, November, 1897.....	75 00
152	"	W. H. Evans	"	50 00
153	"	W. T. Eckley	"	50 00
154	"	Adolph Gehrman	"	25 00
155	"	E. G. Earle	"	25 00
156	"	W. A. Pusey	"	41 66
157	"	J. S. Tomlinson	"	75 00
158	"	Elizabeth M. Heelan	"	60 00
159	"	Geo. Johnson	"	40 00
160	"	Theo. Ticken	"	36 00
161	"	Mrs. A. E. Grubbs	"	30 00
162	"	Grace W. Bryant	"	32 00
163	"	C. H. Kuby	"	25 00
164	"	C. A. Albright	"	15 00
165	"	C. A. Hummel	"	15 00
166	"	Robert Emmerson	"	8 00
167	"	John McClain	"	25 00
168	Dec.	20 Felix Lang, Superintendent	Repairs on meter.....	2 85
169	"	G. D. Evans	Dissecting table, windows, etc.....	29 81
170	"	F. P. Smith Wire & Iron Wks.	Wire guard.....	14 85
171	"	Brunswick-Balke Collender Co	Oak pulpit.....	11 25
172	"	Sharpe & Smith	Surgical supplies.....	35 13
173	"	Searle & Hereth Co.	Drugs.....	4 32
174	"	Fuller & Fuller Co.	Drugs, etc.....	7 76
175	"	Crerar, Adams & Co.	Pail of Kleansall.....	3 00
176	"	West Side Hospital	Boarding and care of patients.....	23 40

## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1897.			
177	Dec. 20	J. N. Hostetter	Coal	\$122 55
178	"	<i>P. &amp; S. Plexus</i>	Advertisement	26 66
179	"	Medical Recorder Pub. Co.	"	10 13
180	"	S. W. Shattuck, business mgr.	Gas	78 70
181	"	Geo. T. Butler	Services	200 00
182	"	Cameron, Amberg & Co.	Register, books, etc.	21 78
183	"	W. A. Pusey	Expenses of stenographer	75 00
184	"	D. A. K. Steele	Petty expenses	56 21
185	"	Editors <i>Index Medicus</i>	Subscription	25 00
186	"	E. Baggot	Gas fixtures	12 00
187	"	Physicians' Supply & Drug Co.	Absorbent cotton, etc.	7 55
188	"	<i>The Illini</i>	Advertisement	20 00
189	"	Richards & Co.	Sterilizers, tubes, etc.	181 82
190	Dec. 31	J. A. Wesener	Salary, December, 1897	75 00
191	"	W. A. Evans	"	50 00
192	"	W. T. Eckley	"	50 00
193	"	Adolph Gehrman	"	25 00
194	"	E. G. Earle	"	25 08
195	"	W. A. Pusey	"	41 68
196	"	J. S. Tomlinson	"	75 00
197	"	Elizabeth M. Heelan	"	60 00
198	"	George Johnston	"	40 00
199	"	Theo. Ticken	"	36 00
200	"	Mrs. A. E. Grubbs	"	30 00
201	"	Grace W. Bryant	"	32 00
202	"	Chas. H. Kuby	"	25 00
203	"	C. A. Albrecht	"	15 00
204	"	C. C. Hummel	"	15 00
205	"	Robert Emmerson	"	8 00
206	"	John McClain	"	25 00
	1898.			
207	Jan. 15	Richards & Co.	Repairing microscopes, etc.	18 22
208	"	West Side Hospital	Board and care of patients	65 62
209	"	Sharp & Smith	Cat gut	2 25
210	"	Fuller & Fuller Co.	Chemicals	45 39
211	"	Chicago Engineer Supply Co.	Valves, etc.	15 90
212	"	E. L. Nims	Repairs on telephone, etc.	5 20
213	"	T. L. Flood	Advertisement	2 75
214	"	<i>Journal of Amer. Med. Ass'n.</i>	"	15 00
215	"	<i>P. &amp; S. Plexus</i>	"	26 66
216	"	J. N. Hostetter	Coal	182 15
217	"	Varty Oil Co.	Boiler compound	5 00
218	"	Goodhart's New Method Lndry	Laundry work	22 22
219	"	Chicago Telephone Co.	Telephone services	31 25
220	"	W. A. Pusey	Expenses for stenographer, etc.	75 00
221	"	S. W. Shattuck, Business Mgr.	Gas	114 20
222	"	Demonstrators Ass'n of Illinois	Assessment No. 2	77 00
223	Jan. 31	W. A. Pusey	Salary for January, 1898	41 66
224	"	J. S. Tomlinson	"	75 00
225	"	Elizabeth M. Heelan	"	60 00
226	"	Geo. Johnston	"	40 00
227	"	Theo. Ticken	"	36 00
228	"	Mrs. A. E. Grubbs	"	30 00
229	"	Grace W. Bryant	"	40 00
230	"	Chas. H. Kuby	"	25 00
231	"	C. A. Albrecht	"	15 00
232	"	C. C. Hummel	"	15 00
233	"	Robert Emmerson	"	8 00
234	"	John McClain	"	25 00
235	"	J. A. Wesener	"	75 00
236	"	W. A. Evans	"	50 00
237	"	W. T. Eckley	"	50 00
238	"	A. Gehrman	"	25 00
239	"	E. G. Earle	"	25 00
240	"	S. W. Shattuck	Salary, three months	100 00
241	"	J. N. Hostetter	Coal	162 24
242	"	Geo. T. Johnson	Toilet paper	7 50
243	"	Chicago Clinical Rev'w Pub. Co.	Advertisement	13 75
244	"	<i>P. &amp; S. Plexus</i>	"	26 66
245	"	Richards & Co.	Apparatus	192 25
246	"	Fuller & Fuller Co.	Chemicals	47 99
247	"	West Side Hospital	Board and care of patients	22 50
248	"	Searle & Hereth Co.	Drugs	10 50
249	"	W. A. Pusey	Expenses of stenographer	78 86
250	"	S. W. Shattuck, Business Mgr.	Gas	107 20
251	Feb. 28	J. A. Wesener	Salary for February, 1898	75 00
252	"	W. A. Evans	"	50 00
253	"	W. T. Eckley	"	50 00



## Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
254	Feb. 28	A. Gehrman	Salary for February, 1898	\$25 00
255	"	E. G. Earle	"	25 00
256	"	W. A. Pusey	"	41 66
257	"	J. S. Tomlinson	"	75 00
258	"	Elizabeth M. Heelan	"	60 00
259	"	Geo. Johnston	"	40 00
260	"	Theo. Ticken	"	36 00
261	"	Mrs. A. E. Grubbs	"	30 00
262	"	Grace W. Bryant	"	40 00
263	"	Chas. H. Kuby	"	25 00
264	"	C. A. Albrecht	"	15 00
265	"	C. C. Hummel	"	15 00
265	"	Robert Emmerson	"	8 00
267	"	John McClain	"	25 00
268	March 15	W. A. Pusey	Expenses	80 50
269	"	Fuller & Fuller Co.	Chemicals	76 63
270	"	Marshall Field & Co.	Cloth, pins, etc.	70 63
271	"	Richards & Co.	Caustic, pepsin, etc.	11 74
272	"	The West Side Hospital	Boarding and nursing patients	34 50
273	"	Sharp & Smith	Nail files, etc.	3 25
274	"	Medical Recorder Pub. Co.	Advertisement	10 13
275	"	<i>P. &amp; S. Plecus</i>	" and copies of paper.	26 66
276	"	<i>The Northwestern</i>	"	6 00
277	"	E. D. Evans	Repairing buildings	26 10
278	"	Geo. L. Lenham Hardware Co.	"	4 85
279	"	S. W. Shattuck, Business Mgr	Gas bills	111 80
280	"	H. Ahrens	Soap, brooms, etc.	14 00
281	"	Library Bureau	Case	2 50
282	"	Goodhart's New Method L'ndry	Laundry	41 51
283	"	J. N. Hostetter	Coal	205 07
284	"	People's Gas Light & Coke Co.	Gas bills	77 40
285	"	P. F. Pettibone & Co.	Examination paper	8 50
286	March 31	J. A. Wesner	Salary, March, 1898	75 00
287	"	W. A. Evans	"	50 00
288	"	W. T. Eckley	"	50 00
289	"	A. Gehrman	"	25 00
290	"	E. G. Earle	"	25 00
291	"	W. A. Pusey	"	41 74
292	"	J. S. Tomlinson	"	75 00
293	"	Elizabeth M. Heelan	"	60 00
294	"	Geo. Johnston	"	40 00
295	"	Theo. Ticken	"	36 00
296	"	Mrs. A. E. Grubbs	"	30 00
297	"	Grace W. Bryant	"	40 00
298	"	Chas. H. Kuby	"	25 00
299	"	C. A. Albrecht	"	15 00
300	"	C. C. Hummel	"	15 00
301	"	Robt. Emerson	"	8 00
302	"	John McClain	"	25 00
303	"	D. A. K. Steele	Petty expenses	50 00
304	"	Richards & Co.	Crayons, centrifuge, etc.	4 75
305	"	H. Ahrens	Eggs, flour, etc.	1 13
306	"	Donohue & Henneberry	Advertisement	15 00
307	"	<i>The Illini</i>	"	20 00
308	"	D. A. K. Steele	Expenses of foot ball team, 1897	800 00
309	"	John G. Beutler	Repairing	5 15
310	"	James Clancy & Sons	"	6 31
311	"	Miller Chemical Engine Co.	Fire extinguishers recharged	1 50
312	"	E. Baggot	Electric lights and repairing	4 70
313	"	Armour & Co.	Pepsin	4 50
314	"	Fuller & Fuller Co.	Chemicals	23 06
315	"	E. L. Nims	Battery service	2 00
316	April 15	S. W. Shattuck	Salary, 3 months	100 00
317	"	W. A. Pusey	Rent and expenses	85 00
318	"	M. J. Corboy	Repairing	171 15
319	"	College Physicians & Surgeons	Rent, 6 months	6,000 00
320	"	Sharp & Smith	Instruments	1 80
321	"	E. Baggot	Filters and fitting	17 00
322	"	Fantus & Son	Letter heads and envelopes	5 00
323	"	Rogers & Hall	Printing and envelopes	30 25
324	"	Cameron, Amberg & Co.	Book, etc.	2 03
325	"	Gas Consumers' Ass'n.	Dues	7 50
326	"	Robert Emmerson	Preparing skeletons	80 00
327	"	The Searle & Hereth Co.	Tablets	5 66
328	"	Richards & Co.	Gelatine	16 90
329	"	Demonstrators' Ass'n of Ill.	Assessment	77 00

Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
	1898.			
330	April 15	Fuller & Fuller Co.	Chemicals	\$32 68
331	"	Journal of Am. Medical Ass'n.	Advertisement	16 00
332	"	P. & S. Plexus	"	26 66
333	"	University of Chicago Weekly.	"	6 00
334	"	Chicago Telephone Co.	Telephone service	31 25
335	"	Geo. Richards Parr	Kleansall	3 50
336	"	Goodhart's N. M. Laundry	Laundry work	18 71
337	"	Chicago Addressing Co	Addressing envelopes	5 00
338	"	J. N. Hostetter	Coal	126 60
339	"	People's Gas Light & Coke Co.	Gas	59 00
340	"	West Side Hospital	Boarding and nursing patients	38 10
341	"	Western Bank Note & Eng. Co.	Diploma plate and diplomas	512 50
342	April 30	J. A. Wesener	Salary, April, 1898.	75 00
343	"	W. A. Evans	"	50 00
344	"	W. T. Eckley	"	50 00
345	"	A. Gehrman	"	25 00
346	"	E. G. Earle	"	25 00
347	"	J. S. Tomlinson	"	75 00
348	"	E. M. Heelan	"	60 00
349	"	A. E. Grubbs	"	30 00
350	"	Grace W. Bryant	"	40 00
351	"	W. A. Pusey	"	41 66
352	"	Theo. Tiekem	"	36 00
353	"	George Johnston	"	40 00
354	"	Charles H. Kuby	"	1 86
355	"	John McClain	"	25 00
356	"	C. A. Albrecht	"	15 00
357	"	C. C. Hummel	"	15 00
358	"	Robert Emerson	"	8 00
359	May 14	Fuller & Fuller Co.	Chemicals	29 28
360	"	Richards & Co	Casseroles	2 25
361	"	The West Side Hospital	Care of patients	9 60
362	"	Sharp & Smith	Instruments	1 80
363	"	J. N. Hostetter	Coal	90 60
364	"	The P. & S. Plexus	Advertisement and copies of paper	26 66
365	"	Miller Chemical Engine Co	Recharging extinguisher	2 00
366	"	Geo. E. Cole & Co	Boxes	1 00
367	"	G. T. Johnson	Paper	7 50
368	"	H. Ahrens	Brooms etc	3 64
369	"	Auditorium Hotel	Banquet	267 50
370	"	Lyon's Orchestra	Service of orchestra	70 00
371	"	Goodhart's N. Method Laundry	Laundry work	14 56
372	"	D. A. K. Steele	Petty expenses	50 00
373	"	W. A. Pusey	Expenses	90 30
374	"	R. R. Donnelly & Sons Co.	Programmes	13 00
375	"	Rogers & Hall	Printing	27 75
376	"	C. L. Ricketts	Engrossing parchments	53 00
377	"	People's Gas Light & Coke Co.	Gas	45 40
378	"	A. H. Revell & Co.	Desk and chair	43 60
379	"	Ass'n of Am. Medical College.	Dues	5 00
380	"	Chicago Clinical Review Pub. Co.	Advertisement	18 75
381	"	J. Milhening	Medals	20 00
382	May 31	J. A. Wesener	Salary, May, 1898.	75 00
383	"	W. A. Evans	"	50 00
384	"	W. T. Eckley	"	50 00
385	"	A. Gehrman	"	25 00
386	"	E. G. Earle	"	25 00
387	"	J. S. Tomlinson	"	75 00
388	"	E. M. Heelan	"	60 00
389	"	E. A. Grubbs	"	30 00
390	"	Grace W. Bryant	"	40 00
391	"	W. A. Pusey	"	41 66
392	"	Theodore Tiekem	"	36 00
393	"	George Johnston	"	40 00
394	"	John McClain	"	25 00
395	"	C. A. Albrecht	"	15 00
396	"	C. C. Hummel	"	15 00
397	"	Robert Emmerson	"	8 00
398	"	D. A. K. Steele	Deposits refunded	1,271 05
399	"	Fuller & Fuller Co.	Chemicals	18 65
400	"	Sharp & Smith	Repairing	2 80
401	"	The Ranger	Advertisement	2 00
402	"	The Wesleyan Argus	"	2 60
403	"	The Voice Publishing Ass'n.	"	10 00
404	"	The Delphic Publishing Ass'n.	"	2 75
405	"	Knox Coup d'Etat	"	1 55

## Warrants—Concluded.

No.	Date.	To whom.	For what.	Amount.
406	May 31	<i>The Normal Advance</i> .....	Advertisement.....	\$2 00
407	"	<i>The Kansas University Weekly</i> .....	" .....	5 00
408	"	<i>The Chi. High School Review</i> .. ..	" .....	9 00
409	"	<i>The Vidette Reporter</i> .....	" .....	6 00
410	"	Egis Association .....	" .....	5 25
411	"	<i>Wrinkle</i> .....	" .....	5 00
412	"	<i>S. U. I. Quill</i> .....	" .....	4 00
413	"	<i>The Demsonian</i> .....	" .....	2 00
414	"	<i>College Index</i> .....	" .....	4 00
415	"	<i>The Student</i> .....	" .....	2 50
416	"	<i>The Knox Student</i> .....	" .....	3 50
417	"	<i>The Archæan Union</i> .....	" .....	4 80
418	"	<i>The Student</i> .....	" .....	3 00
419	"	<i>The Oberlin Review</i> .....	" .....	5 00
420	"	A. A. Stratford .....	" .....	1 20
421	"	<i>The Wabash</i> .....	" .....	3 00
422	"	<i>The Adelbert</i> .....	" .....	2 25
423	"	<i>The Hiram College Advance</i> .....	" .....	1 50
424	"	<i>The Oracle Co.</i> .....	" .....	2 60
425	"	<i>The Wooster Voice</i> .....	" .....	3 25
426	"	Hebard's Ware'ise and Van Co	Hauling.....	4 45
427	June 15	Imit. Typewrit'g and Add'g Co	Typewriting, addressing, etc.	186 42
428	"	D. A. K. Steele .....	Postage.....	1,330 00
429	"	<i>The '99 Syllabus</i> .....	Advertisement.....	6 00
430	"	Medical Recorder Publish'g Co	Advertising .....	10 14
431	"	<i>The P. and S. Plexus</i> .....	and copies paper.....	26 66
432	"	<i>The Hillsdale Collegian</i> .....	" .....	2 25
433	"	George E. Cole & Co.....	Printing.....	20 75
434	"	Library Bureau.....	Pens.....	1 00
435	"	J. N. Hostetter .....	Coal.....	43 86
436	"	Goodhart's N. M. Laundry.....	Laundry work.....	14 14
437	"	Columbus Food Laboratory..	Banquet.....	15 50
438	"	Marshall Field & Co.....	Cotton cloth.....	75 61
439	"	Physicians' Sup. and Drug Co.	Cotton .....	9 00
440	"	Richards & Co.....	Foil.....	40 10
441	"	Sharp & Smith.....	Instruments .....	6 75
442	"	Demonstrator's Ass'n of Ill. ....	Assessment.....	77 00
443	"	P. F. Pettibone & Co.....	Ruled sheets.....	12 75
444	"	Fuller & Fuller Co.....	Chemicals.....	9 63
445	"	William Allen Pusey.....	Expenses.....	91 25
446	"	People's Gas L't and Coke Co. ....	Gas.....	36 00
447	June 30	J. A. Wesener .....	Salary, June, 1898.....	75 00
448	"	W. A. Evans.....	" .....	50 00
449	"	W. T. Eckley.....	" .....	50 00
450	"	A. Gehrman.....	" .....	25 00
451	"	E. G. Earle.....	" .....	25 00
452	"	J. S. Tomlinson .....	" .....	75 00
453	"	E. M. Heelan .....	" .....	60 00
454	"	A. E. Grubbs .....	" .....	30 00
455	"	Grace W. Bryant.....	" .....	40 00
456	"	W. A. Pusey.....	" .....	41 66
457	"	Theodore Ticken.....	" .....	36 00
458	"	George Johnston.....	" .....	40 00
459	"	John McClain.....	" .....	25 00
460	"	C. A. Albrecht.....	" .....	15 00
461	"	C. C. Hummel.....	" .....	15 00
462	"	Fuller & Fuller Co.....	" .....	46 80
463	"	George Richards Parr .....	Kleansall.....	3 50
464	"	John G. Beutler.....	Oil, etc.....	9 90
465	"	<i>The P. and S. Plexus</i> .....	Advertisement.....	26 66
466	"	<i>The Univ. of Chicago Weekly</i> .....	" .....	12 00
467	"	The Proctor & Collier Co.....	" .....	17 50
468	"	The Searle & Hereth Co.....	Chemicals.....	6 40
469	"	Richards & Co.....	Laboratory supplies.....	556 02
470	"	Cap and Gown Co.....	Advertisement.....	10 00
471	"	<i>Western College Magazine</i> .....	Name service.....	25 00
472	"	<i>The P. and S. Plexus</i> .....	Postage.....	2 30
473	"	George E. Cole & Co.....	Binding.....	2 50
474	"	<i>Journal of Am. Medical Ass'n</i> .....	Advertisement.....	16 00
475	"	W. A. Pusey.....	Expenses.....	105 00

## BIENNIAL REPORT OF THE ILLINOIS STATE LABORATORY OF NATURAL HISTORY.

*To the Trustees of the University of Illinois.*

GENTLEMEN: In pursuance to your general instructions as contained in your proceedings for 1892 (June meeting), I submit the following report of operations of the State Laboratory of Natural History for the past two years.

These operations have been connected almost wholly with the work of the State Entomologist or with that of the Biological Station. As the State Entomologist's operations will be reported, under the law, to the Governor previous to the next session of the Legislature, I will only say with regard to them here that they have been directed mainly to the study of the life histories of some of the insects injurious to corn, to an examination of the shade trees and other ornamental vegetation of several of the larger towns of central Illinois, and to work on the San José scale, distributed throughout the State.

Further investigation of the corn insects was undertaken with a view to preparing for my next biennial report a second installment of a monograph upon that subject. The study of the insects injurious to shade trees is the beginning of what I intend to make an exhaustive survey of that topic in this State; and the work on the San José scale has taken the form of a further examination of suspected premises with a view to the possible occurrence of hitherto undetected colonies of that insect in the State, a very thorough and careful spraying with insecticide solution of premises known to harbor the scale, the introduction of two fungus parasites of the scale obtained by me on a personal visit to Florida last spring, and several lines of experimental work undertaken in the hope of finding some cheaper and more effective insecticide than the one now generally in use. In this same connection I have provided for a general inspection of nurseries throughout the State, made at the expense of the nurserymen. Upon receipt of the report of the condition of these nurseries from my inspectors, I have given to nurserymen official certificates setting forth the facts as to the existence on their premises of insects likely to be conveyed in trade to the injury of their customers.

The operations of the Biological Station have been carried on during the past two years along lines practically the same as those previously reported upon, except that we have done much more during the last two years with fishes than previously, with the expectation of completing a formal report upon the fishes of Illinois on which considerable progress had been made by me long before the opening of the Station.

This study of the fishes of the Station field was taken up systematically in July, 1897, by Prof. Frank Smith, and continued by him without interruption until September 1 of that year. In the summer of 1898 this was passed over to Mr. Wallace Craig, assigned to the Biological Station as its resident naturalist, and he will make this his principal occupation during this entire year. He has been handsomely provided with various kinds of apparatus for the collection of fishes in all the Station situations, including seines of all sorts, fish traps of various size and construction, set nets, and trammel nets. This work is being so conducted as to give us correct ideas not only of the

species occurring at the Station, but of their relative abundance and local distribution, their haunts, their habits, their regular migrations and irregular movements, their breeding times and places, their rate of growth, their food, their diseases and their enemies, and, in short, the whole economy of each kind there represented and of the whole assemblage, taken together as a community group.

Extensive studies of the aquatic entomology of the situation have also been made, and an elaborate paper on ephemeroidea and dragon-flies, the joint contribution of Messrs. Hart and Adams, of the laboratory staff, and of Professor J. G. Needham, who worked with us during a part of the summer of 1897, is now nearly ready for the press.

The so-called plankton work, the systematic study, that is, of the minuter forms of plant and animal life suspended in the water, has gone steadily forward under Dr. Kofoid's immediate care. Refinements and improvements of method, new forms of apparatus, and a vast mass of material which has been largely identified and studied by him are some of the more obvious results of our recent work in this field. No part of the work of the Station attracts more general attention among scientific men or is likely to lead to more interesting and important results.

By the Chemical Department of the University regular analyses of the waters of certain selected localities have been made during the entire two years, including one series of analyses of the gaseous contents of the water, made at Havana, one for each of twenty-four consecutive hours. This chemical work combined with the continuous biological work of the Station will, when generalized, furnish a most substantial authoritative body of knowledge of the conditions of the waters of the middle Illinois previous to the opening of the Chicago drainage canal which can scarcely fail to have a high utility for comparison with the results of similar studies made after that event.

Our main equipment—the cabin boat, the launch, and the smaller boats—has served our purpose perfectly, and the Station property is in good order and condition in all respects.

The summer school for 1898, for whose expenses you voted a guarantee fund of \$300, proved a disappointment only in the number in attendance, a deficiency easily accounted for in part by the lateness of the period at which we were able to announce our session, and in part by the fact that we could not offer last year certain local and personal inducements which may easily be provided for another session. Authority to advertise the school was not given until the March meeting of the Board this year, too short an interval thus remaining before our opening in June. For want of any special building of our own we were obliged to resort to the village school building at Havana, generously placed at our disposal without compensation by the school trustees, and students of the school were thus compelled to live in the town. Vacation life in a village boarding house with work in a school room offers too little relief from the ordinary experience of the student or teacher to be especially attractive in itself. If the school is to be maintained—and I sincerely hope that it may be—we should have a plot of land on the banks of Quiver lake, two miles and a half above Havana, should have erected there a building suitable for summer use as a students' laboratory, should provide facilities for life in camp to those who prefer them, and should also make it possible for students to live either at that place or in town.

Fifteen students were in attendance throughout our term of four weeks. The only instructors regularly engaged were Assistant Professor Frank Smith, of the Department of Zoölogy, and Instructor C. F. Hottes, of the Department of Botany. The work was carefully planned and very thoroughly and efficiently done, and was received very cordially by all in attendance.

Publication of papers has been made by the State Laboratory to the full limit of our appropriation for this purpose, nine articles of our Laboratory Bulletin, comprising four hundred and thirty-eight pages of text and sixty plates, having been printed and distributed during the last two years. They set forth mainly the general results of our Biological Station work combined with the results of studies by advanced students and the Station staff upon

other collections of the State Laboratory, but include also an article on scale insects of the State and one on insect disease. The influence of the State Laboratory upon the Department of Zoölogy is shown by the fact that three of the above papers, each a valuable contribution to science, have been prepared by University students in the course of their work for first and second degrees. Such work would have been entirely beyond their reach except for the materials, equipments, and literature provided by the Laboratory, which has also borne the expense of their publication and illustration.

With respect to the future of this work I am strongly of the opinion that a decided advance should be made in the Natural History Survey, for which the Laboratory is responsible under the law of its establishment. The annual appropriations made of late have been too small to provide for more than the necessary operations of the entomologist's office, which they are made to cover, and those of the Biological Station, with some incidental general work naturally growing out of the operations of these two establishments. I see no reason why the State of Illinois should not provide in a suitable manner for the energetic prosecution of this survey work which it long ago authorized, and I propose, consequently, to ask of the next Legislature a suitable sum for this purpose and a separate sum for the economic investigations for which the State Entomologist is responsible. I think, also, that the Legislature might well be asked to enlarge the field of the State Laboratory of Natural History to include an economic geological survey, with such topographical work as this might require, and a biological survey of the water supplies of the State, conducted with special reference to sanitary interests, a subject which is certainly not less important in some of its aspects than that of their chemistry.

For details respecting the various departments of the work of the Biological Station you are respectfully referred to the appended reports of the Station Superintendent, Dr. C. A. Kofoid, or Prof. A. W. Palmer, Director of the Chemical Survey, of Mr. Chas. A. Hart, Entomologist of the Station, and of Prof. Frank Smith, who served for a time as its Assistant Zoölogist and as principal instructor in the summer school.

Respectfully submitted,

S. A. FORBES,

*Director.*

REPORT OF THE SUPERINTENDENT OF THE BIOLOGICAL STATION.

*To the Director of the Laboratory.*

SIR:—The past two years have offered new and interesting conditions in the environment in which the work of the Illinois Biological Station has been prosecuted. The period of 1894 and 1895 was one of typical low water, without an extensive rise of the river during the spring and early summer, when such floods usually occur. On the other hand, these years were not marked by long uninterrupted periods of very low water. Under these conditions of two years of generally low water, without marked fluctuations, the lakes were thoroughly choked with vegetation, and even the banks of the river itself became fringed with a rank aquatic growth. A rise of 12.6 feet, culminating January 6, 1896, was succeeded by a series of minor floods at intervals of about two months throughout the year. The net result was an increase in the average height of the river for the year, which was 6.87 feet above the low-water mark—fully two feet above that of the average for the two years preceding. This was, then, a high-water year, without marked fluctuations, and the result was that the vegetation remained to a considerable extent in the lakes and the river. The year 1897 opened with rising water, which culminated January 23 at 12.9 feet, while a subsequent rise on March 27 reached a height of sixteen feet—the highest point attained since 1892. From this maximum the river fell slowly through the four months that followed, reaching a minimum early in August. From this time until the close of the year, in consequence of a general drought throughout the State, low water persisted, there being only a slight rise as evaporation was checked during the cooler weather of Autumn. In spite of the long-continued low

water the average height for the year was 6.9 feet—a slight increase over the preceding year. There was thus present the somewhat unusual condition of the continued high water during the first half of the year followed by an uninterrupted period of unusually low water in the second half, the change from the one to the other being quite abrupt. Under these circumstances the vegetation was largely removed or its excessive growth prevented. This long-continued low water worked marked changes in the topography of the bottomlands adjacent to Havana. Phelps lake dried up earlier than it did the preceding year, Thompson's lake showed a marked diminution, principally at the northern and southern ends, long stretches of soft mud or matted vegetation in which dead fish were abundant being exposed. This mud, after a few weeks' exposure, hardened and cracked open to a depth of a foot or eighteen inches, and a growth of shore grasses began to spring up on it. Quiver lake, especially along the west shore and in the region known as Dog-fish lake, was considerably reduced in area, and in the absence of any considerable amount of vegetation its depth was decreased more than usual. Flag lake, which in most years is a marsh with one to four feet of water filled with rushes, arrow leaves, water smartweed, water-lilies, and the lotus, dried up early and a wagon road was established across its bed. Havana lake, the expanse of the river above the mouth of Spoon river, presented the unusual appearance of a narrow river channel flanked on either side by a broad mud bank. The filling in and extension of these banks by the deposit of silt during recent years has been very marked, and is followed by an extension of the swamp willows over the rising banks.

In a general way the hydrological conditions of 1898 resembled those of 1897. The rise of the river began in January and continued through the winter, culminating April 2 at eighteen feet, a point equaled or exceeded but twice since 1879, at which time records were begun at the Government dam at Copperas Creek, eighteen miles above the location of the Station. As in 1897, the high water continued during the early summer, dropping rapidly in August to the minimum stage. It did not, however, reach the extreme condition of the previous year, several minor fluctuations having occurred at frequent intervals during the fall months. The reduction in the aquatic vegetation begun in the previous year has continued. The increased activity in the fishing industry has also contributed largely to the removal of the vegetation from the lakes and the river on the fishing grounds, so that the river is now practically free from vegetation, as is also the main body of Quiver lake and almost the whole of Thompson's lake, only a restricted area at the southern end retaining its former condition.

In previous years the field headquarters of the Station have been on Quiver lake, either at Foster's Landing or at the Indian mounds. In the fall of 1896 the new laboratory boat was brought down to town and was stationed at the public landing along the river front. This location has been retained during the last two years with the exception of a week in August, 1898, when the boat was moved up to the Twin Mounds during some continued work upon the plankton and gas analyses in the Illinois river near that point. The advantages of a location at town are the saving of the time required for transit to and from headquarters in the field and the expense of running the launch on these trips, and the ready access to the Station from living quarters at all times, while the distance from the collecting grounds is not greatly increased. Some disadvantages attend this location. The sheltered situation and the close proximity to the sand bluff increase the heat in the boat during the hot days in summer, and the nearness to the steamboat landing greatly increases the risk of damage to the boats and launch by the disturbance in the water caused by incoming and outgoing steamboats. Ropes and cavils are frequently broken, and boats are torn loose by the swells which follow in the wake of the larger steamers. On three separate occasions a steamboat in the

hands of an old and experienced pilot collided with our flotilla, resulting in the crushing and sinking of the steam launch in one instance, and in the breakage of glassware aboard the laboratory boat at another time. With the considerable and now increasing number of river craft of all sorts seeking temporary or permanent anchorage on the river front, we have been gradually crowded to the least desirable location, where the shore is somewhat springy, and where at low water access to our boat is possible only by means of a dike of sand or a trestle-work of planking, owing to the soft mud which is rapidly filling in the river front at this point. At such times our location is neither inviting nor salubrious. The crowding of the boats and the lax care usually given to such property in this locality greatly increase our danger of loss by wreck or fire while we remain in our present location. The experience of the past two years has only emphasized the necessity of the location of the Station at some suitable point—if at Havana, on Quiver lake—where we can control property which will afford us an abundance of room, freedom from disturbance, facilities for carrying on the shore operations that pertain to our work, and the location of breeding ponds.

The Station was occupied by the Station staff and in full operation in 1897 during the months of July, August, and September, and in 1898 from June 13 to October 1. In addition to this, monthly visits were made to it for plankton work during the winter and spring of 1897, and beginning with the autumn of 1897 visits were made for the same purpose until the full opening of the Station in June, 1898. As a result of these visits a very full series of winter collections has been accumulated. Since September 1, 1898, Mr. Wallace Craig, resident assistant at the Station, has been in charge during my absence. Previous to this time the property of the Station was cared for at such times by Mr. Miles Newberry, who has been in our employ as general collector, janitor and engineer for the past four years. His service has been efficient and faithful in all the manifold and varied tasks which fall to his hands.

The work of the Station has been in the main prosecuted along the lines established in previous years, with a few expansions in some directions and curtailments in others. The primary purpose of the Station, that of investigation, has been carried on along three principal lines: entomology, ichthyology, and the quantitative investigation of the minute life of the water. The entomological work has been in the hands of Mr. C. A. Hart, who was at the Station during considerable intervals in 1897 and 1898.

Investigation of the fishes was taken up in July, 1897, by Prof. Frank Smith, and was continued by him until September 1 of that year. In the summer of 1898 this work was taken up by Mr. Craig, and additional equipment has been provided. The Station was equipped with a hundred-yard river seine of an inch-and-a-half mesh, hung to fish eight feet; a forty-yard minnow seine of one-fourth inch mesh, hung to fish five feet; a thirty-foot minnow seine, hung to fish four feet; a Baird seine of the same dimensions; and a trammel net thirty yards in length and five feet in depth. The additions to the equipment consist of two set nets, one of three-fourths inch mesh and eighteen-inch hoops, the other of an inch-and-a-half mesh and four-foot hoops. Thirteen fish traps of quarter-inch galvanized wire netting were constructed especially for the work in deep water and in places where a minnow seine could not be used. They consist of a cylinder of netting ten inches in diameter, one end of which is closed by a circle of wood and the other by two successive funnels sloping inward, each with an opening three inches in diameter. For the capture of the smallest fish the nets are covered with fine wire cloth, and their efficiency is also increased by the use of wings of the same material or of minnow netting.

The plankton operations of the last two years have been carried on with increased regularity and greater attention to the correction of possible sources of error. The number of stations subject to regular examination at the beginning of the period covered by this report was seven; viz., the Illinois river two and a half miles above Havana, Quiver lake, Dogfish lake, Thompson's lake, Flag lake, Phelps lake, and Spoon river, the latter having been added to the list in August, 1896. The Illinois river Station was visited at intervals of one month until July, 1896, in which month



a number of examinations were made at frequent intervals during a remarkable development of a filamentous diatom, *Melosira*, in the plankton, and in correlation with gas analyses conducted by Professor Palmer. Weekly collections upon Tuesdays were begun August 3, 1896, and have since been maintained except when the condition of the ice or sickness necessitated a slight shifting of the day of collection.

The station in Quiver lake was visited during intervals of one month during the first half of 1897, but during the latter part of July and the month of August and September the interval was reduced to a week. In October fortnightly visits were commenced, and have since been maintained. In the summer of 1895 a plankton station had been established in the west arm of Quiver lake, known as Dogfish lake. Examinations were continued in this locality for two years at intervals of a month or less, but were discontinued in July, 1897. During much of the year the conditions at this station differed but slightly from those in Quiver lake. Vegetation is a trifle more abundant and its duration is more extended. Except at times of high water there is no current passing through this arm of the lake. The difficulty of access to this station at times of low water—due to the dense mat of *Ceratophyllum* through which the plankton boat must be rowed—were increased by the erection of a fence of wire netting across the mouth of the lake in the construction of a fish pond. In view of the similarity to Quiver lake and the difficulty of access, it seemed desirable to drop this station from the regular list, especially as the two years' collections of micro flora and micro-fauna will suffice for detailed comparison with the plankton of the main body of the lake.

Monthly plankton collections were made in Thompson's lake during the first half of 1897, but in July of that year a fortnightly interval was adopted and has since been maintained. This station is, next to the river, the most important one on our list, being located in the largest permanent body of water within the field of our operations. During the period of high water (three to four months of the year), it is of easy access, as it is possible at such times to run the launch through the "cut road" across the bottom lands to the south end of the lake. As the water falls access may still be had for some time with a row boat through the "cut road;" or at still lower water, through the "swale," a tortuous channel through the bottom land underbrush from the foot of Flag lake to Thompson's lake. When, however, the river falls below six feet, the only approach to this station is *via* Thompson's lake slough, a bayou connecting the lake with the river, leaving the latter at a point about six miles above Havana. Shallow water and a rank growth of aquatic vegetation found in some years at the northern end of the lake soon render it impossible to enter from the slough with the launch, and when the water falls below three feet a mud bar at the northern end of the slough necessitates making the remainder of the trip in a row boat. During the months of September, October, and the most of November, 1897, the river stood at the present low water mark, that is, about two feet by the gauge, and the lake was drained to the lowest limit reached since our operations were commenced at Havana. Its bed at the north end, for a distance of about three quarters of a mile, was exposed, leaving an expanse of the softest black ooze, through which a narrow, winding channel several feet in width, containing several inches of water, was kept open by our boats and those of occasional sportsmen. When winds from the north prevailed, even this insignificant highway was left bare. Under these conditions ingress and egress over and through this bed of ooze became a task of no small difficulty.

Owing to these two routes of approach to the lake, two points of collection have been established; one off Sand Point, in the northern half, and one about half a mile below Prickett's Landing, in the southern half. Both are in open water and at a considerable distance from vegetation, and are equally typical locations. Access to one of these two places is always possible during the period of open water, or when the lake is covered with thick ice, but when the ice is thin or rotten, it is at times only possible to work out a few rods from the shore with the aid of ax and ice-hook.

Plankton operations were not carried on in Phelps' lake in 1895, owing to the failure of the river to overflow the bottomlands sufficiently to invade and fill the lake. During this year a heavy crop of corn was raised in its fertile bed, but before it was harvested the following winter the water asserted its claim to this territory and has since held possession. The rise which culmi-

nated January 1, 1896, filled the lake, and the water slowly decreased until November, when the few shallow pools that remained were frozen solid. Water again entered the lake January 6, 1897, and the last pool was dried up about September 1 the same year. Toward the last of February, 1898, rising waters again poured into the lake, and owing to the high water of the past spring continued to occupy it and the adjacent territory until the middle of July. Since that time the depth of the water has decreased rapidly and by the middle of September the lake was reduced to a few large pools. During the first half of 1896 monthly collections were made, and since that date the interval has been reduced to a fortnight.

During the past year a drainage district has been organized in the territory including and adjacent to Phelps lake. The object of this organization is the reclamation of the fertile bottom south of Spoon river. A large dike is being built along the north limit of the district, reaching the river a short distance above the north end of Phelps lake. From this point it passes southward along the river bank for several miles to a point some distance below the mouth of Phelps lake slough, and then turns westward to the west bluff. The drainage of the enclosed area will be accomplished by several large ditches leading to the southeast, where pumping works are planned to insure the removal of the water when the surrounding country is flooded. Owing to the drainage of this lake our operations in this locality must cease with the present season, which leaves us in possession of quantitative collections extending through three years, in each of which the water entered in the winter or spring overflow, and was slowly removed by evaporation and seepage throughout the summer months, the catastrophe culminating in the late fall. We have thus in our possession a basis for a tolerably complete record of the seasonal fluctuations and changes in the fauna and flora incident to the drying up of this ephemeral body of water.

Since September, 1896, collections have been made in Spoon river at intervals of a month or less, and during this time a number of qualitative towings have been taken for us by Mr. W. R. Deverman, of Topeka, Ill., from the waters of Quiver creek. We have thus a good series of collections from tributary streams of the river for a comparison with those of the river itself.

A plankton station was established in September, 1895, in Flag lake, a large marsh between Thompson's lake and the Illinois river. Collections have been made here from that time at intervals of a month or less and were continued in 1897 until July. Owing to the abundance of vegetation in Flag lake this station was extremely difficult of access during the summer months, and owing to the abundance of flocculent debris of vegetation it was at all times difficult to secure a satisfactory quantitative collection from this body of water. As it was necessary to reduce the amount of field work, it seemed best for these reasons to drop this station permanently from the list of places subject to regular visitation. During the summer of 1898 plankton collections have been made from time to time at the mouth of Flag lake slough in the hope of finding here *Trochosphaera*, as in former years. None, however, could be found in this locality, or, indeed, in any other in our field of operations during the past summer.

As a rule the collections made at the plankton stations above enumerated included a vertical one, one from the surface, and one from the bottom water, all made with a pump and a net of No. 20 silk bolting cloth. In addition to these a catch from a liter of water from a vertical sample at each station was made with filter paper, and from five liters with the Berkefeld filter, the first method of filtration being introduced in September, 1896, and the second in November, 1897. The total number of bottles in the regular series for the years 1897 and 1898, each representing a different catch, is 1,075.

The collections above mentioned belong to the chronological series whose purpose is to afford a quantitative and qualitative representation of the changes through which the life in the water of the streams and the lakes examined passes during the course of a term of years. In addition to this series a considerable number of other catches have been made with a view to securing data upon certain allied and important phases of the plankton work.

The relation of the dissolved gases of the water to the amount and constitution of the life therein contained is an important problem, and an attempt to collect data has been made in connection with the chemical survey of the waters of the State. In July, 1897, Prof. A. W. Palmer, Director of this Survey, visited the Station and made a number of analyses of the oxygen dissolved in the surface and bottom waters in the lakes and river. In 1898 his visit was repeated, with Mr. R. W. Stark, assistant on the survey, and a number of similar analyses were made, the carbon dioxide being also determined. A series of collections extending throughout twenty-four hours was made from the surface and bottom waters of the Illinois river with a view of determining the diurnal fluctuation in the amount of the dissolved gases. In all these operations parallel collections of the plankton have been made at the same time and from water collected in the same manner, the plankton pump being used for the collection both of the plankton and the water for gas analysis. The twenty-four-hour series collected in 1898 can be brought into correlation with the movements of the water-bloom, which is a marked feature of the plankton of the river during the warmer months of the year. About one hundred bottles are comprised in the collections belonging in this series.

The serial plankton work rests upon the supposition that a single catch made in a typical locality of a lake or river will give a fair sample of the microscopic life of the water, both as to its quantity and constituent organisms. With a view of testing the validity of this supposition, Thompson's, Quiver, and Mantanzas lakes and the river have in previous years been subject to extended examinations, collections being made on the same date at a considerable number of localities at regular intervals throughout the body of water examined. In 1897 Thompson's lake was re-examined on this plan and a biographical cross section of the river was made at Harvard. The series of collections has been increased by twenty-five bottles during the period covered by this report.

The tests looked toward the detection and correction of sources of error in the plankton method and the justification of changes in it which we have made, have been continued during the past two years. Of the collections made in these tests about one hundred and fifty have been preserved. Tests have been made of the errors resulting from leakage, from the progressive clogging of the drawn net and the consequent variable coefficient, and from the active escape of the larger organisms of the plankton. Several types of funnels for the in-take of the plankton plump have also been devised and tested. Tests of the leakage through the silk and efforts to correct it by some form of micro-filter or precipitation method have also been continued. A variety of filters have been examined, including the Sedgwick-Rafter sand filter, using sharp Berkshire sand according to the directions of Calkins,\* Jackson†, and Whipple‡. The loss by leakage from this filter was so great that we abandoned it and have been using filter paper as a supplementary method of collection since September, 1896, in all regular plankton examinations. For a short time ordinary filter paper was used, but owing to the looseness of its texture and consequent entanglement of the plankton and shedding of lint we rejected this paper and have since used the "hardened filter paper," No. 575, Schleicher & Schull. The water from which the sample for filtration is taken has been obtained by means of the pump. It was often necessary to take a much larger amount than was used filtration in order to secure a vertical collection. To obviate this and also to secure greater accuracy in the collection of a vertical sample, a vertical water-trap was devised, which consists of a light brass tube three inches in diameter and eight feet long, at whose lower end is a sliding brass gate by which the bottom of the tube can be closed after it is lowered to the desired depth.

Although the filter-paper collections served to correct the loss by leakage in

\*Calkins, G. N.—The Microscopical Examination of Water. Rep. Mass. State Board of Health, 1891, pp. 396-421. 2 folding tables.

†Jackson, D. D.—An improvement in the Sedgwick-Rafter Method for the Microscopical Examination of Water. Tech. Quart, Vol. ix, pp. 271-274. 1896.

‡Whipple, G. C.—Experience with the Sedgwick Rafter Method at the Biological Laboratory of the Boston Water Works. 1 bid. pp. 275-279. 1896.

an important degree, the method was defective in that a small portion of the catch, varying with the amount and character of the plankton, remained on the filter paper, entangled in the fibres of its surface. To obviate this difficulty and to secure, if possible, a method which would be effective and permit the handling of a large quantity of water, experiments were made with the centrifuge. The small machine described in the last report and adopted by us for use in the measurement of plankton collections was found to precipitate a large per cent of the organisms present in the water, accordingly a larger machine was devised and built at the mechanical shops of the University for this purpose. It consisted of a hollow cylinder axis of gun-metal with two returning arms, each bearing at the elbow a detachable receptacle which receives the solid matter precipitated from the water, which last passed through the revolving axis and out to the tips of the elbows before it returns to the axis for discharge at the lower end. This machine is geared to give, with power, 8,000 revolutions per minute. When fitted with cranks for two men, four to five thousand revolutions can be obtained. This apparatus was tested with water from the river at a time when it was full of water bloom,—formed principally of *Carteria*,—and also with water from the lakes in varying kinds and amounts of plankton. It proved to be more effective in the removal of the plankton than any method previously tried, but the operation of the machine by hand was extremely laborious, and the precipitation of the plankton was very slow. Furthermore, a variable and oftentimes considerable amount of the plankton—especially that found in the water-bloom—is at times lighter than the water, and thus can not be removed by centrifugal force with the heavier constituents.

In November, 1897, a Berkefeld army filter (system Bruckner), was added to the plankton equipment. It is very efficient in removing all the solid matter from the water, and its operation with ordinary samples is quite rapid. It consists of a force pump and a cylinder of diatomaceous earth, upon which the plankton and silt contained in the water are collected. This is removed by washing with a brush, but in the process a part of the substances of the cylinder is brushed off. This debris is added to the silt of the water and renders subsequent microscopic examination more difficult. The brushing is also disastrous to some of the more delicate organisms, but leaves by far the greater part of the minute forms which escape the silt intact and in suitable condition for enumeration.

During the past two years some progress has been made with an examination, measurement, and enumeration of the plankton of the regular series, though much of the time has been given to the preparation of plankton apparatus and the improvement of the method. In this work the examination of the test collections by the enumeration method has been particularly time-consuming. The work of enumeration has been facilitated by the use of a set of six counting machines, which enable the observer to keep a record of six different species at once without the mental effort of carrying the count in the mind. An extended amount of this work remains to be done before we shall utilize to any considerable extent the collections now accumulated. This work will be necessary to the full confirmation of the results of our investigation, and will also be very valuable in suggesting new fields for development, especially along experimental lines. The present provision for this work is quite inadequate to a prompt return for our present investment in this department of the operations of the Station. The enumeration of the smaller organisms, especially under the higher powers of the microscope, is particularly taxing upon the eyes, and long continued application is a severe strain upon the nerves of the plankton statistician. I believe it to be possible by the expenditure of a small amount of money to secure student aid for some of this work in such a way as to render promptly available a considerable portion of the now latent results of our plankton work.

The sanitary analysis of the water in connection with the chemical survey of the waters of the State have been continued. Weekly samples have been collected through the two years from the Illinois river and from Spoon river on days when plankton examinations have been made. Similar regular collections were commenced in Thompson's and Quiver lakes in September and October of 1897, and have been continued in connection with the fortnightly

plankton work. The total number of samples for sanitary analyses collected at the Station and shipped to Champaign during the two years is two hundred and eighty. As these analyses include the determination of the free and albuminoid ammonia, the nitrites and nitrates, the chlorine, and the oxygen consumed, they will furnish data of great value for a comparison with those derived from the plankton work.

The shipment of samples to Champaign for an analysis of the gases dissolved in the water was begun July 23, 1897, samples being sent from the surface water of the river for the determination of the oxygen. In August fortnightly surface samples from Thompson's and Quiver lakes were added to the shipments, and in November additional samples were sent from each of these localities for an analysis of the carbon dioxide. With the beginning of 1898 samples were collected from both the surface and the bottom waters of the three localities above mentioned for the determination of both the oxygen and the carbon dioxide. This involves the collection and shipment of eight bottles of water from each of the three stations—a total of about nine hundred and fifty samples being shipped in 1897 and 1898. The water was collected with the plankton pump by means of a small pet cock inserted in the discharge pipe. A rubber tube is fastened upon this and inserted in the bottle and water sufficient to fill the bottle three times is pumped through it. The bottle is then closed, the sample being collected with a minimum contact with the air. If the change in the water between the time of collection and the time of analysis does not vitiate the results, we shall find these gas determinations of great importance in the discussion of the plankton data.

The equipment has been maintained in first-class condition so far as the wear and tear of property subject to the vicissitudes of an aquatic environment will permit. The hull of the laboratory boat has been provided with salt shelves and its bottom thoroughly salted to insure its preservation. The decks and guards have been painted repeatedly, and the canvas roof has received a heavy coat of paint. The floors have also been treated with several coats of oil. Three years experience in our floating laboratory has only increased our satisfaction with its fitness and convenience for the work of a biological station.

The steam launch, with the new equipment of machinery described in the last report, has been of great service. A few repairs have been made from time to time upon the engine, and the boiler and stack have been provided with a shield to decrease heat in the launch. New tubes have also been placed in the boiler. In 1897 the steamer "Josie Sivley" collided with the "Illini" while she was at anchor on the river front, and crushing her against the guard of the laboratory boat opened a seam up the larboard side and broke several ribs and a staunchion. The launch sunk in shoal water and was easily raised, the damage being subsequently thoroughly repaired. In the spring of 1897 Mr. Newberry secured an engineer's license, and has since cared for the launch.

During the session of the summer school the carrying capacity of the launch is severely taxed in providing transit for the field excursions of the classes. At no time is the speed very great, seven miles an hour being the maximum maintained. Furthermore, the draught of the boat interferes with its greatest usefulness in the shoal waters in which at times our work compels us to go. It is only a question of time when extensive repairs will be necessary upon the hull. I would therefore recommend that an effort be made to secure a larger boat with more powerful machinery so as to carry more passengers and, if necessary, to tow a barge. Greater speed and less draught can be secured with such a boat. It would also enable us to considerably extend the field of our operations. Such a launch will be a prime necessity when the work of the Station is extended to the Mississippi river.

The outfit of small boats, which consist of two lap-streak lake-boats, one lap-streak river boat, and an Illinois river skiff, has been supplemented by the addition of a large flat-bottomed seine boat twenty feet in length with five-foot beam for the plankton work. The increasing complexity of this work and the variety of apparatus necessary for its performance has made the load required

for a plankton trip too cumbersome for an ordinary boat. The total weight of the boat when manned and loaded with the outfit and water samples is not less than one thousand pounds. The increased attention given to winter work has necessitated the adaptation of the boat to the exigencies of that season. The bow and sides are protected with a sheath of zinc, and while the ice prevails the bottom is shod with two steel runners. With the boat thus equipped it is usually possible by rocking the boat and skillful manipulation of the ice-hooks to beat a way through the thin and rotten ice which will not carry the weight of the load, while the runners allow the boat to slide easily over the surface of the smooth ice wherever this is strong enough to bear the weight. The greatest difficulty attending transit in the field in the winter occurs at times when the river is low and access to Thompson's lake must be had by portage across the bottomlands at the southern end of the lake. A pair of wheels has been rigged up for this work, but in wet weather or after heavy snows they are hardly adequate to the task.

In the fall of 1896 the rented quarters which the Station had occupied in town were given up, and the property there accumulated was placed on board the laboratory boat. When the Station was opened the following summer it was necessary to secure storage elsewhere for property of a bulky nature or that for which there was only occasional use, and by the courtesy of the Illinois State Fish Commission we utilized a corner of their warehouse on the river front until the burning of the building in September. We suffered no loss of consequence, and our property, some of it in a damaged condition, was then returned to the laboratory boat for the winter. In 1898 the problem of storage was temporarily solved by the purchase of a cheaply constructed cabin boat twelve by twenty feet.

Although no formal opening of the Station to students was made during the summer of 1897 and no advertisements of its facilities was undertaken, a few applicants for places were accommodated under the conditions attending the opening of the Station to such persons in previous years. The following is a list of those in attendance and the lines of work pursued.

H. C. Beardslee, A. B., Instructor of Science, University School, Cleveland, Ohio. Fleshy fungi and Mycetozoa.

Miss Bertha V. H. Forbes, B. S., Teacher of Biology, High School, Austin, Ill. General biology.

H. M. Kelly, A. M., Professor of Biology, Cornell College, Mt. Vernon, Iowa. Trematoda parasitic in Unionidæ.

S. D. Magers, B. S., Principal of High School, Houston, Texas, Algæ and general biology.

H. L. Roberts, Superintendent of Schools and Principal of High School, Farmington, Ill. General biology.

The following year a summer school of biology, with regular courses in botany and zoology and offerings of advanced work in zoology was planned, and authorized at the March meeting of the Board of Trustees. The school was well advertised in the educational journals, and preliminary and final circulars were distributed as far as possible among the teachers of the State. Extended advertising in the neighboring states was not attempted. The Station staff was mainly responsible for packing and shipping the equipment sent over by the University and the State Laboratory and for its return, for the registration of students, and for the financial management of the school. No effort was spared to make the equipment of the Station of use to the school. The board of education of Havana placed the high school building at our disposal for the summer school, and the teachers' institute in session during the opening days was transferred to one of the churches by the county superintendent, Mr. M. Bolan.

The following is a list of the persons in attendance and their present positions:

Miss Anna L. Baldwin, Science Teacher, High School, Pittsfield, Ill.

T. L. Cook, Superintendent of Schools, Mt. Pulaski, Ill.

Wallace Craig, B. S., Assistant of the Illinois State Laboratory of Natural History, Havana, Ill.

Miss Louise S. Dewey, B. S., Fellow in Physiology, University of Illinois, Urbana, Ill.

C. C. Faust, Superintendent of Schools, Mansfield, Ill.

J. F. Garber, A. B. Instructor in Biology and Mathematics, High School, Houston, Texas.

J. T. Johnson, Teacher of Biology, High School, Galesburg, Ill.

Miss Nellie I. Kofoid, B. S., Science Teacher, High School, DeKalb, Ill.

J. E. Meharry, Student, University of Illinois, Tolono, Ill.

Mrs. Sara E. Pierce, Principal of High School, Havana, Ill.

W. E. Praeger, Student, University of Illinois, Keokuk, Ia.

L. H. Pratt, Teacher, Clear Creek, Ill.

F. W. Schacht, M. S., Principal of High School, Chicago Heights, Ill.

Otto Widmann, Student, University of Illinois, Old Orchard, Mo.

C. W. Youngs, B. S., Assistant in Botany, University of Illinois, Urbana, Ill.

The total number enrolled in the School was fifteen. Of these nine are teachers of natural science in this and other states. Three of those in attendance are now connected with the University as assistants or fellows. Nine of the fifteen students of the school have been or are connected with the University, three are now undergraduates, and six have received their diplomas, two of them remaining as graduate students. This summer school of biology might be made a very efficient means of attracting attention to the facilities which the University offers for instruction in the sciences, since students availing themselves of the opportunities of the summer school are apt to be drawn to the University for further work.

Although the number in attendance was not so large as had been expected, still certain features of the enterprise are encouraging. Among these is the cordial response of the citizens of Havana to those needs of the school which can be supplied only by local support. There was no difficulty in securing pleasant and comfortable accommodations for all in attendance; and a much larger number would not have exhausted the facilities offered. From its beginning the Station has received generous treatment at the hands of the business men of the town. Indeed, the granting of a site for a Station building upon the public river front on the bluff overlooking the river has been urged in the local press. A second encouraging feature is the satisfaction expressed by those in attendance with the work they have been able to accomplish in Havana, and the frequently repeated desire to continue it when opportunity offers.

Very respectfully yours,

C. A. KOFOID,

*Superintendent of Biological Station.*

#### REPORT ON WATER ANALYSES.

*To the Director of the Laboratory.*

SIR: During the two years just passed the number of water samples, from the streams and lakes in the vicinity of Havana, Illinois, which were examined by the State Water Survey as conducted by the department of Chemistry of the University, were as follows: Illinois river and Spoon river 102 samples from each, these being regular weekly collections from each of these sources. The collections from Quiver lake number, all told, 28, and a like number has been taken from Thompson's lake. The waters from these different sources have been subjected to the regular sanitary analysis and

there has been in the different seasons of the year considerable variation in the quantities of organic matters contained, but it is to be noted that the quantities of organic matters in the water of the Illinois river and in the lakes adjacent thereto are ordinarily very high even for surface waters. During the last twelve months the average in the river and also in the lakes shows that the quantity of sewage contained has been considerably less than it was during the preceding twelve months, due of course to the fact that there have been repeated periods of high water and a more generally distributed rainfall during the year of '97-'98 than was the case during '96-'97.

Attempts have also been made during the last year to determine the quantity of dissolved oxygen and of dissolved or free carbonic acid gas in the waters of the Illinois river and the lakes at Havana. We have met with considerable difficulty in making these determinations because of the necessity of doing most of the work here at Champaign. The conditions are particularly unfavorable for work at a distance because of the large quantities of organic matters contained in the water, and, further, because these matters are in a state of putrefactive change, that is, are undergoing somewhat rapid decomposition. The determinations of dissolved oxygen, consequently, commonly give us figures somewhat too low. Tests made on the spot at the time of collection show that the quantity of dissolved oxygen is ordinarily diminished very quickly on standing a few hours, particularly when the vessels containing the water are exposed to the light. Our results, however, have been obtained under practically similar conditions throughout the season and they show considerable variation, at times the quantity of dissolved oxygen being exceedingly low, while at other times the quantity reached the approximate maximum figure. This is true not only of water contained in the river, but also of the water of the lakes. The data which we have in hand have not yet been digested and can not be until the work has been carried on somewhat more extensively. The free carbonic acid,—that is the carbonic acid which exists not in combination with the bases in the water, but as gas merely dissolved in the water—varies yet more greatly than does the dissolved oxygen. At times there seems to be none present; at other times the quantity present is quite considerable; but these determinations are even more greatly influenced by permitting the samples to stand, or by the time which elapses during their transportation to the laboratory, and we can not at present attach very great importance to the results which have hitherto been obtained.

We expect soon to be able to extract gases from water by means of an air pump, and then we shall be in a position to obtain results which will not be influenced by the conditions mentioned above, and, provided we shall be able to have collections carefully made at Havana, the work can very easily be continued and completed here at the University.

Since early in the summer of 1897 we have made regular determinations of dissolved oxygen and of carbon dioxide in samples taken from the Illinois river and from Thompson and Quiver lakes, but the earlier results are less reliable than those obtained during the last six months, and these later results are themselves not sufficiently reliable to be made at present the basis of any general conclusions.

Yours very respectfully,

ARTHUR W. PALMER,  
*Professor of Chemistry.*

REPORT OF THE ENTOMOLOGICAL ASSISTANT.

*To the Director of the Laboratory.*

SIR:—During the season of 1897 I was in the field, primarily for entomological observation and collection, from June 29 to August 13, giving attention particularly to the gathering of information and material for use in completing our work on *Odonata* and *Mollusca*. In 1898 two visits to the field were made for work on *Odonata*, *Ephemera* and *Mollusca*; a week in spring, from April 19 to 25, and two weeks in midsummer, from June 21 to July 7.



The accumulations of material and notes were already sufficiently large for group studies at the beginning of the two year period covered by this report. Every opportunity has been taken to make desirable additions to them, and they now stand as a superb basis for the study of any group of aquatic forms. The material is all arranged by orders, and consists of about 4,250 vials and bottles of specimens.

There are now in various stages of preparation four papers, mainly on the entomology of the biological station field, one each on the *Odonata*, the *Ephemera*, the fresh water *Mollusca* and the aquatic *Coleoptera*. The order of procedure which I have endeavored to pursue in the preparation of these papers, and which seems to lead to the most satisfactory and accurate results, is as follows: First, the collection of a large quantity of material and data under the greatest possible variety of conditions as to locality, surroundings, stage of water, season and time of day; then the careful study of these, in connection with the literature, and the making of copious notes and sketches preliminary to the preparation of manuscript, all evident deficiencies either in material or data being carefully noted down; next, a return to the field at times and places indicated by the previous collections for the special purpose of supplying, as far as possible, these deficiencies, and finally, after further study of the literature, the writing of the manuscript.

In the preparation of the paper on the *Odonata* I have had the valued assistance of Prof. J. G. Needham and Mr. C. C. Adams, who have furnished the systematic work on the nymphs and adults respectively, while it has been my part to discuss the biology and ecology of the group and its species and to combine the several manuscripts into a single paper—now nearly ready for the press. Under Mr. Adams' supervision the State Laboratory Artist, Miss Hart, has prepared a valuable series of 134 drawings illustrating the abdominal structures of nearly all our Illinois species, and a series of general drawings of the nymphs and their distinguishing structures is well under way.

For the article on *Ephemera*, the Station collections and notes have all been examined and the results are nearly ready to be put in manuscript form. It would add greatly to the usefulness of the paper, however, if a study of the large series of nymphs of this order in the general collections of the State Laboratory could be made before the article is completed.

Much time and labor have been spent on the *Mollusca* in the endeavor to place the study of this group on a truly scientific basis. Not merely the shell but all parts of the animal were studied, full use being made of the unusual facilities at the Station for work of this kind. The univalves of the Station collection have been determined by Mr. H. A. Pilsbry, of the University of Pennsylvania, and the *Sphaerium* and *Pisidium* by Dr. V. Sterki. More time could profitably be spent on the biology of the *Unionidae*, but otherwise the notes are ready to go into manuscript form.

The collections of water beetles have been exhaustively studied and determined, but the systematic examination of the immature stages has not yet been reached.

Respectfully submitted,

C. A. HART,

*Entomological Assistant.*

#### REPORT ON THE SUMMER SCHOOL OF 1898.

To the Director of the Laboratory.

SIR:—Of the fifteen persons in regular attendance at the summer school twelve were either teachers or preparing to teach, in our public schools. Five of them had received training in the laboratories of the University of Illinois, but nearly all of them were without any considerable experience in fieldwork or in the methods of collecting and preserving aquatic organisms. On this account especial prominence was given to tri-weekly excursions for collecting and field observation, and these furnished probably the most important elements in the work of the session. With the steam launch, row boats, and

needful collecting equipment of the Biological Station the entire party made trips to Matanzas, Thompson's, and other lakes within reach of Havana. The use of the Station launch made the excursion highly enjoyable, and by reducing to a minimum the time *en route* gave the party ample opportunity for observing, collecting, and preserving such animals and plants as would best repay further study, or would be useful in the laboratories or museums of the high schools in which the various teachers present were interested. The work done in the laboratory by the several members of the school was largely determined by their past experience and the application to be made of of the knowledge acquired.

Soon after the opening of the session it became evident that the needs of the students would be best met by dividing their time equally between the zoology and botany; the forenoons were accordingly given to the former, and the afternoons to the latter.

In the department of zoology emphasis was given to the lines of work most useful to teachers. Material collected on excursions was used in various ways. For correct methods of dissection as well as better knowledge of anatomical details some work in dissection was done. Time was also given to acquiring the best methods of preserving specimens of various kinds of animals, as *Hydra*, worms of various groups, mollusks, *Crustacea*, insects—both larval and mature—and fishes. The identification of annelid worms, insects, mollusks, and fishes received due attention, and was aided by named collections belonging to the State Laboratory, and also by literature and by a number of synoptic keys to these groups prepared by members of the State Laboratory staff. As a result of this part of the work, teachers were enabled to take home with them properly preserved and named collections of various kinds of animals. All persons not already familiar with the ordinary methods of section cutting and the making of permanent microscopic preparations had practice in such work.

The work in botany consisted of as thorough a study of the aquatic and terrestrial flora of the surrounding region as the time would allow. The algæ of the Illinois river and connected waters were studied with special reference to their morphology and reproduction. The relation between land and water plants, both as to their differences in morphology and distribution, was observed and discussed on the field trips.

The phanerogams of the vicinity were treated with special reference to their adaptation for protection and cross fertilization. Instruction in the methods of the collection and preservation of herbarium material was given to those who desired it. The systematic work on the higher plants was in the nature of a study of the characteristics of orders from different representatives rather than by following an artificial key.

General plant physiology was illustrated by demonstrations with apparatus such as can be employed in laboratories of limited equipment. In the field special attention was paid to the movements of plant parts as influenced by light, temperature, and progress in seed development. Time at the end of the month was devoted to a discussion of the matter presented and its adaptation to the needs of the secondary schools, with which most of those present were connected.

Each student was provided with a first-class compound microscope for use in both botany and zoology and had also the use of a microtome and an abundance of apparatus, reagents, and general laboratory equipment from the zoological, botanical, and entomological laboratories of the University. An abundance of literature for general reading as well as for work on special groups was provided from the libraries of the University and the State Laboratory.

The instruction in field and laboratory was supplemented by lectures on special forms and groups of animals, and by others, of general biological interest on cell division, development, parasitism, cross-fertilization of plants, adaptive modifications for protection, etc.

Very respectfully yours,

FRANK SMITH,  
*Assistant Professor of Zoölogy.*

## AGRICULTURAL EXPERIMENT STATION.

To the Board of Trustees of the University of Illinois.

GENTLEMEN:—By action taken by your honorable body at your meeting held June 9, 1896, the organization of the Agricultural Experiment Station was changed so that instead of a Board of Direction, to which the staff of Station officers were responsible, the office of Director was established, and this officer was charged with the entire responsibility for the work and business of the Station. By your appointment I was made Director of the Station and have continued in charge.

### PRINCIPAL LINES OF WORK.

The energies of the Station have been directed principally to experiments in cattle feeding to determine variations in animals; variations in milk; production of pure milk; breeding of Indian corn; methods of cultivation of Indian corn; chemistry of the corn kernel; testing different treatments on permanent plats of prairie soil; the white clay soils of Southern Illinois; the sugar beet for Illinois; spraying for insect and fungus enemies of fruits; observations on varieties of apples, pears, and grapes; smuts and their prevention; the smut of broom-corn, sorghum, and Indian corn.

I beg leave also to refer you to reports in detail made in March, of 1897, and March, of 1898.

### PUBLICATIONS.

Eight regular bulletins, Nos. 45 to 52, inclusive, and one special bulletin, and the tenth and eleventh annual reports have been published and distributed during the two years at an expense of \$2,065.32. The bulletins contained in all 252 pages. The annual report for the years 1896-7 and 1897-8 contained 18 and 16 pages respectively. One thousand copies of each were printed.

Besides these eight circulars were published. The articles contained in the bulletins and circulars were as follows:

*Bulletin No. 45*, 17,000, July, 1896, 32 pp. Varieties of Apples.

*Bulletin No. 46*, 17,600, January, 1897, 24 pp. Experiments with Corn. Attempts to grow Crimson Clover. On the Improvement of Retentive Clays; Drainage of the So called "Hard Pan" Lands of Southern Illinois. On the Importance of Physiological Requirements of the Animal Body; Results of an Attempt to Grow Cattle Without Coarse Food.

*Special Bulletin*, 2,500, March, 1897, 4 pp. Smuts and Their Prevention.

*Bulletin No. 47*, 17,000, March, 1897, 48 pp. Broom-Corn Smut.

*Bulletin No. 48*, 17,000, April, 1897, 16 pp. The San José Scale in Illinois.

*Bulletin No. 49*, 18,000, January, 1898. The Sugar Beet in Illinois, 52 pages, 13 illustrations.

*Bulletin No. 50*, 17,000, February, 1898. Cost of Production of Corn and Oats in Illinois in 1896, 24 pp.

*Bulletin No. 51*, 17,000, May, 1898. Variations in Milk and Milk Production, 28 pp.

*Bulletin No. 52*, 17,000, June, 1898. Orchard Cultivation, 24 pp., 13 illustrations.

*Annual Report, 1896-7*, 1,000, 18 pp. and cover.

*Circular No. 3*, October, 1897, 1,000. Instructions for Taking Samples of Sugar Beets for Analysis, 2 pp.

*Circular No. 4*, December, 1897, 1,000. Alfalfa, 4 pp.

*Circular No. 5*, December, 1897, 1,000. The Cow Pea and the Soja Bean, 4 pp.

*Circular No. 6*, December, 1897, 1,000. The Sugar Beet in Illinois, 4 pp.

*Circular No. 7*, January, 1898, 1,000. Sugar Beet Convention, 2 pp.

*Circular No. 8*, March, 1898, 1,000. Spraying Fruit Trees, 3 pp.

*Circular No. 9*, April, 1898, 1,000. Instructions for Growing Sugar Beets.

*Circular No. 10*, May, 1898, 1,000. Experiments in Corn Cultivation.

Respectfully submitted,

EUGENE DAVENPORT,

*Director of Agricultural Experiment Station.*

## SPECIAL REPORT OF THE SCHOOL OF PHARMACY.

---

*To the Trustees of the University of Illinois.*

Gentlemen: The Chicago College of Pharmacy, now the School of Pharmacy of the University of Illinois, was founded in 1859 by a number of pharmacists of Chicago and vicinity for the purpose of affording to their apprentices and to others a course of pharmaceutical instruction,—a course not then to be had at any school or university in the West.

At its inception, the course consisted entirely of lectures, given during the evening hours, when the clerks could best be spared from their duties in the drug stores.

As the institution grew, the scope of the course was extended, laboratory instruction was introduced and made a feature, day classes replaced those which had been conducted in the evening, and an excellent equipment was gradually provided.

At the time of its union with the University, the course given by the School, and leading to the degree of graduate in pharmacy or pharmaceutical chemist, embraced instruction covering a period of two school years of seven months each and amounting to seven hours daily for three days each week. The annual attendance at this time was 160 and the total number of graduates nearly 900. The College possessed a serviceable equipment and occupied a leased building, which had been erected especially for its use. Chicago real estate, amounting to a little more than two acres, also formed a part of the college property.

Until this time, the College had been governed by an association of which any graduate of the school or pharmacist of the state might become a member. Under this government all receipts in excess of the running expenses were used in adding to the equipment of the school.

The trustees of the corporation had long been of the opinion that the college should be made a part of some university, and as the State, through the pharmacy law, demanded a pharmaceutical training of those desiring to qualify for the practice of pharmacy, it was the unanimous opinion of the members of the college association that the school should preferably be joined to the State University.

This union was effected upon the first of May, 1896.

At the session following, the attendance showed a decided increase, the number of matriculants being 181. A year later, however, the school felt the effects of the business depression, very marked in drug lines particularly, and the attendance decreased to 140. During these two years 80 students were graduated.

At the request of the President of the University, the state pharmaceutical association at the annual meeting held in July, 1896, nominated ten pharmacists, from whom the president was to select five, to constitute an advisory board, whose aim would be to aid the University management in an advisory capacity, in the government of the school. It was further arranged that these first members should serve for one, two, three, four and five years respectively, new members to serve five years, and that one new member should be

selected annually from among three names submitted, these three being nominated, by ballot, by the pharmacists of the state. This arrangement was perfected and the Advisory Board, so created, has held two annual meetings and has, at each meeting, presented to the Trustees a report embodying suggestions touching the School of Pharmacy.

The course of instruction now given at the school, is such as is, in the opinion of the faculty, best fitted to impart to the student a thorough and practical knowledge of pharmacy and of the sciences intimately related. It includes a careful exposition of the principles of pharmacy; ample practice in pharmaceutical manipulations; the manufacture of many typical galenical preparations, and drill in the compounding of prescriptions; as well as a thorough consideration of theoretical chemistry; laboratory practice in qualitative and quantitative analysis, especially with reference to the identification and valuation of drugs and medicines, and a presentation of the salient facts of inorganic and organic chemistry, from a pharmaceutical standpoint; also such instruction in botany and microscopy as may best prepare the student for the ensuing study of the various crude drugs, these being considered with reference to their identification, purity, chemical constituents, physiological effects and therapeutic uses.

At a meeting of the School of Pharmacy Committee of the University Trustees, together with the Faculty of the School, which meeting was held September 2nd, 1897, it was decided to recommend to the Board of Trustees of the University that the course for the degree of Pharmaceutical Chemist be lengthened so as to require a school-year of post-graduate work after the completion, by the student, of the two year course. It was further recommended that the advanced work consist chiefly of chemistry and be of such nature as to qualify the student for expert work, in this line, such as might fall within the province of the pharmacist to perform. A third recommendation was that a special laboratory and equipment be provided for this course. These recommendations were adopted by the Board of Trustees at the meeting held September 21st, 1897, and it is expected that the extended course will be put in operation during the coming year.

The diploma of this school, conferring the degree of Graduate in Pharmacy, entitles the recipient to registration in twenty-two states of the Union, but it does not do so in our own State, the pharmacy law of which recognizes no diploma whatever and obliges all candidates for registration to come before the State Board of Pharmacy for examination. While a graduate of any first-class school of pharmacy should not fear an examination before any state board, yet it would seem inconsistent that the State, through its pharmacy law, should not recognize the instruction given under its own supervision.

Another feature of our pharmacy law, and one that is unjust to the schools of pharmacy generally, is that the time spent by the student at a school of pharmacy is not recognized as "experience." For this reason, the young man who has worked in a drug store for four years and who has not attended a school of pharmacy, is eligible for examination before the Board of Pharmacy, while the young man who has been engaged in pharmaceutical practice for the same period, but who has devoted a part of his time to attendance at a school of pharmacy, is not eligible and becomes so only when he has had four years of actual drug store experience. Evidently, some provision should be made, such as the pharmacy laws of many other states contain, which would provide that the time spent at a school of pharmacy should count as "experience," with the provision, preferably, that such credit should not exceed two years. As the law stands at present, a young man is temporarily disqualified for registration because he has attended a school of pharmacy.

A feature of the course at this school, is that opportunities are provided for students to earn their living expenses while attending, by devoting a portion of their time to drug store practice. The facilities in this respect afforded by a large city, enable many young men to gain an education in their chosen profession, who would not otherwise, for financial reasons, be able to do so.

The indications for the coming session point to a larger attendance, and with the prospective establishment of the post-graduate course and the additions to the equipment of the school, the prospects for the future are bright.

Excepting only the physician, there is no person who holds such a responsible position, in regard to the public health, as does the pharmacist. To fit him for the assumption of this responsibility, a special training, such as is afforded by the best schools of pharmacy, is necessary. The scope of his training must be continually extended to keep pace with new duties and increasing demands upon the pharmacist's knowledge and skill. The University is to be commended for its efforts toward providing better facilities for the acquisition of this knowledge and skill and toward the elevation of the standard by which these attainments are judged.

Respectfully submitted,

W. B. DAY.

*Secretary of the Faculty.*

## THE SCHOOL OF MEDICINE.

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*To the Trustees of the University of Illinois.*

GENTLEMEN:—Since the absorption of the College of Physicians and Surgeons of Chicago by the University, the number of students attending that institution has increased from 308 to 510.

The comparative thoroughness of its curriculum is set forth in the recently issued decennial report of the Minnesota State Board of Examiners. In Minnesota all applicants for license to practice medicine are required to pass the examination of the State Board, no matter how many diplomas they have.

Of the graduates of the School of Medicine of the University of Illinois who have taken this examination, fifteen per cent have failed; whereas, twenty-two per cent of the graduates of the Northwestern University Medical School and thirty and one-half of the graduates of the Rush Medical College, subjected to the same ordeal, failed.

Our School of Medicine includes a well organized and well sustained Medical Society, under the control of students, which meets bi-weekly, and has an average attendance of forty.

The Quine Library now contains 2,500 standard medical treatises and a wealth of periodical medical literature. It is believed to be the most active medical library in Chicago, the average daily attendance being 85.

Co-education in medicine, a problem that was regarded with much anxiety by the medical faculty, has proved a gratifying success. There are now thirty ladies in the classes and they sustain themselves very creditably in every department of work. Separate parlor and dressing rooms are provided for them and they are treated with every consideration by the young gentlemen of the school. They have just organized a Greek letter society.

The College Gymnasium is, as yet, somewhat primitive as to quarters and equipment, but it is none the less appreciated and used by the students of both sexes. It is the only medical school gymnasium in Chicago. Bath rooms are connected with it.

The Y. M. C. A. parlors in the school are comfortable and commodious and not equaled by any like institution in the Mississippi Valley.

The College Museum is growing vigorously and the equipment of the school is rapidly enlarging in every direction.

The enthusiasm of students and harmonious coöperation of teachers make a cheering prophecy of the future of the school. A little more than one-third of the students have degrees on admission, and the number of these has noticeably increased of late years. It is expected that arrangements will be made before the opening of another session, whereby the entrance requirements of the School of Medicine will be exactly the same as those of other departments of the University, and students may obtain a degree in science and a degree in medicine, on six years of work—three of which shall be done in Urbana and three in Chicago.

The Football Team is the champion medical team of this section of the country.

The College Glee and Mandolin Club recently organized, is in the throes of preparation for its first public performance in Studebaker Hall, February 15th, proximo.

For competitive examinations, for hospital appointments, participated in by the students of all the medical colleges of Chicago, the students of the School of Medicine of the University of Illinois may be confidently depended on to sustain the credit of their *alma mater*.

Respectfully submitted,

W. E. QUINE, *Dean*.



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