

# EIGHTEENTH REPORT

(Seven annual, eleven biennial.)

OF THE

## BOARD OF TRUSTEES

OF THE

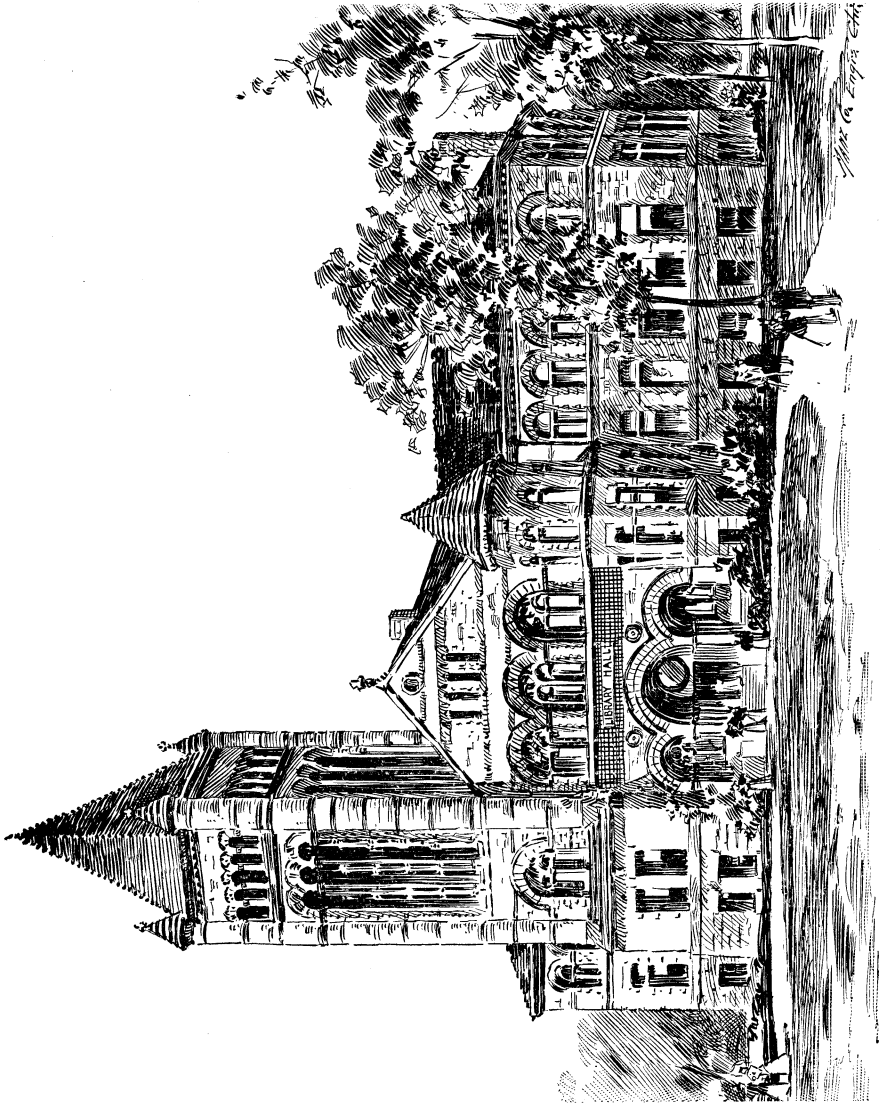
# UNIVERSITY OF ILLINOIS

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

FOR THE TWO YEARS ENDING SEPTEMBER 30, 1896.

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PHILLIPS BROS., STATE PRINTERS.  
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UNIVERSITY OF ILLINOIS,  
URBANA, November 1, 1896.

*Honorable JOHN P. ALTGELD, Governor of Illinois.*

SIR:—I have the honor to submit to you herewith, in compliance with the law, the eighteenth report of the Trustees of the University of Illinois, for the two years ending September 30, 1896.

I am, very respectfully, your obedient servant,

WILLIAM L. PILLSBURY,  
*Corresponding Secretary.*

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---

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---

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## STATE LABORATORY OF NATURAL HISTORY.

---

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Director of State Laboratory and State Entomologist.  
*1209 Springfield Avenue, Urbana.*

FRANK SMITH, A.M.,  
Assistant Zoölogist. *310 West Clark Street, Champaign.*

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Curator of Collections. *927 West Green Street, Urbana.*

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Assistant Entomologist. *201 West Church Street, Champaign.*

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Superintendent of Biological Station. *909 California Avenue, Urbana.*

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HENRY CLINTON FORBES,  
Librarian and Business Agent. *928 West Green Street, Urbana.*

LYDIA MOORE HART,  
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---

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Consulting Entomologist. *1209 Springfield Avenue, Urbana.*

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Consulting Veterinarian. *511 West Park Street, Champaign.*

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Assistant Agriculturist. *1006 West Illinois Street, Urbana.*

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Assistant in Charge of Dairy Experiments.  
*1003 South Wright Street, Champaign.*

GEORGE PERKINS CLINTON, M.S.,  
Assistant Botanist. *913 California Avenue, Urbana.*

JOSEPH CULLEN BLAIR,  
Assistant Horticulturist. *1411 West Springfield Avenue, Urbana.*

---

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[Formerly the Chicago College of Pharmacy, 465-467 State Street, Chicago.]

---

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---

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*Food, its Adulteration and its Preservation.*

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Associate Professor of Human Physiology and Vertebrate Anatomy.

*Embryology.*

CHARLES ATWOOD KOFOID, PH.D.,  
Superintendent of the Biological Station of the University.

# Summary of Students, 1894-95.

COURSES AND CLASSES.	University.							Preparatory School.		University and Preparatory School.	
	Graduate School.	Resident Graduates.	Juniors.	Sophomores.	Freshmen.	Specials.	Men and Women.	Total.	Men and Women.	Total.	Total Men and Women.
Agriculture, Men.				3	4	2	9	9	7	7	16
Mechanical Engineering, Men.	4	10	11	15	26		66	66	20	20	86
Electrical Engineering, Men.		9	23	19	38	2	91	91	17	17	108
Civil Engineering, Men.	2	16	14	13	24	2	73	73	9	9	82
Municipal and Sanitary Engineering, Men.								2			2
Architecture { Men.	2	1	14	16	18	17	3	71	11		82
Architecture { Women.					1	1	2	73	1		83
Architectural Engineering, Men.		4	2	2	6	1	15	15	4	4	19
Chemistry { Men.	1	5	2	11	11	2	37	40	2	3	39
Chemistry { Women.			2		1		3		1		4
Pharmacy, Men.				2	3	1	6	6	5	5	11
Natural Science { Men.	3	4	2	14	12	1	36	49	11	20	47
Natural Science { Women.	1	1	5	3	2	1	13	49	9		22
Mathematics { Men.			1	1	1		3	4	1		4
Mathematics { Women.					1		1				1
English and Modern Languages { Men.	5	11	9	7	26	5	63	104	19	31	82
English and Modern Languages { Women.	3	2	6	9	9	12	41		12		53
Latin { Men.		1	1	3	6		11	26	3	6	14
Latin { Women.	1	3	3	3	4	1	15		3		18
Classical { Men.	1	1	4	1	7	8	25	29	7		32
Classical { Women.			2				4		4	11	40
Art and Design { Men.					1		3	13			14
Art and Design { Women.		2		2			10		1		11
Music, Women.							2	2			2
Physical Training, Women.		1				1	2	2			2
Total { Men.	17	5	80	87	115	183	24	511	116		627
Total { Women.	5	4	12	11	18	19	24	93	31		124
Total.	22	9	92	98	133	202	48	604	147		751

Add for Summer School, 1894, those not counted above.	{ Men.	18	30
	{ Women.	12	
Add for Winter School in Agriculture, 1895, those not counted above.	{ Men.	28	29
	{ Women.	1	
Total, 1894-5.	{ Men.	673	810
	{ Women.	137	

*Summary of Students, 1895-96.*

COURSES AND CLASSES.	University.							Preparatory School.		University and Preparatory School.	
	Graduate School....	Resident Graduates.	Seniors .....	Juniors .....	Sophomores .....	Freshmen .....	Specials .....	Men and Women....	Total .....	Men and Women....	Total .....
Agriculture, Men.....	1	...	2	2	6	3	14	14	3	3	17
Mechanical Engineering, Men.....	4	12	11	12	23	4	66	66	13	13	79
Electrical Engineering, Men.....	2	17	19	25	36	2	101	101	25	25	126
Civil Engineering, Men.....	1	11	8	18	22	3	64	64	10	10	74
Municipal and Sanitary Eng., M.	...	2	1	...	...	...	3	3	...	...	3
Architecture { Men.....	...	13	16	12	20	6	67	70	9	9	76
Architecture { Women.....	...	1	1	1	1	1	3	...	...	...	3
Architectural Engineering, Men.....	...	5	2	3	6	...	16	16	2	2	18
Chemistry { Men.....	...	7	8	7	5	1	28	31	2	2	30
Chemistry { Women.....	...	2	...	1	1	...	3	...	...	...	3
Pharmacy, Men.....	...	...	1	1	6	1	9	9	4	4	13
Natural Science { Men.....	3	5	9	4	19	2	42	69	22	28	64
Natural Science { Women.....	2	3	2	3	14	3	27	6	6	33	97
Mathematics { Men.....	...	2	1	2	2	...	7	10	...	...	7
Mathematics { Women.....	1	...	1	1	...	1	3	...	...	...	3
English and { Men.....	1	9	5	13	28	...	56	100	21	37	77
Modern Languages { Women.....	1	1	5	5	16	8	44	16	16	37	60
Latin { Men.....	...	2	...	8	6	1	17	37	3	5	20
Latin { Women.....	1	4	3	4	6	2	20	...	2	...	22
Classical { Men.....	...	2	3	6	5	...	16	22	5	11	21
Classical { Women.....	2	...	1	1	3	...	6	...	6	...	12
Philosophy { Men.....	3	2	1	3	7	3	19	21	1	1	20
Philosophy { Women.....	...	...	1	1	...	...	2	...	...	...	2
Art and Design { Men.....	...	...	...	...	1	1	1	19	...	...	1
Art and Design { Women.....	2	...	...	1	1	14	18	...	...	...	18
Music, Women.....	...	...	...	...	...	10	10	10	1	1	11
Physical Training, Women.....	2	...	...	...	...	...	2	2	...	...	2
Total { Men.....	15	1	87	88	117	191	27	526	120	...	646
Total { Women.....	5	7	17	11	16	43	39	138	31	...	169
Total .....	20	8	104	99	133	234	66	664	151	...	815

	Men.	Women.	Total.
Summer School, 1895.....	14	13	27
Winter School in Agriculture, 1896.....	17	1	18
Total.....	31	14	45
Deduct those counted twice.....	4	1	5
University and Preparatory School.....	27	13	40
	646	169	815
Total for 1895-6.....	673	182	855

PROCEEDINGS  
OF THE  
BOARD OF TRUSTEES  
OF THE  
UNIVERSITY OF ILLINOIS,  
FOR THE  
Year Ending August 31, 1895.

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MEETING OF SEPTEMBER 25, 1894.

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The Board of Trustees of the University of Illinois met in the office of the State Superintendent of Public Instruction, in Springfield, Illinois, at 2 o'clock p. m., Tuesday, September 25, 1894. There were present Governor Altgeld, and Messrs. Armstrong, Bullard, Graham, McKay, McLean, Raab, and Raymond; absent, Messrs. Bryant, Gore, Morgan, and Morrison.

The minutes of the meetings of June 5, 1894, and August 1, 1894, were approved.

On motion of Mr. McKay, it was voted that President Draper, the deans of the colleges, and two members of the Board of Trustees, should be a committee to make arrangements for the installation of the President, and the dedication of Engineering Hall, these exercises to be held November 15, 1894. Messrs. Armstrong and McKay were subsequently appointed as members of this committee from the Board of Trustees.

The Executive Committee made the following report, which was confirmed on motion of Mr. McKay:

REPORT OF EXECUTIVE COMMITTEE.

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

GENTLEMEN:—Your Executive Committee met in Chicago, August 17, 1894, with all the members present. President Draper and Mr. Morgan were also present.

It was voted that a room be added to the farm house on the south farm; and the request from the tenant for new corn-cribs and repairs on the barn was referred to Mr. Morrison, Chairman of the Farm Committee, with instructions to examine into the matter and have such improvements made as should be found necessary.

The following appointments were made: Mr. H. S. Grindley, assistant in chemistry, salary \$100.00 a month; Mr. A. C. Burnham, assistant in mechanical engineering, salary \$80.00 a month; Mr. F. A. Sager, assistant in physics, salary \$80.00 a month; Mr. I. H. Allen, storekeeper in the electrical engineering laboratory, salary \$30.00 a month. These appointments were all for ten months, beginning September 1, 1894.

In regard to the model school authorized by the Board of Trustees to be organized in connection with the course in pedagogics, it was voted that since Professor McMurry, at whose request the organization of a model school was made, had withdrawn from the Faculty of the University, the organization of said school be referred to President Draper with power to act.

Professor Burrill was appointed President of the Board of Direction of the Experiment Station and asked to accept the place for the present year.

President Draper and Professor Burrill were authorized to appoint a chemist for the Experiment Station, at a salary not to exceed \$2,000.00 a year.

It was ordered that inasmuch as the time set for the September meeting of the Board occurs during the week in which the Illinois State Fair is to be held in Springfield, the Secretary be instructed to announce the meeting to be held in the office of the Superintendent of Public Instruction, at Springfield.

S. A. BULLARD,

*Acting Secretary.*

N. W. GRAHAM,

*President.*

President Draper was then requested to present his report.

#### PRESIDENT'S REPORT.

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

GENTLEMEN:—In view of the very recent date upon which I entered upon this position, I have but little to report.

The University entrance examination commenced on the 6th inst. The 10th and 11th inst. were registration days, and instruction was resumed on Wednesday, September 12th. The registration up to date is as follows:

University.....	590
Preparatory School.....	108

This is an increase of about sixty over last year. The spirit of the Faculty and students of the University at the opening seems as hearty and buoyant as could be desired.

The members of the corps of instruction are all on duty, except that Mr. James David Phillips, instructor in general engineering drawing, and Mr. Fred Herbert Dodge, instructor in athletics, are absent sick. As to the time when they will likely be able to return it is impossible to say. The position held by Mr. Phillips has been temporarily filled and, in the opinion of the Dean of the College of Engineering, the interests of the University are being satisfactorily taken care of. There is no one discharging the duties of instructor in athletics. I have a communication from a physician in Chicago, under whose charge Mr. Dodge is, saying that it may be some weeks before he can go on with his work. The Athletic Association has engaged Mr. Louie de P. Vail, of Peoria, to coach the foot-ball team, and has addressed a communication to the Board requesting assistance in meeting the expenses involved. I should be glad to have this done so far as the Board is able to do it, and it occurs to me that Mr. Vail might be given the position of instructor in athletics until Mr. Dodge is able to resume it, or until the termination of the foot-ball season. There is very little done in the way of indoor athletics until the cold weather puts an end to outdoor work. This course would at least go some way towards assisting the Association to meet its engagements.

The University is seriously embarrassed by the failure to complete the new Engineering Hall according to contract. All plans had been predicated upon having possession of the building at the beginning of the year. The building

has made somewhat more rapid progress since the first of August, but there seems to be no reason to believe that it will be ready for delivery to us before the middle of November.

The Military Band is in need of some new instruments, in the place of some which have become unfit for use, which are so expensive that we can hardly expect individual members to supply them. I transmit herewith a communication from the leader of the band, with the endorsement of the professor of military science, in reference to the matter. It is needless to say that this band is of great service to the University and should have whatever assistance it is practicable to give it, and I therefore recommend an appropriation of the sum of three hundred dollars for band instruments.

Pursuant to the resolution adopted at the last meeting of the Board, on motion of Governor Altgeld, a circular was prepared in August, showing the advantages of the University, and was broadly distributed. The cost of the same consumed but a comparatively small part of the fund appropriated for the purpose, and I respectfully recommend that the balance be re-appropriated for the purpose of publishing other documents showing buildings and equipment of the University, for distribution.

I report also that I have received a communication from Miss Kate Cary, making a claim against the Board for the sum of fifty-four dollars for expenses incurred by her in preparing herself for teaching a model school, which it was proposed to establish in the University, but which has been abandoned. There was never any authority given, as I understand it, for the employment of Miss Cary, but it is probable that she was given reason to believe she would be employed in the capacity referred to. If we have been under any honorable obligations in the premises they have been discharged by the proffer of another situation of larger pay nearer her home, which has been declined. I am, therefore, unable to recommend the claim.

I submit the following important communication from the Librarian:

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

GENTLEMEN:—Before the library of the University of Illinois can be, in any sense, of efficient service to the Faculty and students, and be worthy of comparison with the libraries of the other great universities of the country, certain glaring defects in its equipment and economy demand a remedy. To gain this object no large sum of money is required. A small appropriation made now will meet a need out of all proportion to the actual amount called for, and will insure against the necessity of spending a still greater sum in the future. In other words, the longer the delay incurred in adopting modern methods in the management of the library, the more costly will be their final and unavoidable introduction.

(1) The proper classification and cataloguing of the library—of the first importance if we are to know what we have and all that we have, and how instantly to find any desired book—is the first need. A card catalogue equipment, calculated to meet the requirements of the library for the next ten years or more, should be purchased at the outset, and will cost \$200. One which would prove less economical in the end, but would be cheaper now, would cost about \$125. The purchase, however, of a smaller outfit, for more pressing immediate needs, is by no means advisable, involving, as it would, a waste, in the end, both of library space and of money. It should be added that the set of drawers now used by us is becoming crowded, and is, moreover, of awkward design and inconvenient for use. It is hardly necessary to say, in conclusion, that the Library Bureau is the patentee and sole manufacturer of approved card-catalogue outfits.

(2) In order that the daily work of the library may be carried on, and, at the same time, system and method be introduced into the chaos of literature which has been accumulating ever since the founding of the University, the employment of a skilled cataloguer—a person who can work rapidly and intelligently and is familiar with the Dewey “Decimal System of Classification”—is indispensable. The securing of such an assistant is the more necessary if the University Librarian’s position is to be one of more importance or dignity



than that of general drudge and man of all work. With a skilled assistant under him, he could enlarge the scope of his usefulness, and, by offering instruction and practical training in bibliography, library economy, and the use of books, vastly increase the mutual benefit to be derived both by the students from the library and by the library from the students. Much valuable voluntary assistance might in this way be secured, although it would in no wise obviate the necessity of employing a professional cataloguer. In a number of our sister universities and colleges, where the librarian has, in some instances, been constituted professor of bibliography and library economy, instruction, more or less detailed, is offered by him in those branches. Such is the case at the University of Colorado, at Amherst College, Bowdoin College, the University of California, Cornell University, the Iowa State College, the University of Michigan, Wellesley College, and the Maine State College. The employment of a trained cataloguer, unless we look for a high grade of experience and efficiency, would not cost over six hundred or eight hundred dollars a year, or somewhat less than that if the term of service were limited to the academic year.

The Librarian wishes to call attention to the very considerable and wholly unnecessary additional expense which will be incurred if the proper classification of the library is delayed until after its removal to the new building which we expect to occupy within the next year or two. Such a delay would necessitate moving twice each one of our 26,000 volumes, whereas, if the proper marking and labeling is completed as the books stand at present, they will be ready for immediate and correct arrangement upon the transference to the new library.

That the adoption of a systematic classification and designation of each book must come in the end, is obvious when it is considered how much time is now consumed in hunting for any desired volume from among the 26,000 on the shelves. As the library grows, this difficulty will increase unless the collection is at once put in proper order and carefully re-catalogued. If, for any reason, it should be found impossible to grant the library a liberal appropriation at this time, it will prove of far greater advantage to spend the money assigned to that department in the manner indicated above than in the purchase of new books for which our cramped quarters allow us no room. The time for expansion will come with the new building. Until then there is enough to do in preparing the present collection for removal and re-arrangement.

(3) So far as the appropriation for books will allow, a certain sum of money, for the purchase of general works of reference, should be placed at the disposal of the Librarian. These works, not falling within the department of any one instructor, often fail of being ordered, to the subsequent serious inconvenience of those using the library. Their expense sometimes deters an instructor from including them in his list, as their purchase would consume so large a portion of the sum assigned him for books. An annual appropriation of at least two or three hundred dollars should be at the command of the Librarian for the purchase of this class of books as well as of such new or necessary publications, manuals, aids, or appliances as fall within his own special line of work.

This application for an appropriation, inconsiderable in amount, but most urgently needed, is most respectfully submitted.

PERCY F. BICKNELL, *Librarian*.

URBANA, ILL., Sept. 21, 1894.

I also submit the following report of the President of the Board of Direction of the Agricultural Experiment Station:

#### EXPERIMENT STATION REPORT.

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

DEAR SIR:—Having been appointed, for the time being, President of the Board of Direction of the Agricultural Experiment Station, I have undertaken to perform the not very well defined duties of the office.

The Board held the regular quarterly meeting on the 20th inst., with all members present except Mr. Gurler, of the State Dairymen's Association. The resignations of Professor Morrow and Mr. Farrington left their places vacant, and these have not been filled.

For the information of those present a report was prepared of the condition and progress of the affairs of the Station during the quarter, as communicated to me by each member of the Station staff. This report showed very commendable activity and some valuable results. The experiments in each department, except that of dairying, seem well planned and well executed. The dairy work has not been well established, and changes in the membership of the Station staff have been injurious to these experiments. It is very desirable that this work shall have prompt and earnest attention, but just what can be done until competent men are provided is difficult to state. There was no member of the standing committee on the subject present at the meeting. The assistant chemist and dairyman have been doing all within their power for the good of the department, but something more is needed. The assistant agriculturist is also trying to help here, but his time and attention are demanded elsewhere. Because something should be done and because nothing better seemed possible, the present President of the Board was added to this standing committee.

According to the report presented satisfactory progress has been made in various field experiments, in matters of feeding steers and pigs, in tests upon evaporation of water from soils, in various chemical and botanical investigations, and in experiments in horticultural subjects.

The consulting entomologist, Professor Forbes, contributed an important account of the very earnest efforts made by him, under the authority of the Station, and at its expense, to test in the fields the efficacy of a fungous disease in killing off chinch bugs. More than 2,000 packages were sent out containing infected bugs, and in many cases other infecting material. On the whole, results seem to show that this disease cannot be spread effectively during dry weather, though persistent artificial infection seems to have been useful in one case. A bulletin on the subject is to be published soon.

During the quarter bulletins Nos. 33 and 35 have been published, and No. 34 is in the printer's hands, while the manuscript for No. 36 is practically completed.

The first of these contains a short article on the destruction of chinch bugs, by Professor Forbes, and articles on dairy matters, by Professor Morrow and Mr. Farrington. No. 34, on wheat and oats, is by Professor Morrow and Mr. Gardner. No. 35, on the Russian thistle, and No. 36, on feeding experiments, are by Professor Morrow.

The Board of Direction presents the following papers:

*Paper A* is a statement of expenditures for the quarter ending June 30, 1894.

*Paper B* is a statement of expenditures for the year ending June 30, 1894.

*Paper C* is a list of warrants drawn during the quarter ending June 30, 1894, Nos. 231 to 335, inclusive, and is accompanied with vouchers for the same.

*Paper D* is a statement of appropriations, expenditures, and balances for the quarter ending September 30, 1894.

*Paper E* is a statement of appropriations asked for the current and next quarters.

The Board of Direction asks that the Trustees appropriate funds according to the estimates in Paper E, for the use of the Station.

## PAPER A—STATEMENT OF EXPENDITURES, QUARTER ENDING JUNE 30, 1894.

Board expense .....	\$46 12
Books and publications .....	30 06
Botanical apparatus and supplies .....	3 05
Bulletins and reports .....	163 41
Chemical apparatus and supplies .....	46 67
Fertilizers .....	11 02
Fuel and lights .....	35 80
Incidental expenses .....	25 16
Printing, stationery, and postage .....	31 47
Salaries .....	1,814 98
Seeds and trees .....	48 31
Tools and supplies .....	78 61
Wages and teams .....	1,201 93
Sundry experiments—	
Chinch bug experiment .....	196 34
Clover and other forage plant experiments .....	10 50
Dairying experiments .....	8 24
Drainage experiment .....	49 65
Total .....	\$3,801 32

## PAPER B—STATEMENT OF EXPENDITURES, YEAR ENDING JUNE 30, 1894.

Board expense .....	\$127 84
Books and publications .....	347 41
Botanical apparatus and supplies .....	47 08
Bulletins and report .....	1,307 07
Chemical apparatus and supplies .....	309 44
Fertilizers .....	11 02
Fuel and lights .....	187 60
Furniture and fittings .....	12 80
Incidental expenses .....	62 74
Meteorological apparatus .....	25 67
Printing, stationery, and postage .....	59 58
Salaries .....	7,312 16
Seeds and trees .....	101 12
Tools and supplies .....	369 70
Wages and teams .....	4,127 27
Chinch bug experiment .....	196 34
Clover and other forage plant experiments .....	29 75
Dairying experiments .....	62 69
Drainage experiment .....	64 15
Nitrogen experiment .....	187 50
Farmers' Institutes .....	51 07
Total .....	\$15,000 00

## PAPER D—STATEMENT OF APPROPRIATIONS, EXPENDITURES, AND BALANCES FOR THE QUARTER ENDING SEPTEMBER 30, 1894.

	Appropriated.	Expended.	Balances.
Buildings and repairs .....	\$25 00		\$25 00
Board expense .....	50 00		50 00
Books and publications .....	50 00		50 00
Botanical apparatus .....	10 00		10 00
Bulletins .....	200 00		200 00
Chemical apparatus .....	50 00		50 00
Fuel and lights .....	60 00		60 00
Incidentals .....	25 00		25 00
Printing, stationery, and postage .....	25 00		25 00
Salaries .....	2,060 00	\$1,218 34	841 66
Seeds and trees .....	10 00		10 00
Tools and supplies .....	270 00		270 00
Wages .....	1,100 00	814 53	285 47
Sundry experiments—			
Chinch bug experiments .....	250 00	211 13	38 87
Wheat and forage experiments .....	100 00		100 00
Total .....	\$4,285 00	\$2,244 00	\$2,041 00

## PAPER E—ESTIMATES.

<i>Quarter ending September 30, 1894.</i>	
Additional amount needed for wages.....	\$100 00
<i>Quarter ending December 31, 1894.</i>	
Building and repairs.....	\$25 00
Board expense.....	50 00
Books and publications.....	275 00
Botanical apparatus.....	10 00
Bulletins.....	1,100 00
Chemical apparatus.....	25 00
Fuel and lights.....	100 00
Incidentals.....	15 00
Printing, stationery, and postage.....	15 00
Salaries.....	1,500 00
Seeds and trees.....	30 00
Tools and supplies.....	100 00
Wages.....	550 00
Testing durability of timber.....	50 00
Expenses of delegate to meeting of Association of American Agricultural Colleges and Experiment Stations.....	50 00
Total.....	\$3,895 00
From Station farm fund—	
For wages.....	\$450 00

The Board has appointed Dr. Burrill to represent the Experiment Station of this University at the meeting of the Association of American Agricultural Colleges and Experiment Stations, to be held in Washington, November 13, 1894, and asks approval of this appointment.

The Board has not planned any new work for the coming quarter, but will enlarge somewhat its feeding experiments in order to investigate more fully than has been done heretofore the value of wheat for feeding purposes.

It will also make some additions to the forestry plantation by planting some 100 trees each, of Kentucky coffee and of mulberry. It is further proposed to do much more work than heretofore in the way of testing the durability of timber grown in this state.

Respectfully submitted,

T. J. BURRILL,  
President Board of Direction.

I also submit an application from Miss Anita M. Kellogg, Director of the Woman's Gymnasium, asking for an appropriation for current expenses and for some additional light apparatus. In view of the fact that the attendance of students in that department is double what it was last year, I recommend that \$70.00 be appropriated for the services of a piano accompanist and \$200.00 for the other purposes suggested.

I submit a communication from the professor of military science asking for an appropriation of \$50.00 for the purchase of additional swords for officers of the battalion, consequent upon a re-organization thereof, and recommend that it be granted.

Also a communication from the professor of pedagogy requesting an appropriation for current expenses in his department, and recommend that \$150.00 be granted.

Also one from the Principal of the Preparatory School, of similar import, and recommend that \$200.00 be granted.

Also one from Dr. Burrill requesting that provision be made for employing assistance in the bacteriological laboratory, to the extent of \$5.00 per week for the fall term, and recommend that it be granted.

Also one from Professor Charles M. Moss for \$150.00 for the purchase of material and supplies to be used in the Greek department, and recommend that it be granted.

Also one from Professor Talbot for material and appliances in the laboratory of applied mechanics, and recommend that \$185.00 be allowed.

Also one from the business manager of the *Illini*, asking for an appropriation of \$630.00, to send the paper regularly to the high schools of the state. In my judgment the Board should give the *Illini* such support as is consistent with the finances of the University. The paper has been enlarged and improved in appearance, and I think it may be, materially, in quality, so as to make it really representative of the higher and better work of the University. It has undoubtedly served a good purpose in the past and as undoubtedly may be made of still greater usefulness in the future. It is possible that it might be better to leave it to the students to manage and support their paper in altogether their own way, and to use such University funds as are available for the purpose for the publication of bulletins wholly devoted to the higher literary and scientific work of the institution. But we probably are not prepared to do that this year, and, until we are prepared, we can probably secure no better arrangement than that now in operation. I therefore recommend the appropriation of such liberal sum to aid in the distribution of the *Illini* as the Board may be able to grant.

Respectfully submitted,

A. S. DRAPER, *President*.

On motion of Governor Altgeld, the balance of the \$1,000.00 appropriated for advertising purposes, at the last meeting of the Board, was re-appropriated, the expenditure of this sum to be under the direction of President Draper and the President of the Board of Trustees.

On motion of Mr. McKay, President Draper and the deans of the colleges were directed to consider and report at the next meeting of the Board, upon a course of instruction in political and social science, to be offered in the next catalogue.

The Treasurer's report was received and referred to the Finance Committee.

#### TREASURER'S REPORT.

CHARLES W. SPAULDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.  
AUGUST 31, 1894.

1894.	Dr.		
May 31	To balance .....		\$67,468.74
June 2	From S. W. Shattuck, on general fund .....	\$ 10 00	
" 9	Payment of bond No. 2, City of Urbana .....	1,000 00	
" 9	coupons due June 1, City of Urbana .....	495 00	
" 11	Payment on contract No. 62, R. H. Muhlhausen .....	100 00	
" 13	Farm fund account .....	50 00	
" 15	Morgan county coupons due June 15 .....	1,400 00	
" 22	Champaign county " " 1 .....	182 50	
" 22	Homer township " " 22 .....	375 00	
" 25	Montgomery county " " 15 .....	540 00	
" 25	bond No. 5, due June 15 .....	1,000 00	
" 25	From S. W. Shattuck on general fund .....	2,581 30	
July 2	Montgomery county coupons due July 1 .....	195 00	
" 2	Farm fund account .....	85 90	
" 3	Champaign county coupons due July 1 .....	2,250 00	
" 3	Payment on union school dist. bond No. 2, Champaign Co .....	200 00	
" 3	Interest on above, due July 1 .....	160 00	
" 5	State appropriation account engineering building .....	80,000 00	
" 5	Sangamon county coupons, due July 1 .....	250 00	
" 9	State appropriation for the payment of salaries, for additions to the library, museum and cabinets, for school apparatus, for material for the laboratories, for furniture, and for current repairs on buildings, the sum of .....	60,000 00	
" 11	Austin coupons due July 1 .....	575 00	
" 14	Part Pike county coupons, due July 1 .....	1,960 00	
" 14	Logan county coupons due July 1 .....	750 00	
" 14	Gallatin county " " 1 .....	630 00	
" 14	Macoupin county " " 1 .....	618 00	
" 17	From S. W. Shattuck on general fund .....	331 94	
" 18	Litchfield coupons due July 1 .....	440 00	
" 18	State appropriations for '93 taxes on Minnesota lands .....	1,519 35	

*Treasurer's Report—Concluded.*

1894.				
July	19	Sangamon county bond No. 2, due July 11.....	1,000 00	
"	19	coupons                      "    "    11.....	200 00	
"	20	Champaign   "                      "    "    1.....	50 00	
"	30	State appropriation, from United States.....	20,000 00	
"	31	Township of Taylorville coupons, due August 1.....	1,200 00	
August	1	Mattoon coupons, due August 1.....	150 00	
"	1	Champaign county bonds Nos. 17, 18, 19, 20, due August 1.....	2,000 00	
"	1	coupons, due August 1.....	540 00	
"	1	Kankakee county coupons, due July 1.....	2,400 00	
"	1	Mansfield coupons due July 1.....	213 00	
"	6	Morgan county bond No. 2, due August 1.....	1,000 00	
"	6	coupons                      "    "    1.....	540 00	
"	6	Interest due January 1, '94 and accrued interest to date on contract No. 39, J. E. Blickenstaff.....	25 15	
"	6	Pittsfield school coupons due July 1.....	240 00	
"	6	State appropriation account State Laboratory of Natural History.....	6,750 00	
"	6	Part Pike county coupons, due July 1.....	770 00	
"	13	Montgomery county coupons due August 1.....	90 00	
"	22	Montgomery county bond No. 1, due August 1.....	500 00	
"	22	Accrued interest on above.....	1 67	
"	31	From S. W. Shattuck, on general fund.....	1,581 30	
"	31	Interest on endowment fund, June, July, and August, 4 per cent.....	277 75	
"	31	Interest on other funds, June, July, and August, 2½ per cent.....	383 91	\$197,611 77
<i>Cr.</i>				\$265,080 51
August	31	By amount paid on account of general fund as per list of warrants attached hereto.....	\$21,642 82	
"	31	By amount paid on account of state appropriation as per list of warrants attached hereto.....	49,775 32	
"	31	By amount paid on account of State Laboratory of Nat'l History as per list of warrants attached hereto.....	2,948 20	
"	31	By amount paid on account of U. S. fund as per list of warrants attached hereto.....	462 30	
"	31	By amount paid on account U. S. Experiment Station fund as per list of warrants attached hereto.....	4,172 15	
"	31	By amount paid on account of U. S. Experiment Station farm account as per list of warrants attached hereto.....	391 19	\$79,391 98
Balances—				
State appropriations { Current fund.....			\$51,284 26	
{ Engineering Hall.....			67,003 17	
{ Other appropriations.....			14,854 71	
General fund.....			2,261 66	
U. S. fund.....			20,598 51	
Endowment fund.....			30,619 50	
U. S. Experiment Station farm account.....			324 89	
			\$186,946 70	
Less overdraft of U. S. Experiment Station acc't....			1,258 17	\$185,688 53
				\$265,080 51

## BUILDINGS AND GROUNDS.

SPRINGFIELD, ILL., September 25, 1894.

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

GENTLEMEN: Your Committee on Buildings and Grounds begs leave to report as follows:

Your Committee on consultation decided to put in water tube boilers for heating apparatus for Engineering Hall, and accepted a proposition from the Babcock & Wilcox Company, of New York, for two boilers of 200-H. P. each, at a price of \$9,700.00.

Your Committee on consultation with the Faculty of the Engineering College gave the contract for furniture for the new building, to the LaFayette Lumber and Manufacturing Company, for \$7,500.00, the contract to be fulfilled by December 1, 1894.

It being evident that the contract for Engineering Hall would not be completed September 1, according to its terms, your Committee asked the contractors to appear and show cause, if any, why they had not been able to carry out the contract. They appeared August 28th and stated that strikes through the summer had delayed them, and asked an extension of eight weeks. Your Committee, on examination into the reasons given, decided to recommend to the Board that an extension of six weeks be allowed. We make that recommendation now, believing that it is but just and right under the stipulations of the contract.

Your Committee ordered the removal of the old fences upon the campus, believing that the action would be commended by the Board.

Your Committee, upon estimating the amount of walks necessary for connecting the new building with the other walks of the grounds, found that they would, if laid in cement or manufactured stone, cost about \$1,000.00. We ask your instructions with regard thereto.

Your Committee recommends the payment of \$1,600.00 to the architect and superintendent, on account of services rendered.

The general contractors of the new building have been paid as follows: July 1, 1894, \$7,667.94; August 1, 1894, \$6,808.58; September 1, 1894, \$19,186.60.

It is the intention of the Committee not to pay any further money to the general contractors until the completion of the building.

Your Committee asks your instructions with regard to settling with the contractors, as the building will be completed before your next regular meeting.

Respectfully submitted,

S. A. BULLARD,

*Chairman of Committee on Buildings and Grounds.*

On motion of Mr. McLean, the report of the Committee was received, and the appropriation of \$1,600.00 for payment of the architect and superintendent was made, as recommended.

On motion of Mr. Armstrong, it was voted that the general contractors of the engineering building be held to their contract, and that no more money be paid until the building is completed and turned over. The Committee on Buildings and Grounds was instructed to communicate this action to the contractors.

Two hundred dollars was appropriated to be used, or as much thereof as may be needed, by the Committee on Buildings and Grounds, in constructing temporary plank walks about Engineering Hall.

President Draper's report was then taken up for consideration.

On motion of Mr. McLean, Mr. L. deP. Vail was made temporary instructor in athletics during the absence of the director of the gymnasium, Mr. Dodge.

On motion of Mr. Raab, \$300.00 was appropriated for band instruments and music.

On motion of Mr. Raab, \$50.00 was appropriated for the purchase of swords and belts, at the request of Captain Brush.

For the department of pedagogics an appropriation of \$150.00 was made.

For the preparatory school an appropriation of \$200.00 was made, to be used in the purchase of apparatus and supplies.

Professor Burrill was authorized to employ assistance in his department during the fall term, at an expense of \$5.00 a week.

For the department of Greek \$150.00 was appropriated.

For the purchase of supplies for use in the testing laboratory an appropriation of \$185.00 was made.

On motion of Mr. McKay, \$500.00 was appropriated for advertising in the *Illini* and for subscriptions. The distribution of the copies received was referred to the President of the University.

For the library, \$4,500.00 was appropriated, to be expended under direction of the Library Committee.

On motion of Mr. McLean, appropriations of Experiment Station funds were made in accordance with the recommendations of the Board of Direction of the Station, as presented in Paper E on page 6.

The appointment of Professor Burrill as delegate from the Experiment Station to the meeting of the Association of the American Agricultural Colleges and Experiment Stations, to be held in Washington, November 13th next, was approved.

For the woman's gymnasium an appropriation of \$200.00 for apparatus was made; also an appropriation of \$70.00 for a pianist for the year, these expenditures to be made under the supervision of the President of the University.

An appropriation of \$200.00 was made to defray expenses attendant upon the installation of President Draper, and the dedication of Engineering Hall,

The Secretary presented the following opinion, which he had, by order of the Board, obtained from the Attorney General:

STATE OF ILLINOIS,  
ATTORNEY GENERAL'S OFFICE.

SPRINGFIELD, ILL., September 21, 1894.

*W. L. Pillsbury, Secretary, Etc., Urbana, Ill.*

DEAR SIR: In reply to your communication of the 19th inst., I would say that I am of the opinion that the Trustees of the University of Illinois are without power to grant the right to any railroad company, whether using cars propelled by steam, electricity, or horse power, to trespass upon the grounds of the University, neither have they any authority to grant any franchises or rights of way in or over said lands. This is a matter of very great importance to the people of the state, and it will be much better for the Trustees of the University to refer such matters as these to some other authority; just what that authority is I am not prepared to say at present, but certainly it is not the Board of Trustees.

Of course, I know nothing about what portion or part of these grounds it is desired to cross with the street railway. It may be farming lands, which would not be seriously injured, and it may be the campus, or grounds upon which the buildings are situated. The principle of law, however, applies equally to both.

Yours truly,

M. T. MOLONEY,

*Attorney General.*



The Board instructed the Secretary to inform the Urbana and Champaign Electric Street Railway Company that, in accordance with the opinion of the Attorney General, it must decline to give it permission to lay a track across the University grounds along the line of Wright Street extending south.

The Secretary was also instructed to report its decision in this matter to the city councils of Urbana and of Champaign.

On motion of Mr. McKay, the Board adopted the following resolution:

*Resolved*, That the President of the Board be instructed to request the city council of Champaign, to take measures to abate the nuisance caused by the flow of sewage in the stream running through the University grounds, and that, in the event of failure of the said city council of Champaign to abate the nuisance, the President of the Board be further instructed to consult the Attorney General as to what steps the state may take in the premises to protect its interests.

On motion of Mr. McLean, Professor Shattuck was appointed Business Agent for the year beginning September 1, 1894.

The Finance Committee made the following report which was approved:

SPRINGFIELD, ILL., September 25, 1894.

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

GENTLEMEN:—Your Finance Committee reports that it has examined the report of your Treasurer, up to and including August 31, 1894, and finds that during the past three months the following bonds belonging to the endowment fund have been paid:

The city of Urbana, bond No. 2.....	\$1,000 00
Montgomery county, school bond No. 5.....	1,000 00
Champaign county, school bond No. 1.....	200 00
Sangamon county, school bond No. 2.....	1,000 00
Montgomery county, school bond No. 1.....	500 00
Champaign Board of Education bonds, Nos. 17 to 20 inclusive.....	2,000 00
Morgan county, school bond No. 2.....	1,000 00
	<hr/>
	\$6,700 00

We also find that there has not been any purchase of new bonds for said endowment fund, and that there is now on hand of said fund the sum of \$30,-619.50 uninvested.

Your Committee therefore recommends that the Treasurer be directed to invest said amount of endowment fund in such bonds, as the law authorizes, and that he report his action in this matter at the next meeting of the Board.

The committee finds the Treasurer's report correct and that it shows—

Balance on hand May 31st.....		\$67,468 74
Receipts to August 31st.....		197,611 77
		<u>\$265,080 51</u>
Paid out to August 31st.....		\$79,391 98
Balance on hand—		
State appropriation .....	\$133,142 14	
General fund.....	2,261 66	
United States fund.....	20,598 51	
Endowment fund.....	30,619 50	
United States Experiment Station farm fund.....	324 89	
	<u>\$186,946 70</u>	
Overdraft, United States Experiment Station.....	1,258 17	185,688 53
		<u>\$265,080 51</u>

Respectfully submitted,

ALEX. McLEAN

J. E. ARMSTRONG,

*Finance Committee.*

The Finance Committee made the following report, which was adopted:

SPRINGFIELD, ILL, September 25, 1894.

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

GENTLEMEN:—Your Finance Committee recommends the appropriation of following amounts for the purposes named, as requested in exhibit G, presented by the Business Agent. The appropriations are for three months ending December 31, 1894:

Board expense.....	\$400 00
Salary of President and for instruction.....	23,844 00
Salaries for services.....	2,427 50
Buildings and grounds.....	1,000 00
Fuel and lights.....	2,500 00
Stationery and printing.....	400 00
Laboratories.....	400 00
Library and apparatus.....	50 00
Military department.....	50 00
Mechanical, architectural, agricultural, and horticultural departments.....	400 00
Water supply.....	125 00
Furniture and fixtures.....	200 00
Heating apparatus.....	253 24
Advertising.....	872 20
Accredited schools.....	31 09
Biological station.....	1,192 51
Art department.....	96 02
President's office.....	499 05
Incidental expense account .....	200 00
Total.....	<u>\$34,940 61</u>

Respectfully submitted,

ALEX. McLEAN,

JAMES E. ARMSTRONG,

*Committee on Finance.*

The Finance Committee made the following report which was received for record:

SPRINGFIELD, ILL, September 25, 1894.

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

GENTLEMEN:—Your Finance Committee begs leave to state in reference to the necessary appropriations for the year ending August 31, 1895, that ex-

hibit E, presented by the Business Agent, shows estimates of income from all sources of \$198,085.59, and estimated disbursements, predicated on the present basis of expenses, amounting to \$205,235.37. The apparent deficit of \$7,-149.78 is caused by the increase in salaries, and additions to the corps of instructors, and will have to be provided for out of the future income.

The Committee calls attention to this now so that the Board may be fully advised in the premises.

The estimates are as follows:

ESTIMATED RECEIPTS AND EXPENSES FOR THE TWELVE MONTHS ENDING SEPTEMBER 1, 1896.

<i>Receipts.</i>		
Current balance September 1, 1894.....	\$2,184 26	
State appropriations September 1, 1894.....	118,615 79	
State appropriations Laboratory Natural History, September 1, 1894...	6,299 04	
United States fund, balance, September 1, 1894.....	20,346 50	\$147,445 59
Interest from endowment, etc.....	\$27,000 00	
Interest from Treasurer.....	3,000 00	
Fees from students.....	18,000 00	
Farm rents.....	2,640 00	50,640 00
		<u>\$198,085 59</u>
<i>Expenses.</i>		
State Laboratory Natural History.....	\$6,299 04	
Assignments, Paper B, State appropriation.....	81,653 96	
Assignments, Paper C, United States fund.....	346 50	
Assignments, Paper A, sundries.....	2,700 87	\$91,000 37
Board expenses.....	\$1,200 00	
Salary of President.....	7,000 00	
Salaries for instruction.....	82,660 00	
Salaries for services.....	9,075 00	
Buildings and grounds.....	3,000 00	
Fuel and lights.....	5,000 00	
Stationery, printing, and catalogue.....	2,000 00	
Departments.....	1,000 00	
Incidental expense account.....	800 00	
Laboratories.....	1,000 00	
Water supply.....	500 00	
Furniture and fixtures.....	500 00	
Heating apparatus repairs.....	500 00	114,235 00
		<u>\$205,235 37</u>

Respectfully submitted,

ALEX. McLEAN,

*Chairman of Committee on Finance.*

The Finance Committee made the following report, which was adopted:

SPRINGFIELD, ILL, September 25, 1894.

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

GENTLEMEN: Your Finance Committee reports that it has examined the statement of the expenses of the Agricultural Experiment Station for the year ending June 30, 1894, and find the same correct, amounting in all to \$15,000, as per vouchers on file.

Your Committee also reports that it has examined the vouchers numbered 231 to 335, and finds the same correct.

Respectfully submitted,

ALEX. McLEAN,

*Chairman Finance Committee.*

The Business Agent was instructed to see whether or not he could get a reduction in the price of gas. He was further instructed, in case no reduction could be secured, to investigate and report to the next meeting of this Board upon the practicability and cost to the University of putting in a gas plant of its own.

On motion of Mr. McKay, it was voted that the President of the University, together with the Deans of the Faculty, and the Committee on Instruction, be requested to report to the Board at its December meeting, whether or not a reorganization of the courses of study in the University is desirable, with plans for reorganization, if desirable. President Draper was also directed to report whether or not it is practicable to hold examinations for entrance to the University at different points in the State, about the close of schools next June.

On motion of Mr. Armstrong, the President of the University and the Committee on Instruction were directed to correspond with Professor T. F. Hunt, of Columbus, Ohio, to see whether he might not be secured for the University professorship of agriculture, together with the positions of agriculturist of the Experiment Station, and President of its Board of Direction. Authority was given to offer Professor Hunt a salary of \$2,500 a year, in addition to the use of the house that has been occupied by Professor Morrow.

On motion of Mr. Bullard, it was voted that the President of the University be requested to prepare a concise statement of the work and the needs of the University, to be presented for use in connection with our application to the next General Assembly for appropriations.

President Draper stated that he had a communication from Dr. Burrill, accompanied by papers, setting forth the requests of the several departments of the University for appropriations. The papers were referred to the committee on legislation.

President Draper also stated that he had a communication from Professor Forbes with regard to the appropriation needed for the Biological Station at Havana; this paper was also referred to the committee on legislation.

The Secretary presented a communication from Professor McMurry, on which no action was taken.

The Business Agent presented the following report:

UNIVERSITY OF ILLINOIS, September 25, 1894.

*N. W. Graham, Esq., Chairman Board of Trustees, University of Illinois,*

SIR: I have the honor to hand you herewith the financial statements for the quarter ending August 31, 1894, being—

*Paper A*, a showing of the current appropriations.

*Paper B*, representing the condition of the state appropriations, September 1.

*Paper C*, the same for the United States fund.

*Paper D*, a list of vouchers presented for audit, 1176 to 1650 inclusive.

*Paper E*, an estimate of receipts and expenses for the twelve months ending September 1, 1895.

*Paper F*, the same for the three months ending December 1, 1894.

*Paper G*, a list of appropriations required for the three months ending December 1, 1894.

## PAPER A—CURRENT APPROPRIATIONS.

June 5 and August 1, 1894.	Appropriated.	Receipts appropriated.	Expended.	Balance.
Board expense.....	\$500 00	.....	\$393 11	\$106 89
Salaries for instruction { Current.....	16,058 33	.....	{ 8,483 71	16 45
Salaries for instruction { State.....			{ 7,558 17	
Salaries for services.....	1,650 00	.....	1,637 34	12 66
Buildings and grounds.....	300 00	\$11 00	296 65	14 35
Fuel and lights.....	1,500 00	.....	405 85	1,094 15
Stationery, printing, and catalogues.....	1,200 00	.....	1,039 65	160 35
Preparatory school.....	325 00	212 50	532 00	5 50
Mechanical department.....	300 00	230 46	504 12	26 34
Architectural department.....	100 00	1,391 91	1,260 72	231 19
Agricultural department.....	.....	269 21	114 12	155 09
Horticultural department.....	.....	103 55	90 37	13 18
Military department.....	50 00	.....	17 03	32 97
Laboratories.....	500 00	714 73	888 52	326 21
Library and apparatus.....	50 00	.....	29 08	20 92
Incidentals.....	200 00	18 92	114 76	104 16
Minnesota lands.....	100 00	45 85	75 36	70 49
<i>Sundries—</i>				
Heating.....	777 00	.....	523 76	253 24
Water supply.....	125 00	.....	125 00	.....
Furniture and fixtures.....	200 00	.....	102 26	97 74
Advertising.....	1,000 00	.....	127 80	872 20
Accredited schools.....	31 09	.....	.....	31 09
Commencement.....	200 00	.....	200 00	.....
Biological Station.....	1,800 00	.....	607 49	1,192 51
President's office.....	500 00	.....	95	499 05
Art department.....	18 00	.....	21 98	46 02
Music and piano.....	268 00	.....	207 50	60 50
World's Fair exhibit.....	110 79	.....	110 79	.....
Technograph.....	59 47	.....	59 47	.....
Music fees.....	.....	602 00	602 00	.....
South farm.....	36 18	700 00	14 49	721 69
Treasurer's expenses.....	116 72	.....	116 72	.....
Summer school.....	1,465 50	.....	1,458 25	7 25
Military scholarships.....	180 00	.....	180 00	.....
American Agricultural Colleges and Experiment Stations.....	15 00	.....	15 00	.....
Model school.....	300 00	.....	.....	300 00

## PAPER B—STATE APPROPRIATIONS.

August 31, 1894.	Received.	Expended.	Balance.	Assigned.
Closed out.....	\$57,701 14	\$57,701 14	.....	.....
Cabinets.....	1,000 00	905 61	\$94 39	\$94 39
Furnishing and heating Natural History Hall.....	6,000 00	5,311 44	688 56	688 56
Boilers and coal house.....	6,500 00	.....	6,500 00	6,500 00
Engineering building.....	160,000 00	92,965 78	67,034 22	67,034 22
Applied mechanics.....	472 00	.....	472 00	472 00
Civil engineering.....	233 00	30 00	202 91	202 91
Psychology.....	200 00	21 53	178 47	178 47
Botany.....	450 00	104 85	285 15	285 15
Library.....	5,500 00	4,578 37	921 63	921 63
Zoölogy.....	1,200 00	49 72	1,150 28	1,150 28
Architectural department.....	325 09	151 60	173 40	173 40
Geology.....	500 00	44 05	455 95	455 95
Chemical Laboratory ventilation.....	700 00	667 05	32 95	32 95
Buildings and grounds.....	700 00	666 60	33 40	33 40
Mechanical engineering.....	4,000 00	1,193 74	2,806 26	2,806 26
Electrical engineering.....	5,550 00	5,123 65	426 35	426 35
Salaries for instruction.....	7,558 17	7,558 17	.....	.....
Pharmacy desks.....	350 00	151 96	198 04	198 04
Chemical laboratory.....	500 00	500 00	.....	.....
Unassigned.....	36,961 83	.....	36,961 83	.....
Total.....	\$296,401 14	\$177,785 35	\$118,615 79	\$81,653 96
Illinois State Laboratory of Natural History.....	\$15,313 26	\$9,014 22	\$6,299 04	\$2,805 04

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1893.</i>				
Before reported on.....	\$17,663 09	\$17,663 09		
Agricultural lectures.....	250 00	153 55	\$96 45	\$96 45
Veterinary department.....	86 91	81 68	5 23	5 23
Total .....	\$18,000 00	\$17,898 32	\$101 68	\$101 68
<i>Year ending June 30, 1894.</i>				
Before reported on.....	\$11,456 87	\$11,456 87		
Testing laboratory.....	1,700 00	1,671 47	\$28 53	\$28 53
Geology.....	300 00	195 34	104 66	104 66
Zoölogy.....	1,000 00	995 19	4 81	4 81
Civil engineering.....	950 00	949 88	12	12
Mechanical engineering.....	3,093 13	3,093 13		
Architecture.....	500 00	393 30	106 70	106 70
Total .....	\$19,000 00	\$18,755 18	\$244 82	\$244 82
<i>Year ending June 30, 1895.</i>				
Unassigned.....	\$20,000 00		\$20,000 00	

The Board is requested to make the following assignments:

From United States fund, salaries for instruction.....	\$10,000 00
From State appropriations, salaries for instruction.....	12,000 00
From State appropriation, buildings and grounds .....	1,000 00

Respectfully submitted,

S. W. SHATTUCK,  
*Business Agent.*

C. G. Hopkins's bill of expenses incurred in attending the meeting of the Board, at the request of the committee appointed to secure a chemist for the Experiment Station, was ordered paid from the Experiment Station funds. The amount was \$59.69.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

N. W. GRAHAM,  
*President.*

## MEETING OF NOVEMBER 15, 1894.

A special meeting of the Board of Trustees of the University of Illinois was held in the University Parlor, in Urbana, at 9 o'clock, Thursday, November 15, 1894.

The following call was issued by the secretary:

"By order of the President, Mr. N. W. Graham, there will be a meeting of the Board of Trustees of the University of Illinois at 9 o'clock a. m., Thursday, November 15, 1894, in the University Parlor, Urbana, to consider such business as may be duly presented."

There being no quorum present, the Board adjourned to meet at 8 a. m. Friday.

In the afternoon Andrew Sloan Draper, LL. D., was inaugurated as President of the University of Illinois. And in the evening of the same day Engineering Hall was dedicated. The following was the program:

## PROGRAM OF INAUGURATION.

Music—"Abide With Me," (Donnizetti)—University Orchestra.

Prayer—Rev. C. N. Wilder, D. D.

Music—"Profumi Orientali," (Bellenghi)—University Mandolin and Guitar Club.

Addresses (Five Minutes)—

For the Students—Peter Junkersfeld, President Senior Class.

For the Alumni—Hon. Charles G. Neely, Class of 1880, President Alumni Association.

For the Faculty—Professor Samuel W. Shattuck.

Presentation of Governor Altgeld as presiding officer, by Hon. Nelson W. Graham, President Board of Trustees.

Music—"Liberty Bell," (Sousa)—University Military Band.

Delivery of Certificate of Election, Charter, Keys, etc., to the President—Thomas J. Burrill, Dean of General Faculty.

Inaugural Address—President Andrew Sloan Draper, LL. D.

Music—"University Song"—University Glee Club. (Words by Carnahan, '92. Music by Steele, '96.)

"Crusader," (Sousa)—University Military Band.

## PROGRAM OF DEDICATION.

Overture—"World's Peace Jubilee," (Beyer)—University Military Band.

Introductory Remarks—President Draper.

Music—"On Deck Polka" (Kral)—University Mandolin Club.

Address—President Charles Kendall Adams, LL. D., University of Wisconsin.

Music—"Down by the Riverside"—University Glee Club.

Address—General William Sooy Smith, of Chicago.

Overture—(Theo. Mozas)—University Orchestra.

BENEDICTION.

President's Reception, 9:00 p. m.—Engineering Hall.

Student's Reception at Engineering Hall, Friday, November 16, at 8:00 p. m.

# SESSION OF FRIDAY.

The Board met pursuant to adjournment, the following members being present:

Messrs. Armstrong, Bullard, Graham, McKay, McLean, Morrison, Raab, and Raymond; absent, Governor Altgeld, Messrs. Bryant, Gore, and Morgan.

The special committee appointed at the meeting of August 1st to convey to Mr. Bryant the congratulations and good wishes of the Board, reported that it had sent to him the following communication:

URBANA, ILL., August 1, 1894.

On the occasion of acquiring the age of eighty-seven years his fellow members of the Board of Trustees of the University of Illinois wish to extend to the Honorable John H. Bryant their congratulations. We note with pleasure and gratitude that this ripe age has been reached in health and in vigor of mind; that the heart is warm, the mind clear, and that the rich experiences of life, which have accumulated wisdom in him, are still the enjoyment of friends and associates. We regard him as a noble example of American manhood, the product of our American institutions, a ripe scholar, an earnest student, a royal character, a true patriot and loyal citizen, and a noble loving friend. We hope that the coming years may bear lightly upon him and that his great store of wisdom may long be a help to his fellow men. It is such lives of men that inspire us to labor so that footprints may be left on the sands of time, not to be swiftly washed away, but changed to enduring stone, that may point others to lives of honor and integrity, filled with noble deeds.

By order of the Board,

NELSON W. GRAHAM,  
S. A. BULLARD,  
*Committee.*

On motion of Mr. Raab the action of the committee was approved.

A communication was received from Professor S. W. Parr stating that the Christian associations were willing to sell to the University a strip of land with forty feet front on the west side of the tract of land adjoining the Arboretum on the east and owned by them. The communication was referred to the Finance Committee.

The Business Agent, Professor S. W. Shattuck, made the following report, which was referred to the Finance Committee:

## BUSINESS AGENT'S REPORT.

URBANA, ILL., Nov. 15, 1894.

*Nelson W. Graham, Esq., President of the Board of Trustees, University of Illinois.*

SIR: I have the honor to hand you herewith, a communication from A. J. Chesbro, Superintendent of the Champaign and Urbana Gas Co., in answer to the action of the Board at its last meeting. Also one from the Champaign Electric Lighting and Power Co.

I have no definite knowledge of this matter.

The Board is requested to make the following appropriations at this time:



Board expense, additional .....	\$200 00
Dedication of Engineering Hall and inauguration of President Draper .....	300 00
Grading around Engineering Hall .....	200 00
Shop practice classes, mechanical and architectural .....	300 00
Moving into new building .....	300 00
South farm buildings, etc. ....	200 00
Total .....	\$1,500 00

Respectfully submitted,

S. W. SHATTUCK,  
*Business Agent.*

The Finance Committee made the following report:

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

GENTLEMEN:—Your Finance Committee respectfully requests appropriations as follows:

Board expenses .....	\$200 00
Expenses of the inauguration of President Draper and dedication of Engineering Hall .....	300 00
Grading around Engineering Hall .....	200 00
Mechanical and architectural departments, for shop practice .....	300 00
Moving to Engineering Hall .....	300 00
South farm buildings, etc. ....	200 00

The committee also recommends that assignments be made of the funds of the State Laboratory of Natural History, as follows:

For the quarter ending December 31, 1894—	
For field work, office, and incidental expenses .....	\$375 00
For salaries and assistance .....	875 00

Respectfully submitted,

J. E. ARMSTRONG,  
ALEX. McLEAN,  
F. M. McKAY,  
*Finance Committee.*

The Secretary stated that Brigadier-General D. W. Flagler, Chief of Ordnance, United States Army, was ready to issue to the University "two 3.2-inch B. L. steel field guns with carriages, etc., in lieu of the two muzzle-loading guns, etc., now on hand." But that in order to secure these it was necessary that the University should give bond, with two sufficient securities, in the sum of \$9,799.72, in order to insure to the War Department the proper care and the return of these guns and equipments.

The Board adopted the following resolution:

WHEREAS, Brigadier-General D. W. Flagler, Chief of Ordnance of the United States Army, has informed the President of this University that he is ready to issue to the University two 3.2-inch B. L. steel field guns with carriages, etc., in lieu of the two muzzle-loading guns, etc., now on hand, and

WHEREAS, The University will be required, if this change is made, to furnish a bond in the sum of \$9,799.72; therefore be it

*Resolved*, That the President of the University be authorized to effect the exchange of field guns, and that the President and Secretary of this Board be authorized to execute, in the name of the University, a bond for the above named amount.

The communication received from the Urbana and Champaign Electric Street Railway Company, with reference to a contract to be made with the Champaign Electric Lighting and Power Company, for furnishing electric power to the University, was referred to the Executive Committee and the Business Agent to report upon at the next meeting of the Board.

The bill of the Urbana and Champaign Electric Street Railway Company for power, from July 1 to September 1, 1894, amounting to \$41.20, was ordered paid.

A communication received from Dr. Bayard Holmes, of Chicago, was referred to the Governor, President Draper, and Mr. Armstrong for consideration, to be reported upon as soon as practicable.

The Committee on Buildings and Grounds was directed to have a conference with the mayor and city council of the city of Champaign with regard to the sewage in Boneyard Creek, and report at the next meeting of the Board.

Professor Forbes's request to have Mr. W. G. Johnson, assistant entomologist of the Laboratory of Natural History, take charge of the students' laboratory work in entomology, during the ensuing winter and spring terms, and that Mr. Johnson be placed upon the corps of instructors of the University, but without additional salary, was granted.

A communication from Professor S. W. Parr with regard to improvements in the Chemical Laboratory, was presented by President Draper and referred to the legislative committee.

The papers presented with regard to electric lighting were referred to the Finance Committee.

President Draper also presented a communication from the editor and business manager of the *Junior Annual* for 1894, asking for an appropriation. Upon motion of Mr. McLean the Board appropriated \$110.00 to this purpose, but stipulated that the University should have a page of advertising in the *Annual*.

A communication was received from Mr. F. S. Olver, of Champaign, asking for the use of Military Hall for one concert by the Theodore Thomas orchestra, of Chicago. This request was endorsed by many citizens of Champaign and Urbana. It was voted to permit the Hall to be used for this purpose with the stipulation that the University should be at no further expense than that of heating and lighting the hall, provided that Mr. Olver should arrange with the Secretary of this Board to have the concert during term time and for the admission to desirable seats in the Hall of all persons connected with the University at not more than 50 cents a seat.

President Draper presented a statement, prepared by Mr. Esty, instructor in electrical engineering, with regard to installing a system of telephones. The cost of a system of fifteen telephones—overhead construction—was estimated at:

Poles.....	\$150 00
Labor.....	30 00
Wire.....	35 00
Telephone and switch-board.....	275 00
Total.....	\$490 00

This matter was referred to the Executive Committee and Business Agent with power to act.

A request from Professor Shea for an appropriation was referred to the Finance Committee.

Upon request of Professor I. O. Baker, Chairman of the Committee of the Faculty on Admission and Accredited Schools, \$120.00 was appropriated for the printing of 500 certificates to be issued to accredited schools.

A communication from the Union Mfg. Company suggesting that the water main now terminating in the University yard, be extended to connect with the water main on Green Street, at the corner of Mathews avenue, was referred to the Committee on Buildings and Grounds, and the President, with power to act.

Professor Burrill's bill of \$56.75, expenses incurred in attending the recent meeting of the Association of the American Agricultural Colleges and Experiment Stations, at Washington, D. C., was ordered paid, upon the recommendation of the Finance Committee.

On motion of Mr. Bullard, \$400.00 was appropriated for furnishing Engineering Hall with hose and reels for fire protection.

President Draper reported that he and Professor Burrill, who had been appointed a special committee to secure a chemist for the Experiment Station, recommended the appointment of Mr. Cyril G. Hopkins, of Brookings, S. D., to this position, at a salary of \$1,500.00 a year; term of service to begin as soon as Mr. Hopkins should enter upon his duties.

The recommendation of the committee was approved.

The matter of appointment of a professor of agriculture—after considerable discussion—was deferred to the next meeting of the Board.

President Draper was authorized to employ, for the winter and spring terms, assistants in the Preparatory School, at an expense of \$60.00 per month.

The matter of advertising the short term in agriculture, and of securing assistance that might be needed therefor, was referred to President Draper with power to act.

The Board adjourned.

W. L. PILLSBURY,

*Secretary.*

N. W. GRAHAM,

*President.*

## MEETING OF DECEMBER 5, 1894.

The Board of Trustees of the University of Illinois met in the University parlor, Urbana, Ill., at 3 o'clock p. m., Wednesday, December 5, 1894. There were present Messrs. Bullard, Armstrong, McLean, Morrison, Raab and Raymond. There being no quorum present, the time was spent in an informal discussion of University affairs.

At 4 o'clock the Board took a recess to attend the University convocation. After the convocation the Board adjourned to meet at the Doane House, in Champaign, at 8 o'clock p. m.

## EVENING SESSION.

The Board met pursuant to adjournment, the same members being present as in the afternoon. In the absence of President Graham, who had missed his train, Mr. Morrison was called to the chair.

The following committee report was received, during the consideration of which, Mr. Graham arrived:

URBANA, ILL., December 5, 1894.

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

GENTLEMEN:—Your committee appointed to consider the matter of bringing a medical college in Chicago, or elsewhere, into relations with the University, reports that it has carefully considered the subject in its different bearings, and it seems manifest that the interests of the University, of higher professional education in Illinois, and of medical practice, would be promoted by such a step. After investigating various medical institutions in Chicago, we report that the one with which the prospects of consummating an arrangement seem most promising, is the College of Physicians and Surgeons, of Chicago, located at the corner of Harrison and Honore streets, which is one of the three most prominent medical Colleges in Chicago. The other two of the three are already affiliated with other universities.

We learn that the College of Physicians and Surgeons looks with favor upon an alliance with this University. Dr. W. E. Quine, President of the institution, is present at this meeting for the purpose of considering the matter, and we recommend that the Board advise with him in relation thereto.

Respectfully submitted,

J. E. ARMSTRONG,  
A. S. DRAPER,

*Committee.*

The report of the committee was adopted on motion of Mr. McLean.

Dr. Quine was invited to meet the Board and discuss the matter, and he did so. After a very full interchange of views, Dr. Quine presented the following communication to the Board:

URBANA, ILL., December 5, 1894.

The undersigned having been unofficially authorized by a majority of the Board of Directors of the College of Physicians and Surgeons, of Chicago, to enter into negotiations with the Trustees of the University of Illinois with a view to securing the permanent union of the two institutions named, hereby proposes and agrees to sell the property and good will of the College of Physicians and Surgeons, of Chicago, to the Trustees of the University of Illinois, for a price not exceeding one hundred and sixty thousand dollars, to be agreed upon by the parties in interest or determined by a committee on appraisal, appointed on an equitable basis of representation.

WM. E. QUINE.

After further consideration, the following resolution, offered by Mr. Armstrong, was adopted:

*Resolved*, That the Board favors the absorption of the College of Physicians and Surgeons, of Chicago, by the University of Illinois; that the Treasurer and the Business Agent of the University be a committee with those already appointed for the purpose of determining and reporting the fair market value of the College of Physicians and Surgeons, and that an application be made to the legislature for appropriations to pay for the same, provided that the Board of Directors of the College of Physicians and Surgeons at an early day take formal action committing itself as to the proposition and agree to favor no other alliance pending the termination of the application to the legislature.

The minutes of the meetings of September 25th and November 15th were approved, as presented by the Secretary.

President Draper stated that he had no formal report to make, but that he had several communications which he would present, making a statement with regard to each.

He stated that, with Dr. Burrill, he had made diligent inquiry with regard to the qualifications of all men known to be available for the position of professor of agriculture, and recommended that Mr. Eugene Davenport, of Woodland, Mich., be appointed Dean of the College of Agriculture and a professor therein; that he also be appointed agriculturist of the Agricultural Experiment Station and a member of its Board of Direction, and that his salary be \$2,000.00 a year, one-half to be paid from the funds of the Station, and the use of dwelling house on the Station farm, the salary to increase \$100.00 a year until it reach \$2,500.00, of which the house shall be considered \$200.00.

The report of the committee was adopted on motion of Mr. McLean.

It was voted to publish the exercises of inauguration and dedication day, and \$300.00 was appropriated to defray the expenses of publication.

The Board adjourned to meet at 8 o'clock Thursday morning.

SESSION OF THURSDAY.

After the Board had met pursuant to adjournment, Professors Ricker, Baker, Talbot, Shea, and Breckenridge were heard with regard to the necessity of obtaining from the legislature appropriations for the College of Engineering.

The Finance Committee made the following report:

URBANA, ILLINOIS, December 6, 1894.

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

GENTLEMEN: At a meeting of this Board held in November last, the matter of an appropriation asked for by Professor Shea was referred to your Committee on Finance. The Committee respectfully reports that the request has been investigated, and recommends that the sum of \$1,000.00 be appropriated from the United States fund for the department of physics and electrical engineering.

Respectfully submitted,

ALEX. McLEAN,  
J. E. ARMSTRONG,

*Committee on Finance.*

The report of the Committee was adopted.

URBANA, ILLINOIS, December 6, 1894.

*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 Nos. 176 to 1,650, inclusive, have been issued, and finds the same correct and properly receipted.

The Committee has also examined the vouchers on which Experiment Station warrants, Nos. 1 to 80, inclusive, were issued, and has found the same correct and properly receipted.

The Committee recommends the payment of \$10.66 to Dr. W. E. Quine on account of expenses incurred by him in attending this meeting of the Board upon invitation of the committee on medical college.

Respectfully submitted,

ALEX. McLEAN,  
J. E. ARMSTRONG,

*Committee on Finance.*

The report of the committee was approved and the appropriation was made as recommended.

URBANA, ILLINOIS, December 6, 1894.

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

GENTLEMEN: The Finance Committee begs leave to recommend that the following appropriations be made for the quarter ending March 1, 1895, amounting in the aggregate to \$35,706.77:

Sundry balances.....	\$2,842 77
Estimates—Board expenses.....	400 00
Salaries for instruction and President.....	23,844 00
Salaries for services.....	2,795 00
Buildings and grounds.....	200 00
Fuel and lights.....	3,000 00
Stationery and printing.....	400 00
Laboratories.....	400 00
Library and apparatus.....	50 00
Military department.....	50 00
Mechanical, architectural, and horticultural departments.....	600 00
Incidentals.....	200 00
Water supply.....	125 00
Furniture and fixtures.....	200 00
Heating apparatus.....	300 00
Shop practice classes.....	300 00

The Committee also recommends that assignments be made of the funds of the State Laboratory of Natural History, as follows:

For the quarter ending December 31, 1894—

For field work, office, and incidental expenses.....	\$375
For salaries and assistance.....	875

Respectfully submitted,

ALEX. McLEAN,  
J. E. ARMSTRONG.,

*Finance Committee.*

URBANA, ILL., December 6, 1894.

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

GENTLEMEN: Your Committee on Finance recommends that the Treasurer be instructed to transfer to the endowment fund \$5,000 of the Kankakee County bonds held as part of the general fund, reimbursing the general fund therefor by transferring \$5,000 cash from the endowment fund to the general fund.

Respectfully submitted,

ALEX McLEAN.  
J. E. ARMSTRONG,

*Finance Committee.*

URBANA, ILL., December 6, 1894.

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

GENTLEMEN: Your Finance Committee reports that it has examined the report of the Treasurer, Mr. C. W. Spalding, which report is made a part of this report, and finds the following balances on hand Nov. 30, 1894:

State appropriations—	
Current fund.....	\$33,838 41
Engineering Hall.....	44,964 66
Other appropriations.....	8,775 26
General fund.....	1,996 29
U. S. fund.....	16,463 92
Endowment fund.....	36,219 50
U. S. Experiment station fund.....	2,886 55
Experiment Station, farm account.....	790 18

Your Committee recommends that the Treasurer be requested to invest immediately of the above balance of the endowment fund not less than \$20,000 in good and sufficient lawful bonds, and that any premium necessary to the purchase of said bonds be paid out of current funds not otherwise appropriated; provided, however, that the bonds shall not cost such a sum as to net less than 4 per cent. interest.

Respectfully submitted,

ALEX McLEAN,  
J. E. ARMSTRONG.,

*Finance Committee.*

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,  
NOVEMBER 30, 1894.

1894.		Dr.		
September 1	To balance .....			\$185,688 53
" 5	Received Experiment Station warrant .....	\$3,750 00		
" 28	farm fund account .....	209 64		
October 1	Jasper county coupons .....	750 00		
" 10	Experiment Station warrant .....	3,750 00		
" 13	farm fund account .....	10 00		
" 15	from S. W. Shattuck, on general fund .....	1,172 84		
" 16	" .....	3,127 29		
" 25	" .....	2,673 59		
" 25	" .....	819 29		
" 26	on farm account .....	160 83		
November 5	Cass county coupons .....	325 00		
" 7	Sangamon county bond, No. 6 .....	600 00		
" 7	Sangamon county coupon .....	42 00		
" 24	Douglas county bonds, Nos. 131 to 140 .....	5,000 00		
" 24	Douglas county coupons .....	600 00		
" 30	on farm account .....	105 64		
" 30	from S. W. Shattuck, on general fund .....	2,186 78		
" 30	Interest on endowment fund to date at 4 per cent .....	314 33		
" 30	Interest on all other funds to date at 2 1-2 per cent .....	462 52		
				\$26,059 75
				<u>\$211,748 28</u>
1894.		Cr.		
November 30	By amount paid out of general fund as per list of warrants attached hereto .....	\$12,739 01		
" 30	By amount paid out of state appropriations as per list of warrants attached thereto .....	45,244 56		
" 30	By amount paid out of State Laboratory of Natural History fund, as per list of warrants attached hereto .....	1,219 35		
" 30	By amount paid out U. S. fund, as per list of warrants attached hereto .....	4,134 59		
" 30	By amount paid out of U. S. Experiment Station fund, as per list of warrants attached hereto .....	3,355 28		
" 30	By amount paid out of U. S. Experiment Station farm account, as per list of warrants attached hereto .....	20 82		
				\$66,713 61
<i>Balances:</i>				
State appropriations—				
Current fund .....			\$33,838 31	
Engineering Hall .....			44,064 66	
Other appropriations .....			8,775 26	
General fund .....			1,996 29	
U. S. fund .....			16,463 92	
Endowment fund .....			36,219 50	
U. S. Experiment Station fund .....			2,886 55	
U. S. Experiment Station farm account .....			790 18	
				\$145,034 67
				<u>\$211,748 28</u>

The following resolution, offered by Mr. Armstrong was adopted:

*Resolved*, That the Governor, President Draper, and the Chairman of the Finance Committee constitute a committee to prepare and present to the legislature at its next session a bill providing for a change in the law of the state regarding the investment of endowment funds held by the University, and especially as to the kind of securities which may be handled.

President Draper stated that the copy for the catalogue would be prepared at as early a date as possible, certainly before the next regular meeting of the Board. Some changes will be found necessary, and he asked that these might be made upon the approval of the Committee on Instruction, and it was so ordered.

President Draper presented the report of the Agricultural Experiment Station.



## AGRICULTURAL EXPERIMENT STATION.

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

DEAR SIR: I beg leave to submit herewith the usual quarterly report of the Agricultural Experiment Station of the University of Illinois.

The Board of Direction of the Experiment Station at its meeting yesterday directed me to ask leave of you to undertake the following experiments:

1. To test the digestibility of some foods for cattle.
2. To study methods of ripening cream for its better preservation and for the better keeping qualities of butter.

In other respects the work of the Experiment Station will be continued during the next quarter along the lines already laid down.

The papers submitted herewith are as follows:

*Paper A* is a statement of expenditures of the Station for the quarter ending Sept. 30, 1894.

*Paper B* is a statement of expenditures for the current quarter up to Nov. 30, 1894.

*Paper C* is a list of warrants issued during the quarter ending Sept. 20, 1894, No. 1 to 80, inclusive, and is accompanied with vouchers for the same.

*Paper D* is an estimate of appropriations needed to carry on the work of the Station during the current and next quarters.

## PAPER A—EXPENDITURES FOR QUARTER ENDING SEPTEMBER 30, 1894.

Board expenses .....	\$13 30
Books and publications .....	23 22
Bulletins .....	213 21
Chemical apparatus .....	89 75
Fuel and lights .....	57 60
Incidentals .....	50
Printing, stationery, and postage .....	5 00
Salaries .....	1,646 67
Seeds and trees .....	7 73
Tools and supplies .....	222 66
Wages .....	1,140 31
Sundry experiments—	
Chinch bug experiment .....	232 23
Total .....	\$3,652 18

## PAPER B—APPROPRIATIONS, EXPENDITURES AND BALANCES FOR QUARTER ENDING DECEMBER 31, 1894.

	Appropriated.	Expended.	Balances.
Building and repairs .....	\$25 00		\$25 00
Board expenses .....	50 00		50 00
Books and publications .....	275 00	\$211 14	63 86
Botanical apparatus .....	10 00		10 00
Bulletins .....	1,100 00	452 64	647 36
Chemical apparatus .....	25 00	13 34	11 66
Fuel and lights .....	100 00		100 00
Incidentals .....	15 00	3 00	12 00
Printing, stationery and postage .....	15 00	4 11	10 89
Salaries .....	1,500 00	886 70	613 30
Seeds and trees .....	30 00	23 55	6 45
Tools and supplies .....	100 00	66 30	33 70
Wages .....	550 00	559 33	
Sundry experiments—			
Testing durability of timber .....	50 00		50 00
Expenses of delegate to meeting of Association of American Agricultural College and Experiment Stations .....	50 00		50 00
Total .....	\$3,895 00	\$2,220 11	\$1,674 22

## PAPER D—ESTIMATES.

<i>Quarter ending December 31, 1894.</i>		
From general fund—		
For chemical apparatus and supplies .....		\$25 00
From farm fund—		
For tools and supplies.....	\$100 00	
For wages .....	100 00	200 00
<i>Quarter ending March 31, 1895.</i>		
From general fund—		
Board expense.....	\$40 00	
Buildings and repairs.....	40 00	
Books and publications.....	50 00	
Bulletins.....	700 00	
Chemical apparatus and supplies.....	50 00	
Fertilizers.....	25 00	
Fuel and lights.....	100 00	
Incidentals .....	25 00	
Printing, stationery, and postage.....	25 00	
Salaries.....	1,910 00	
Seeds and trees.....	70 00	
Tools and supplies.....	250 00	
Wages .....	750 00	
Investigation with regard to irrigation .....	25 00	\$4,060 00
From farm fund—		
Wages .....	\$250 00	
Fencing.....	400 00	
Purchase of stock.....	250 00	\$900 00

The Board of Trustees is requested to make these appropriations. It is also requested to authorize the Board of Direction of the Experiment Station to order, upon satisfactory bids, chemical apparatus and supplies to be imported, not exceeding in amount \$225.00, and botanical apparatus and supplies not exceeding in amount \$50.00.

Respectfully submitted,

T. J. BURRILL,

*President Board of Direction.*

The requests of the Board of Direction of the Experiment Station, as presented by Dr. Burrill, were granted and appropriations of Experiment Station funds were made as asked in the report.

President Draper submitted the following communication from the editor and business manager of the "Junior Annual."

UNIVERSITY OF ILLINOIS, December 6, 1894.

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

GENTLEMEN:—Through President Draper we have learned that you have granted our request, and appropriated one hundred and ten dollars for the "Junior Annual of '96." Permit us to thank you heartily for the same. We promise you a book in keeping with the honor of the institution. Thanking you for your prompt and gracious action, we remain,

Most respectfully yours,

FRED W. HONENS,

*Business Manager.*

ROBERT K. PORTER,

*Editor.*

## RESIDENCES OF PROFESSORS ON UNIVERSITY LANDS.

A communication was presented from the members of the Faculty relative to the Board of Trustees granting the use of land belonging to the University for the erection of houses to be used by instructors of the University.

The Committee on Buildings and Grounds, to which had been referred a similar paper, previously prepared, submitted the following report:

URBANA, ILL., December 6, 1894.

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

GENTLEMEN: Your Committee on Buildings and Grounds reports as follows with regard to an investigation, made by your direction, into the feasibility of permitting members of the University Faculty to erect residences upon University grounds. The committee has consulted the Attorney General with reference to the matter, and presents herewith a letter received in reply:

SPRINGFIELD, ILL., December 4, 1894.

*Hon. S. A. Bullard, Springfield, Ill.,*

DEAR SIR: Referring to the question which you submitted to me the other day, I would say that I find, under section seven of the act for the organization and maintenance of the University, that the Trustees have power to provide buildings, apparatus, and conveniences; to fix the rates for tuition; to appoint such professors and instructors, and establish and provide for the management of such model farms, model art and other departments, and professorships as may be required to teach, in the most thorough manner, such branches of learning as are related to agriculture and the mechanic arts, and military tactics without excluding other scientific and classical studies.

Are the Trustees authorized to let, for a nominal rent, to a person who is a professor in the University, a lot of ground for the purpose of enabling him to erect a dwelling to be occupied by him as such, as long as he remains a professor in the University, and when he ceases to be such, purchase the dwelling at a certain appraised value?

If the law quoted above is all there is upon the subject, I am inclined to the opinion that the authority is not clearly enough conferred to warrant such an action on the part of the Trustees with safety.

Questions of public policy I have nothing to do with. It is for me to construe the law, and in all these matters where authority is not clearly given, to proceed with caution. The legislature, however, has power to confer such authority upon the Trustees in express terms.

Yours truly,

M. L. NEWELL,

*Assistant.*

M. T. MOLONEY,

*Attorney General.*

Your committee recommends that no attempt be made at present to pursue the subject further. Your committee believes that some method through private enterprise may be made practicable in handling the matter, but has not given that phase of the subject full consideration.

Respectfully submitted,

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

*Committee on Buildings and Grounds.*

The report of the Committee was received for record.

On motion of Mr. Armstrong, the Committee on Buildings and Grounds, together with President Draper, was instructed to investi-

gate this subject further, and to present to the Board at its next meeting such a plan as it might find practicable by which residences for professors in the University may be erected on University grounds.

President Draper presented the following communication from the Faculty of the University with regard to the summer school:

SUMMER SCHOOL.

URBANA, ILL., December 5, 1894.

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

GENTLEMEN: In behalf of the Faculty of the University, the Committee of Administration respectfully presents to the Trustees the following recommendations relating to the summer school. These recommendations have received the approval of the Faculty.

The list of subjects recommended for this session is as follows: Pedagogy and psychology, political science (including history), botany, zoölogy and physiology, chemistry, mathematics, English, physical culture, manual training (wood work), and manual training (iron work).

Concerning subjects not of University grade, we advise that announcement be made in our preliminary circular that recognized University tutors will organize private classes in preparatory subjects at a fixed fee and on certain conditions, to be hereafter determined in consultation with those proposing to undertake the organization of such classes. The fees in this case will go directly to the instructor, who will not receive other compensation.

The director of the school should be empowered to make arrangements for courses of lectures additional to the regular courses of study, to be given usually by members of the Faculty of the University at a fixed compensation, in number not less than two each week nor more than one a day.

We recommend that the regular session at the University begin Monday, June 24th, but that an opportunity be offered those intending to pursue the subjects of zoölogy, botany, or entomology, for ten days' experience in field work and laboratory study of living specimens, at the University Biological Station, in Havana. To this end the Director of the Station undertakes to make the necessary provision of room, tables, microscopic equipment and other apparatus, and to open the Station to such students on June 13th.

We are of the opinion that a four weeks' session should be provided for and that a tuition fee of \$10 should be required for the entire session, with some suitable arrangement for a rebate to those who give notice in advance that they cannot remain for the full time.

We think that University students who wish to make up back work should be required to pay a double fee unless a class of at least five can be formed in the study asked for; and that students should not be permitted to study for University credits in advance, except in the subjects which are listed in the catalogue as fractional courses, and then only on payment of a double fee unless a class of five can be formed.

The Faculty of the summer school should consist of the director and the smallest number of instructors sufficient suitably to provide for the various departments, with the understanding that departments shall be combined under one instructor whenever practicable.

The corps of instruction should receive pay at the rate of one-tenth the usual annual salary of each, with the exception of the director, who should receive twice this sum. We make the latter suggestion on account of the time consumed and the labor and responsibility involved in preparing a scheme of work, in writing and publishing circulars and announcements, in conducting the necessary correspondence, and in the organization and general management of the school itself, all of which we think should be left substantially in the hands of the director.

We have deemed it wise to estimate the probable income of the school, first, from attendance, and second, from University appropriations. The first of these items we place at \$500 and the second at \$1,500, making a total of \$2,000 as the estimated income of the school for the next session. Subtracting from this \$200 for miscellaneous expenses and \$400 for the salary of the director, we have left \$1,400 for salaries of the corps of instruction. We find that the average salary for the session last year was \$150 for each instructor, and that the \$1,400 presumed to be available would enable us to provide this year a corps of ten instructors in addition to the director.

We therefore recommend that your honorable body appropriate \$1,500 for the next session of the summer school.

Respectfully submitted,

DAVID KINLEY,

*Secretary of Committee of Administration.*

On motion of Mr. Armstrong, it was voted that an appropriation of \$1,000 be made to defray—together with the fees received, which were also appropriated—the expenses of the summer school; provided that no instructor in the summer school be paid for his services more than one month's salary, according to the pay-rolls of the current year, except that the director be paid for his services, prior to the opening of the school, \$100.

Professor Kinley was chosen director of the summer school on motion of Mr. Armstrong.

George Frederickson was recommended by the Faculty to receive the degree of Bachelor of Science, and authority to confer this degree was given by the Board of Trustees.

Upon the request of Dr. Burrill and Professor Palmer, authority was given to order, upon satisfactory bids, apparatus and supplies to be imported for the botanical laboratory, to the amount of \$200, and for the chemical laboratory, to the amount of \$1,500; \$1,000 of this latter sum to be paid from the fees of the chemical department.

Thirty dollars, in addition to the \$70 already appropriated, was appropriated for the pay of the pianist in the women's gymnasium for the current year.

For the purchase of apparatus in the men's gymnasium, \$100 was appropriated.

Mr. Raab, who was at this time obliged to go, said a few words regarding his connection with the Board of Trustees of the University during his term of office as Superintendent of Public Instruction. Messrs. Graham, McLean, and Morrison were appointed to draft resolutions expressive of the esteem in which Mr. Raab's services are held by the members of the Board.

The committee appointed to consider what appropriations should be asked of the legislature, made the following report:

#### APPROPRIATIONS.

URBANA, ILL., December 5, 1894.

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

GENTLEMEN:—The committee on applications to the biennial session of the legislature, which is about to convene, reports that it has carefully investi-

gated the requests of the different departments for additional help, and has endeavored to discern the imperative needs of the University and to see in what directions funds for its extension and upbuilding should be applied to secure the largest future results. While the requests from the different departments show an intelligent grasp of their work and commendable enthusiasm in its prosecution, we have felt it necessary to ignore very many requests altogether, and to reduce materially the sums asked for in others, when we come to consider all the interests of the University together and to lay plans for its wise and harmonious future development.

If the University is to continue the course of expansion and growth upon which it has entered, and gain the position which the State University of Illinois should occupy among the universities of the neighboring states, and do what it well may in the educational work of Illinois, we are of the opinion that it would be wise for the legislature to make appropriations for the following additions to the plant. In most cases the additions are vital to meet the demands which the increasing number of students and the developing interests of the State make upon the University; in all cases they are highly desirable. The sums asked for are arrived at by careful inquiry and are the result of the best judgment we have. They are as moderate in amount as we dare suggest when we remember our obligations to the future and that the State can no longer afford to erect structures which are not impressive in appearance, suited to the uses of modern university life, and constructed of such materials and in such ways as will endure:

Library and Audience Hall.....	\$250,000 00
Museum addition to Natural History Hall.....	80,000 00
Astronomical Observatory.....	15,000 00
President's House.....	20,000 00
Central heating, lighting, and power plant.....	55,000 00
Extending the equipment for College of Engineering.....	80,000 00
Apparatus and appliances.....	6,000 00
Increase of scientific collections and cabinets.....	4,000 00
Improvements in the Chemical Laboratory.....	5,000 00
Furnishing Engineering Hall.....	20,000 00
Materials for shop practice.....	3,000 00
Dairy building.....	40,000 00
Laboratory for vegetable physiology.....	2,500 00
Paving street and laying side-walks.....	9,300 00
Fire protection.....	3,000 00
Additions to libraries.....	20,000 00
Taxes on Minnesota lands.....	3,200 00
For a small temporary building and equipment for work of the Biological Experiment Station on the Illinois River.....	5,000 00
Total.....	\$621,000 00

The operating expenses of the University have materially advanced during the last two years. They now reach the sum of \$56,000 annually, over fixed revenues, as nearly as can be estimated. Taking into consideration the continually increasing difficulty in maintaining former rates of interest on investments, the added cost of maintenance of plant as new buildings are added, and the imperative necessity of offering additional courses and improving the instruction, it will at least be necessary for the legislature to appropriate the sum of \$80,000 annually, for ordinary running expenses; and for half of the operating expenses of the Biological Experiment Station, \$2,500, the other half being borne by the State Laboratory of Natural History.

Respectfully submitted,

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

*Committee.*

The report of the committee was approved.

On motion of Mr. Morrison, \$300 was appropriated for the purchase of additional cases for the geological department.

On motion of Mr. McLean, \$130 was appropriated for the purchase of a typewriter and cabinet for the use of the College of Engineering,



## PAPER B—STATE APPROPRIATIONS.

November 30, 1894.	Received.	Expended.	Balance.	Assigned.
Closed out .....	\$65,759 31	\$65,759 31	.....	.....
Cabinets .....	1,000 00	905 61	\$94 39	\$94 39
Furnishing and heating Nat. Hist. Hall .....	6,000 00	5,330 81	669 19	669 19
Boilers and coal house .....	6,500 00	6,235 90	264 10	264 10
Engineering building .....	160,000 00	120,455 94	39,544 06	39,544 06
Applied mechanics .....	472 00	39 66	432 34	432 34
Civil engineering .....	233 00	127 90	105 10	105 10
Psychology .....	200 00	95 72	104 28	104 28
Botany .....	450 00	164 85	285 15	285 15
Library .....	10,000 00	5,846 41	4,153 59	4,153 59
Zoölogy .....	1,200 00	196 59	1,003 41	1,003 41
Architectural department .....	325 00	325 00	.....	.....
Geology .....	500 00	122 90	377 10	377 10
Chemical laboratory ventilation .....	700 00	686 55	13 45	13 45
Building and grounds .....	2,100 00	1,083 69	1,016 31	1,016 31
Mechanical engineering .....	4,000 00	2,844 02	1,155 98	1,155 98
Electrical engineering .....	5,550 00	5,550 00	.....	.....
Salaries for instruction .....	11,209 85	11,209 85	.....	.....
Pharmacy desk .....	350 00	240 95	109 05	109 05
Pedagogy .....	150 00	41 09	108 91	108 91
Greek .....	150 00	3 00	147 00	147 00
Woman's gymnasium .....	270 00	.....	270 00	270 00
Shop practice .....	300 00	300 00	.....	.....
Unassigned .....	18,981 98	.....	18,981 98	.....
Total .....	\$296,401 14	\$227,565 75	\$68,835 39	\$49,853 41
Illinois State Laboratory of Natural History...	15,313 26	10,594 20	4,719 06	2,475 06

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1893.</i>				
Before reported on .....	\$17,663 09	\$17,663 09	.....	.....
Agricultural lectures .....	250 00	153 55	\$96 45	\$96 45
Veterinary department .....	86 91	81 68	5 23	5 23
Total .....	\$18,000 00	\$17,898 32	\$101 68	\$101 68
<i>Year ending June 30, 1894.</i>				
Before reported on .....	\$14,550 00	\$14,550 00	.....	.....
Testing laboratory .....	1,700 00	1,679 67	\$20 33	\$20 33
Geology .....	300 00	298 31	1 69	1 69
Zoölogy .....	1,000 00	995 19	4 81	4 81
Civil engineering .....	950 00	950 00	.....	.....
Architecture .....	500 00	416 20	83 80	83 80
Total .....	\$19,000 00	\$18,889 37	\$110 63	\$110 63
<i>Year ending June 30, 1895.</i>				
Salaries for instruction .....	\$5,274 65	\$5,274 65	.....	.....
Testing laboratory .....	135 00	.....	\$135 00	\$135 00
Unassigned .....	14,590 35	.....	14,590 35	.....
Total .....	\$20,000 00	\$5,274 65	\$14,725 35	\$135 00

I reported to the Board November 15th the action of the local gas company upon the request of the University for a reduction in the price of gas.

The Board is requested to make available for current use \$5,000.00 of the reserve fund.

Respectfully submitted,

S. W. SHATTUCK,  
Business Agent.



The Committee on Buildings and Grounds made the following report:

SEWAGE IN BONEYARD CREEK.

URBANA, ILLINOIS, December 6, 1894.

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

GENTLEMEN:—Your Committee on Buildings and Grounds reports that in accordance with your instructions it has consulted with the mayor and city council of the city of Champaign with regard to the abatement of the nuisance caused by sewage flowing from the city of Champaign through the aboretum. The conference was very satisfactory. The city is, as your Committee believes, making good progress toward the end desired. It has received encouragement from the city of Urbana that permission may be obtained to run the sewer along the natural course, which is through the corporation of Urbana; it also appears that the city of Champaign has a system of sewerage fully planned which can be put in operation as soon as an outlet can be obtained. Our aim in the conference was to convince the city officials of the urgency of immediate action, and we believe that we were able to do this, and that the city will carry on this matter to completion. Your Committee was glad to find that all appreciated the necessity of prompt action, and seemed to be really in earnest in regard to the matter.

Respectfully submitted,

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

*Committee on Buildings and Grounds*

The Committee on Buildings and Grounds also made the following report:

ENGINEERING HALL.

URBANA, ILLINOIS, December 6, 1894.

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

GENTLEMEN: Your Committee on Buildings and Grounds reports, concerning Engineering Hall, that the work of the general contractors, Messrs. Yeager & Schultz, has been nearly completed for some time. It was so nearly completed the 15th of November—the occasion of the dedication—that no inconvenience was occasioned by any lack in that regard. The work yet remaining to be done is furnishing and putting in some hardware, some further work on the window-blinds of the physical lecture room, and a few other minor matters scarcely worthy of mention.

The extra work done by the contractors, under the direction of the committee, authorized by it on request of the engineering faculty, is as follows:

Stone work .....	\$33 69
Hardware .....	412 75
Plumbing and gas-fitting .....	1,061 51
Carpenter and brick work .....	1,223 01
Painting and varnishing .....	97 58
Total .....	\$2,828 54

In laying the foundations of the building it was found necessary to strengthen them by going to a greater depth in the earth; this cost \$495.17, making a total of \$3,313.62 extra work done by the contractors.

The work done by the general contractors, Messrs. Yeager & Schultz, and the work done by the several sub-contractors, has throughout been very satisfactory, and your Committee takes great pleasure in commending the work of these gentlemen.

Your Committee desires also to recognize the invaluable services of the local superintendents in charge of the work—Mr. I. H. Rapp, who had charge till August 15th, and Mr. S. P. Sutton, who had charge from August 15th to the end of November, when the work was substantially completed. These gentlemen have shown themselves to be thoroughly capable and have done their work to the entire satisfaction of your Committee.

From our report at the September meeting you know that the building was not completed on the terms specified in the contract. After considering again the subject of the forfeiture required in the contract, and the serious detention occasioned on account of the strikes last summer, and the additional time required for the extra work done, your Committee still feels that it is but just to the contractors that an extension of about six weeks be granted. We therefore recommend that the building be accepted, with the requirement that all remaining work be completed at the earliest possible moment, and that the contractors be settled with in full with the exception of \$5,000.00, to be paid when the work is done. That they be allowed an extension of thirty-eight days on their contract, and that a forfeiture of \$50.00 per day be declared till November 15th, the day of dedication, making a forfeiture of thirty-eight days, or \$1,900.00.

The work on the heating contract is practically done. The furniture is about half received, and we have promises that it will all be here in due season.

The building can be put to use at the beginning of the winter term, moving in taking place during the holiday vacation.

Respectfully submitted,

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

*Committee on Buildings and Grounds.*

After a somewhat prolonged discussion the report of the Committee was received and adopted, and the Committee was authorized to make a Settlement with Messrs. Yeager & Schultz according to the terms therein stated.

The following tabulated statement of the attendance at the University the present term was received:

*Summary of Students, December 5, 1894.*

COURSES AND CLASSES.	University.							Preparatory School.		University and Preparatory School.	
	Graduate School.	Resident Graduates.	Seniors.	Juniors.	Sophomores.	Freshmen.	Specials.	Men and Women.	Total.	Men and Women.	Total.
Agriculture, Men.....						7	2	9	9	4	13
Mechanical Engineering, Men.....	2		7	11	10	33	1	63	63	13	76
Electrical Engineering, Men.....			5	14	23	51	1	94	94	13	107
Civil Engineering, Men.....	1	1	13	12	20	23	2	72	72	9	81
Municipal and Sanitary Engineering, Men.....			1		1	1		3	3		3
Architecture { Men.....	2	1	12	9	16	36	3	79	80	6	85
{ Women.....						1		1			1
Architectural Engineering, Men.....			2	4	3	9		18	18	3	21

Summary of Students—*Concluded.*

COURSES AND CLASSES.	University.								Prepara- tory School.	University and Pre- paratory School.			
	Graduate School.	Resident Graduates.	Seniors	Juniors	Sophomores	Freshmen	Specials	Men and Women	Total	Men and Women	Total	Total Men and Women	Total
Chemistry { Men.....	..	..	3	3	11	17	1	35	36	1	2	36	38
{ Women.....	..	..	1	..	..	..	..	1	6	1	4	2	10
Pharmacy, Men.....	..	..	..	1	3	3	2	6	6	4	4	10	10
Natural History { Men.....	3	3	3	8	16	1	34	50	9	17	43	67	67
{ Women.....	..	1	3	3	4	4	1	16	8	..	24	..	..
Mathematics { Men.....	..	..	1	1	1	1	3	4	..	..	3	4	4
{ Women.....	..	..	..	..	..	..	1	..	..	..	1	..	..
English and Mod- { Men.....	3	1	3	12	8	31	2	60	106	12	22	72	128
ern Languages } Women.....	3	..	2	5	4	23	9	46	10	10	56	128	128
Latin { Men.....	..	1	1	3	3	6	..	10	22	2	5	12	27
{ Women.....	1	2	2	3	3	3	..	12	3	3	15	27	27
Classical { Men.....	..	2	2	3	7	8	2	24	33	6	7	30	40
{ Women.....	1	..	2	..	..	6	..	9	1	1	10	40	40
Art and Design { Men.....	..	..	..	..	..	1	2	3	11	..	..	3	12
{ Women.....	..	2	..	..	..	..	6	8	1	1	9	12	12
Music, Women.....	..	..	..	..	..	1	1	1	1	..	..	1	1
Physical Training, Women.....	..	1	..	..	..	1	2	2	2	..	..	2	2
Total { Men.....	11	5	52	72	112	243	18	513	82	..	595	..	..
{ Women.....	5	4	9	12	11	38	18	97	24	..	121	..	..
Total .....	16	9	61	84	123	281	36	610	106	..	716	..	716

Mr. Bullard made a statement with regard to an opportunity offered for advertising the University in the public schools of the state. Mr. Bullard was requested to investigate the matter further and report at the next meeting of the Board.

The Finance Committee, to which was referred the proposition of the Christian associations to sell to the University a part of their land, made a report of its progress and asked for further time. The request was granted.

The Board adjourned.

W. L. PILLSBURY,

*Secretary.*

N. W. GRAHAM,

*President.*

## MEETING OF JANUARY 10, 1895.

A special meeting of the Board of Trustees of the University of Illinois was held at the Grand Pacific Hotel, Chicago, at 7 o'clock p. m., Thursday, January 10, 1895.

The following call had been issued by the secretary:

"By order of the President, Mr. N. W. Graham, there will be a special meeting of the Board of Trustees of the University of Illinois, at the Grand Pacific Hotel, Chicago, at 7 o'clock p. m., Thursday, January 10, 1895, for the purpose of considering such business as may be duly presented."

The following members were present: Messrs. Armstrong, Graham, McKay, McLean, Morgan, Morrison, Raab, and Raymond. Absent, Governor Altgeld, and Messrs. Bullard, Bryant, and Gore.

Upon the request of Professor Burrill, President of the Board of Direction of the Experiment Station, \$75.00 was appropriated from the farm fund of the Experiment Station, to meet the shortage in the account of "tools and supplies," for the quarter ending December 31, 1894.

Twenty-five dollars was appropriated from the Experiment Station funds for the use of the chemical laboratory during the current quarter.

President Draper presented for the consideration of the Board of Trustees the following resolution:

*Resolved*, That when any instructor in the University is temporarily absent or for any reason fails to perform the duties assigned to the position, the President of the University be authorized, in his discretion, to employ such assistance as may be practicable to perform the duties of such instructor, at an amount not exceeding the compensation of such instructor for the time being and to cause the sum paid for such assistance to be deducted from the salary of the instructor whose absence has made such assistance necessary.

The resolution was adopted.

President Draper presented a communication from Professor Shea, tendering his resignation as professor of physics, to take effect September 1, 1895.

On motion of Mr. McLean, it was

*Resolved*, That the Board receives Professor Shea's resignation with great regret, and unanimously declines to accept it. The Board assures Professor Shea that it will assist him in every way practicable in promoting the growth and success of the departments of physics and electrical engineering.

The President was authorized to employ a practical electrician, who shall be an assistant in the electrical department.

The following communication from the College of Physicians and Surgeons, of Chicago, was received for record:

COLLEGE OF PHYSICIANS AND SURGEONS..

CHICAGO, December 18, 1894.

At a regular meeting of the Board of Directors of the College of Physicians and Surgeons of Chicago, held on December 15, 1894, the following resolutions were unanimously adopted:

1. That the Board of Directors of the College of Physicians and Surgeons, of Chicago, hereby proposes and agrees to sell the property and good will of the College to the Board of Trustees of the University of Illinois for a price not exceeding one hundred and sixty thousand dollars, to be agreed upon by the parties in interest or decided by a committee of arbitration upon the basis of the exact amount of money actually expended in the upbuilding of the institution.

2. That we hereby agree not to engage in negotiations with any other University pending the action of the legislature upon the foregoing proposition.

D. A. K. STEELE, *President*.

[SEAL.]

OSCAR A. KING, *Secretary*.

January 4, 1895.

At a meeting of the stockholders of the College, held January 2, 1895, the action of the Directors was unanimously approved.

WM. E. QUINE..

BY-LAWS.

Section 2 of article 9 of the By-Laws of the Board was amended to read as follows:

SECTION 2. The President shall be charged with the supervision of the educational facilities and interests of the University, and to that end shall recommend from time to time to the consideration of the Board such measures as he shall deem necessary and expedient. He shall have, under the direction of the Board or its Executive Committee, general supervision of all the departments in the University and the officers therein, and shall, at the request of the Board, recommend all professors, instructors, and assistants of the institution, that may from time to time be found needful. He shall report in full, in writing, at the annual meeting of the Board of Trustees what has been done during the year in the several departments of the University, together with recommendations as to the future requirements of the University, as may seem to him needful. At other meetings he shall present, in writing or otherwise, such matters as he finds necessary to bring to the consideration of the Board.

The committee appointed to consider the purchase of the College of Physicians and Surgeons made an informal report of progress.

The following resolution, offered by Mr. McLean, was adopted:

*Resolved*, That the committee on the College of Physicians and Surgeons be requested to ascertain and report to this Board, at once, the actual value of the real estate and other property belonging to the College of Physicians and Surgeons, and that the committee have authority to expend whatever money may be necessary in order to ascertain the facts upon which to base such report.

The following resolution, offered by Mr. Morrison, was adopted:

*Resolved*, That the Committee on Buildings and Grounds together with the President of the University and the professor of architecture be and hereby are directed to determine the general characteristics of the new buildings for which it has been decided to make application to the legislature and to cause sketches and drawings of such proposed buildings to be prepared by the architectural department of the University to an extent which will clearly indicate to the members of the legislature and others the proportions and character of the same, and that when needed appropriations are insured said committee shall take measures to secure the best possible plans and designs for such buildings, or at least for the proposed library building, by the largest practicable competition among the architects of the country.

Mr. McKay moved that the sum of \$80,000.00, which it was proposed to ask of the legislature for current expenses, be increased to \$100,000.00; the increase to be used, if obtained, for building up the departments of history and of social science and economics.

Pending the consideration of this motion, the Board adjourned to meet at 9 o'clock the next morning.

#### MORNING SESSION.

The Board met pursuant to adjournment, the same members being present as the evening before.

The committee appointed at the last meeting of the Board to prepare resolutions concerning Mr. Raab, presented the following, which were adopted:

WHEREAS, The Honorable Henry Raab, Superintendent of Public Instruction, and, *ex officio*, a member of the Board of Trustees of the University of Illinois, has served on this Board for the past four years; and

WHEREAS, By the expiration of his term of office he is about to sever his connection with the Board, we deem it eminently proper to adopt the following resolutions:

*Resolved*, That we, the members of the Board of Trustees of the University of Illinois, do thank Mr. Raab for his prompt and constant attendance at our meetings.

*Resolved*, That we express to him our high appreciation of his sterling and upright character, and wise counsel, at all times frankly and zealously given.

*Resolved*, That we extend to Mr. Raab our sincere good wishes for his future success in life and for his prosperity in all his undertakings.

*Resolved*, That the Secretary be requested to hand a copy of these resolutions to Hon. Henry Raab.

ALEX. MCLEAN,  
NELSON W. GRAHAM,  
N. B. MORRISON,

Committee,

On motion of Mr. Armstrong, it was voted that the bill with regard to scholarships in the University, which was presented at the last session of the legislature, should be offered again at this session.

The Secretary was directed to note that Mr. Ralph P. Smith, PH.B., had been appointed instructor in German for the current college year, at a salary of \$100.00 a month for ten months, beginning September 1, 1894; and that Captain D. H. Brush, of the 17th U. S. Infantry, detailed by the War Department as military instructor.

in the University, had been appointed professor of military science and tactics, and had entered upon his duties September 1, 1894.

President Draper was authorized to employ a messenger for service in his office.

On motion of Mr. Morgan, it was voted that the President of the Board of Trustees and Dr. Draper should prepare a comprehensive paper showing the needs of the University, to be used in promoting the passage of appropriation bills. It was ordered that the statement should bear the signatures of all the members of the Board.

The motion offered by Mr. McKay before the Board adjourned Thursday evening, was again considered, and, with the consent of the mover, it was changed so as to increase the \$80,000.00 to \$90,000.00, and in that form was passed.

The legislative committee which should have charge of the appropriation bills was appointed, consisting of the following persons: President Draper, the Executive Committee of the Board, Mr. McLean, chairman of the Finance Committee, and Messrs. Morgan and Armstrong.

The Board then went into executive session, after which it adjourned.

N. W. GRAHAM,

*President.*

W. L. PILLSBURY,

*Secretary.*

## MEETING OF FEBRUARY 12, 1895.

The following call for a special meeting of the Board of Trustees of the University of Illinois, was issued February 2, 1895:

"By order of the President, Mr. N. W. Graham, there will be a special meeting of the Board of Trustees of the University of Illinois, at the office of the Superintendent of Public Instruction, Springfield, Illinois, at 10 o'clock a. m., Tuesday, February 12, 1895, for the purpose of considering such business as may be duly presented."

The members of the Board being assembled at the Leland Hotel, it was decided to accept an invitation from Governor Altgeld to hold the first session of the meeting at the Executive Mansion.

The Board was called to order there at 10 o'clock a. m.

There were present Governor Altgeld, and Messrs. Armstrong, Bullard, Graham, Inglis, McKay, McLean, Morrison, and Raymond, and Dr. Julia Holmes Smith. Mr. J. W. Judy was absent.

Colonel Morgan had met with the Board at informal sessions held Monday evening and Tuesday morning, but had not been able to remain for the regular meeting.

Mr. John H. Bryant had resigned as a member of the Board of Trustees, and Dr. Julia Holmes Smith, of Chicago had been appointed by the Governor and confirmed by the Senate as a member of the Board in his place.

Mrs. Lucy L. Flower, a member-elect of the Board, was present by invitation.

President Draper read an address to the Thirty-ninth General Assembly, which he had prepared concerning the University by direction of the Board:

## UNIVERSITY OF ILLINOIS.

*To the Members of the Thirty-ninth General Assembly of Illinois:*

Shall Illinois develop a State University worthy of her imperial position among the states? Shall she be under the necessity of making apologies, or shall she erect a University which compares favorably with those of the surrounding states? Shall we build up a complete, symmetrical public school system, and shall we have a University which may rightfully stand at the head of such an ideal system, stimulate all its departments, fill our sons and daughters with a desire for liberal learning, and make it unnecessary for them to go beyond the borders of the state to get whatever and all they may crave? Our resources are inexhaustible; our great and rapidly growing population is full of energy, and engrossed with affairs. Shall we go on with the evolu-



tion of a University which will not only promote the development of these resources, but also act strongly upon the intellectual life of this great people?

We have been chosen by the men and women of Illinois, a constituency even greater than that of all the members of the General Assembly combined, to carry on this work. We should come short of discharging our duty to the people, and to the high interests involved, if we did not press these questions upon the members of the General Assembly. We do it with earnestness, for we have reached the time in the history of the University when its future is to be determined. The circumstances are critical. The time has come to decide whether the State University of Illinois shall become a first-class, or a third-class, or a fifth-class University. We cannot decide and make our decision effectual. Even the people themselves cannot act, for the way is not open. The decision is with the law makers. We must carry the matter to them, and with them we are obliged to leave the responsibility. To the end that they may act wisely, that they may meet their responsibility with confidence, we ask that the broad subject may have very full, even painstaking, consideration.

We ask a great deal at the hands of the legislature; it is not for ourselves, but for Illinois. We do not ask that any project or questionable wisdom shall be entered upon. The propriety of government help for universities is well settled the world over. All of the constitutional governments of Europe extend it. Harvard, Yale, Princeton, Columbia, are all resultants of the wisdom and generosity with which their states supported their earlier years, fully as much as of the private benevolence with which their affectionate children have promoted their more mature development. In all the central and western states the policy of developing State Universities, is all well established as any other policy of government. In nearly all of these states broad foundations have been laid, and great progress has already been made.

The last year or two has witnessed a decided advance in nearly all of the states. The University of Ohio had an income last year of \$183,783.69. It has a guarantee of 1-20 of a mill on all assessable property of the State; it has 750 students. The two institutions in Indiana, which between them cover the work of our University, have 1,422 students. The University of Michigan has the avails of a regular state tax of 1-6 of a mill; the annual income is about \$400,000; it has 2,800 students. The University of Wisconsin has a permanent tax of 1-8 of a mill and an additional tax of 1-10 of a mill for the six years following 1891; its annual income is \$260,000; besides this the legislature has appropriated \$165,000 in the last two years; its buildings and equipment aggregate \$1,000,000, and an application is now before the legislature for \$360,000 for a new library building; it has 1,500 students. Since February, 1891, the University of Missouri has received \$1,525,000 from the legislature, and the value of building, grounds, and equipment is more than \$2,200,000; the regular annual income is about \$290,000. Minnesota has 2,100 students in all departments in her state University, to which she gives a tax of 15-100 of a mill regularly, and recently appropriated \$200.00, for buildings. The University of California has recently received \$400,000, for engineering work alone. There is hardly one of the state universities which has not, within the last two or three years, received appropriations for plant and operating expenses far greater than ever before, and which has not extended its courses of instruction and improved the quality of its work accordingly.

Why is it necessary to put so much money into universities? Because University work is without limits. The University is a seat of learning where "any person can find instruction in any study." The essence of modern University work is investigation and research *in whatever direction the student may desire to go*. Thirty years ago the student was required to follow a prescribed course; now he exercises his option in all of the great Universities. This is of large value to him, but it involves an infinite number of courses. Not only the enlargement of the field of learning, but the vast improvement in the system of instruction adds to the expense. Thirty years ago the instruction was largely catechetical, but now that kind of instruction would not be tolerated in any respectable institution. Extensive libraries are imperative. In every department, shops, or laboratories, in which students pursue investigations and carry theories into practical operation, and seminary rooms,

in which they may discuss all the questions involved, are required. All this demands accommodations and equipments which are extensive and costly, and must be frequently changed to keep pace with the progress of learning.

But this is not all. The University ought to render directly to the people a service of inestimable public value in the way of information touching the economic uses of the resources and products of the State, and bearing upon the employments and life of the people. To carry on such work is surely within the domain and powers of the state government. That government comes short of its duties and purposes which does not promote it. The people all desire it, and they give support to no institution more cheerfully than to the ones which are able to do it. Innumerable applications for services of this kind are brought to the University, and we are anxious to meet them. The state University, representing all the people, and standing above any private or commercial interest, can carry on work of this class with an independence and an authoritative decisiveness which are hardly possible in an institution supported by private benefactions. Moreover, it is obvious that unless this class of work is carried on by the state University, it will hardly be carried on at all. But all this requires educated men, the latest facilities, and sometimes long experimentation and considerable money before definite and valuable results can be announced.

Again, in the interests of the future, it must be frankly admitted that the organization and work at the University is too one-sided, and must be broader and more comprehensive before we can expect to attain even measurably a university ideal worthy of our great state.

The University was founded upon the proceeds of the Morrill Land Grant Act, the main purpose of which was the promotion of agriculture and the mechanic arts. The state has kept faith with the terms of that enactment.

The University has rendered a great service to the good cause of scientific agriculture in the foremost agricultural state in the Union,—perhaps not all it might have rendered, but a very great service nevertheless. It has recently entirely reorganized the plans and work of the College of Agriculture, and confidently hopes to make that service even more satisfactory in the future than in the past.

We believe that we may safely claim that it has developed the foremost College of Engineering in the west, and one of the three largest in the country.

The superior attainments and the persistent liberality of the small scientific staff of the University have enabled it to perform considerable very valuable work in the physical and natural sciences, which has gained it wide celebrity in scientific circles.

All this is of the highest importance, but it is far from making an ideal whole for a university. There is a world of thought, as well as a world of matter. The state's children are to be trained and disciplined to deal with men as well as with things; to live in organized society as well as labor with the hands. The greatness of the state can safely be left dependent, not upon resources, not upon numbers, not upon luck or chance, not even upon industry alone, but upon the extent to which the intellectual life and the moral sense of the people are developed and trained for sound and profitable social relations, upon the extent to which ambition is aroused by the world's history, upon the extent to which people value public security and personal liberty, and are intelligent and intent upon securing them. Right here is at once the greatest educational necessity and the grandest educational opportunity. The questions of paramount importance at the present time are within the domain of literature, law, history, political ethics, economics, sociology, philosophy, etc. With the city of greatest proportions and most rapid growth of any city in the country within our borders, these questions press more heavily upon the people of this than of any other state. The great centers of educated thought in the country, through their work and through their graduates, will radiate influences which will settle these questions. For reasons which are obvious they cannot be safely left to institutions supported by private capital and peculiarly and naturally sensitive to individual opinions and corporate interests. Surely the

university of a state whose people have larger interests in these subjects than any other people in the country cannot be considered complete which is not abundantly equipped to pursue these great lines of intellectual investigation which so naturally devolve upon it. Yet it is here that our University stands most in need.

The learned professions organized and have always given virility and power to the universities, and in return the universities have been the conservators and promoters of the learned professions. No university is complete without associated professional schools. Once established, they are likely to be nearly or quite self-sustaining, and they give vitality to the thought and energy to the influence of the whole institution.

An opportunity is offered for absorbing into the University, the College of Physicians and Surgeons of Chicago, by the purchase of the property at its cost. This medical college, it is needless to say, is one of the leading institutions of its class in the city. Other medical colleges of equal standing have been already absorbed by other universities. The proposition has been frequently mentioned in the newspapers of the state, and is apparently considered very favorably. It seems to present an opportunity for securing a medical department for the University and to open the way for the University to render a service to the medical profession, while it would at the same time enlarge our advantages and our opportunities by identifying University interests with the interests of the city of Chicago. If, upon examination, this project should meet the approbation of the legislature, its consummation would accomplish the most difficult step in the direction of developing an ideal university organization.

More than twenty years ago the University was opened to women on the same terms as to men. Yet the line of work we have most strongly developed is not adapted to the tastes or employments of women, and therefore the advantages held out to them are not equal to those enjoyed by the men. Accordingly the number of women students is only about one-sixth of the entire body.

These considerations point to the wisdom, even the necessity of a greater development of courses in the classics, in literature, in history, in political economy, in the fine arts, and kindred lines of learning. The information and culture studies are now richly deserving of more attention than they have heretofore had.

It surely will not be said that it is not the policy of the state to do this. If that were true the state should have done less than it has done in these directions. If it is not true it should do a great deal more than it has done. Our neighboring states are all developing great literary and professional schools. Some of them organized state universities before they opened their land grant colleges. All are proceeding on both lines now and both lines of work are imperative to a complete university. How far they have proceeded it is interesting to us to note, and it may be indicated by a very brief statement. With the great city of Chicago and its vast institutions within our borders, it would be expected that more college students would come to Illinois from the surrounding states to be educated than would be sent to those states by us for that purpose. Yet the last available report of the United States Bureau of Education shows that while we have in the colleges of Illinois 558 students from other states, we have sent 1,154 students from this state to the colleges of other states. It may be more interesting to make a comparison with our nearest neighbors, and when we do so the facts are even more striking. The states of Ohio, Michigan, Wisconsin, Indiana, and Illinois, comprise the old Northwest Territory. The mighty ordinance of 1787, ante-dating and rivaling the Constitution itself, which erected this favored Territory, declared that "religion, morality and knowledge being necessary to good government and the happiness of mankind, schools and the means of education shall forever be encouraged." The history of these five great states has not been very unlike, nor the opportunities very unequal. Certainly no one will say that Illinois is excusable in being behind any one of them in any laudable undertaking and most assuredly not in the observance of beneficent work enshrined in the hearts of the people and embodied in the organic and funda-

mental law. Yet we send 83 college students to Indiana, and received but 54 back; we send 91 to Ohio and receive but 41 back; we send 70 to Wisconsin and receive but 42 back; we send 239 to Michigan and receive only 30 back. These figures do no not include the students in the professional schools (*i. e.*, the law schools, medical schools, etc.); if we were to count those the result would be against us very much more strongly.

Notwithstanding this fact, it is gratifying to know that the figures also show that in the aggregate Illinois sends more students to college in proportion to her population than either Indiana, Wisconsin, or Michigan. Indiana has one college student to every 1,409 people; Wisconsin, one to every 1,364; Michigan, one to every 1,383; while Illinois has one to every 1,292 people. But one conclusion results from all this, and that is that the people of Illinois are demanding more college facilities than we are providing; that they know what they want and are determined to get it, and that they are finding it in states which are doing more than we are in the matter.

It is unnecessary to offer any suggestions as to the importance of the state training her own children, and in her own way. As great a state as Illinois, is strong enough to look the facts squarely in the face and go about providing a remedy, and when their attention is once called to the facts her law makers will violate all the traditions and characteristics of the state if they do not provide the remedy speedily and heroically.

When ask to specify the most urgent needs of the University, we will say that in the way of additions to the plant larger and fire-proof buildings for our library and museum collections, which are now in a cramped building which is not fire-proof and is unprotected, and is much needed for other purposes; an audience room which is large enough to accommodate our general meetings; a central heating and lighting plant, which is safely equal to the demands upon it; an agricultural building; a small astronomical observatory, all are entitled to rank in the first class. It is quite possible that two or more of these wants may be advantageously met in the same structure, but as much as the University needs substantial help we will concur in the opinion that the state cannot afford to erect permanent structures which are not of a character calculated to promote the future growth of the institution and be attractive and useful in the days when the student body shall be doubled or trebled, and the work shall be so extended as to reach and uplift every interest of the people in all parts of the commonwealth.

In the way of equipment we need such additions to the library as will put the University into possession of the world's latest knowledge upon its different lines of work. Our scientific collections must be augmented, if our scientific experiments are to be extended and made of wider value; and our engineering equipment must be enlarged and improved if we can expect to advance or to hold our position among the technical schools of the country.

The appropriations for operation expenses, which meet the salaries of professors and instructors, care of property, and all ordinary running expenses, must be materially increased if we are to expand the work of the University so as to make it altogether worthy of the state, and meet the demands which the people are making upon us. Indeed, this must be done if the healthful growth which has recently been manifest is not to be arrested.

We cannot go into detail or offer proof or argument to any extent in this communication, but we shall be prepared to present the same to the appropriate committees with all the precision and exactness that can be desired.

In the meantime, is it too much to suggest that this subject is of sufficient importance to the future interests of this imperial state to justify careful legislative examination of all the circumstances at the State University, and perhaps at the universities of some of the neighboring states, by a committee specially charged with that duty for the purpose of determining what the duty of the legislature may be in the premises?

We respectfully submit these observations with entire confidence that no member of the General Assembly would have Illinois behind any other state of the Union in any wise and beneficent policy which she undertakes to carry

out but that all, with one voice, will say that whatever she undertakes to do she shall do as well and as competely as any one does it, or abandon the undertaking.

URBANA ILLINOIS, February 12, 1895.

J. W. JUDY,  
S. M. INGLIS,  
F. M. MCKAY,  
ALEX. MCLEAN,  
S. A. BULLARD,  
R. P. MORGAN,  
JULIA HOLMES SMITH,  
NELSON W. GRAHAM,  
N. B. MORRISON,  
JAMES E. ARMSTRONG,  
ISAAC S. RAYMOND,  
LUCY L. FLOWER,

*Trustees of the University of Illinois.*

The Board adopted the address, and Messrs. McLean, Raymond, and Pillsbury were appointed a committee to publish the address with instructions to expend a sum not to exceed \$250.00 for that purpose.

On motion of Mr. Armstrong, it was voted to reconsider the motion by which the report of the committee on legislative appropriations (see page 50) made at the December meeting of the Board, was approved.

After a discussion covering the whole of the morning session the list of appropriations to be asked for was amended to read as follows, and the report of the committee so amended was adopted:

<i>Per Annum Appropriations.</i>	
Taxes on Minnesota lands.....	\$1,500 00
Running expenses.....	90,000 00
Additions to libraries.....	10,000 00
Additions to apparatus and appliances.....	3,000 00
Materials for shop practice.....	1,500 00
Increase of scientific cabinets and collections.....	2,000 00
Operating expenses of biological station.....	2,500 00
<i>Appropriations for Building, Etc.</i>	
For library building and assembly hall, and safe accommodation of art, industrial, and zoölogical collections.....	250,000 00
Astronomical observatory.....	15,000 00
President's house.....	12,000 00
Completing the fitting and furnishing Engineering Hall.....	10,000 00
Extending equipment of College of Engineering and for changing and housing machinery.....	50,000 00
Improvements in Chemical Laboratory.....	5,000 00
For dairy building.....	40,000 00
Laboratory of vegetable physiology.....	2,500 00
Paving streets and laying walks.....	3,300 00
Fire protection.....	3,000 00
Building for Biological Station on Illinois River.....	5,000 00

The Board then adjourned to meet at 2:30 p. m., in Parlör 5, Leland Hotel.

## AFTERNOON SESSION.

The Board met pursuant to adjournment.

It was voted that a bill, as follows, with regard to the purchase of the College of Physicians and Surgeons, of Chicago, should be introduced in the General Assembly:

A BILL FOR AN ACT to enable the University of Illinois to acquire the property and good will of the College of Physicians and Surgeons, of Chicago, and to establish a professional medical department in connection with said University.

SECTION 1. *Be it enacted by the People of the State of Illinois represented in General Assembly:* That the University of Illinois be and is hereby authorized to acquire the property and good will of the College of Physicians and Surgeons, of Chicago, and organize a professional medical department of said University.

SEC. 2. The price to be paid for the property of said college shall not exceed the sum of \$160,000, and shall be agreed upon by the parties in interest or decided by a committee of arbitration upon the basis of the exact amount of money actually expended in the upbuilding of said college.

SEC. 3. No part of the purchase price shall be paid until a certified copy of the agreement between the parties, or of the determination of the arbitrators, be filed in the office of the Auditor of Public Accounts, nor until the Attorney General shall certify that the title to said property is free and clear of all incumbrances and that the deed by which it is proposed to convey the same to the University is correct in form and sufficient to vest said title in said University.

SEC. 4. In organizing said medical department at said University the Board of Trustees shall appoint all necessary officers, professors, and instructors, fix all salaries and do whatever may seem advisable to maintain such medical department upon the highest possible plane of excellence and efficiency, but said Trustees shall recognize no particular schools of medicine to the exclusion or disparagement of any other school. Said Trustees shall maintain tuition fees in said department upon a basis which will make said department self-supporting so far as practicable.

SEC. 5. The sum of \$160,000, or so much thereof as may be necessary, is hereby appropriated to carry out the purpose of this act, which shall be paid out of any moneys in the treasury not otherwise appropriated; and the Auditor of Public Accounts is hereby authorized and directed to draw his warrant on the treasury for the sum so agreed upon or determined as the value of said property, upon the order of the Chairman of the Board of Trustees of said University attested by the Secretary and seal of said University, and the certificate of the Attorney General herein provided for.

An appropriation of \$240 from current funds was made to cover the expenses of visiting high schools.

The digging of a well on the south farm at an expense not to exceed \$200 was authorized. The Farm Committee was charged with the work.

A request from the class of '95 to be allowed to make an inscription on a stone at the right of the entrance to Engineering Hall was denied, and it was voted that for the future no class inscriptions should be made on the buildings.

The appropriation of \$30 for partitions in Professor Frederick's rooms was made.

For Board expenses \$200, and for incidental expenses \$250 were appropriated.

On motion of Mr. Bullard, it was voted that the Executive Committee be instructed to purchase the Chase property on Springfield avenue between Wright street and our shops, in the City of Urbana, Ill., and pay not to exceed the sum of \$7,000 therefor, which sum was appropriated from the general fund for that purpose. It was also voted that the abstract of title should be submitted to Judge Cunningham.

Dr. Draper's bill of expenses amounting to \$80.59 was ordered paid.

President Graham appointed Mr. Inglis and Dr. Smith members of the Committee on Instruction, and Mr. Judy a member of the Farm Committee.

An appropriation of \$100 was made for the *Technograph*.

The Treasurer was instructed to transfer \$7,000 of Kankakee bonds held as part of the general fund to the endowment fund and \$7,000 cash from the endowment fund to the general fund.

The board adjourned to meet at 7:30 o'clock p. m.

#### EVENING SESSION.

At the evening session a conference was had with Mr. Meyer, speaker of the house of representatives, and Mr. Dunlap, chairman of the senate committee on appropriations.

The Board adjourned to meet at 8 o'clock a. m., Wednesday.

#### MORNING SESSION.

No quorum was present and the Board adjourned.

W. L. PILLSBURY, <i>Secretary.</i>	N. W. GRAHAM, <i>President.</i>
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#### MEETING OF THE EXECUTIVE COMMITTEE.

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A meeting of the Executive Committee of the Board of Trustees of the University of Illinois was held in Parlor 5, Leland Hotel, at 9 o'clock a. m., Wednesday, February 13, 1895. All the members of the committee were present.

There was presented from the Faculty of the University a set of by-laws which had been adopted by the Faculty, and to which the Board of Trustees was requested to give its approval.

#### BY-LAWS OF THE FACULTY.

1. The Faculty of the University shall consist of the President and all the resident professors and assistant professors, and of such others as have independent charge of departments of the University instruction, and the Librarian. The President of the University shall be its president, and the dean of the general Faculty its Vice-President, *ex officio*, and a Secretary shall be chosen annually by ballot at the first regular meeting in September.

2. The Faculty of the University shall have control of the discipline and studies of the University, and shall make, in their behalf, from time to time, such regulations as it may deem expedient.

3. The Faculty of the University shall hold its regular meetings at 4 o'clock p. m., on the first Monday of each month during the term, except that the first meeting of the college year shall be held the Friday preceding the opening of the fall term. The President shall have power to call special meetings of the Faculty as he may deem necessary. The order of business at each meeting shall be:

1. Calling the roll of members.
2. Reading minutes of last meeting.
3. Reports of officers.
4. Reports of committees.
5. Reports from the several colleges.
6. Unfinished business.
7. New and miscellaneous business.

4. The President, Vice-President, and Secretary shall have the powers and perform the duties usually devolving upon such officers.

5. The standing committees of the Faculty shall be as follows, all except the Committee of Administration, to be elected annually by the Faculty, at the first meeting of the year, or as soon thereafter as practicable, by ballot, upon nominations to be presented by the Committee of Administration, each committee to hold office till its successor is elected:

- |  |                                      |
|--|--------------------------------------|
| 1. A committee of administration to consist of the President, the Vice-President, and the Deans. | 3. A committee on military affairs.  |
| 2. A committee on admission and preparatory schools.   | 4. A committee on athletics.         |
|  | 5. A committee on students' welfare. |
|  | 6. A committee on library.           |

6. The President shall be chairman of the Committee on Administration, and shall be, *ex officio*, a member of each other committee, in addition to the members elected.

7. The duties and powers of the standing committees shall be (1) to originate, consider, and recommend to the Faculty lines of policy and particular measures in their several provinces; and (2) to act upon all matters referred to them by the Faculty.

The Committee of Administration shall have all the authority of the Faculty itself, *ad interim*, when necessity or the dispatch of business requires it, provided that it shall not change any action of the Faculty without the consent, in writing, of at least a majority of the latter.

8. The University shall comprise four colleges: the College of Agriculture, the College of Engineering, the College of Science, and the College of Literature and Arts. The faculty of each of the several colleges shall consist of the President and of such professors, instructors, and assistants as shall annually be assigned to it by the President.

9. The officers of each college faculty shall be a dean and a secretary, the first to be elected by the Trustees of the University and the second by the faculty of his college. It shall be the duty of the dean to call and preside over all the meetings of the faculty of his college. He shall decide, at his discretion, subject to the approval of the college faculty at its next meeting, all matters coming within the sphere of that faculty which involve merely the application of established rules or fixed principles of action to individual cases. He shall further be responsible for the execution within the college, of all rules and orders made by the college faculty. All official communications from members of the college to higher University authority concerning the affairs of the college or any department thereof, shall be transmitted through the dean who may endorse thereon such recommendation as he may deem advisable. The secretary shall keep the records of the college faculty meetings, and shall give notice of the called meetings to each member of the faculty.

10. The faculty of each college shall meet at the call of the dean and at his discretion, except that he shall call a meeting at any time on the written request of one-third of the faculty. The duty of the college faculty shall be to



recommend to the Faculty of the University such acts or policies as it may deem for the good of the college; and to transact such business as may be referred to it by the general Faculty. It shall also have power to take original action upon the affairs of its students, in pursuance of the established rules or the fixed practice of the University, but all such action shall be reported forthwith, to the President of the University, and shall be subject to revision by the general Faculty. All requests by students shall be referred by the President direct to the various college faculties with power, where the nature of the case indicates such action.

11. The University departments of administration shall be as follows: Agriculture, veterinary science, mathematics, architecture (architectural engineering), civil engineering, mechanical engineering, municipal and sanitary engineering (theoretical and applied mechanics), physics, electrical engineering, general engineering drawing, art and design, botany and horticulture, geology (mineralogy), zoölogy (physiology), entomology, general biology, chemistry (pharmacy), applied chemistry, economics, pedagogy, philosophy (anthropology), psychology, history, English, German, Greek, Latin, Romance languages, military science, gymnasium, physical culture for women, and the library.

12. The ranking instructor in each department shall be the head of the department, and shall be responsible to the President for the execution in his department of all regulations and orders of the faculties concerning courses and programs of study, and for the progress and general development of all branches of the departmental work. He shall make all department reports, prepare estimates for the expenses of his department, and be responsible for the distribution and expenditure of funds assigned to it. All official communications from members of his department shall be addressed to him, and shall be forwarded by him, with his endorsement, to the proper authority.

13. Numbers 1, 2, 8, 9, and 10 of the above by-laws may be amended by vote of the Faculty and the approval of the Trustees, and the remaining by-laws by vote of the Faculty alone: *Provided*, that no amendment be adopted by the Faculty until it has lain upon the table at least one week.

The by-laws were approved.

It was also ordered that in presenting the courses of study in the catalogues of the University hereafter the order shall be:

1. College of Literature and Arts.
2. College of Engineering.
3. College of Science.
4. College of Agriculture.

The following resolution was adopted:

In view of the fact that efforts have been made to discriminate against the use of Illinois coal on the ground of the large per cent. of volatile carbon, and since the coal industry of our state involves so large and important interests of the state;

*Resolved*, That Professor Breckenridge is hereby directed to begin such mechanical, physical, electrical, and chemical experiments as he may deem advisable, looking to the more perfect combustion of Illinois coal, both as to treatment and to amount of heat units utilized; and, further,

*Resolved*, That he be requested to make known to this Board at its next regular meeting the assistance required and the necessary expenditure of money, together with other items of interest in this connection.

Adjourned,

N. W. GRAHAM,

*President.*

W. L. PILLSBURY,

*Clerk.*

## MEETING OF MARCH 12, 1895.

The Board of Trustees of the University of Illinois met in the University Parlor, Urbana, at 3 o'clock p. m., Tuesday, March 12, 1895. The members present were Messrs. Armstrong, Bullard, Graham, Inglis, McLean, Morgan, Morrison, Raymond, Dr. Julia H. Smith, and Mrs. Flower; absent, Governor Altgeld and Mr. Judy.

The newly elected members, Messrs. McLean, Bullard, and Mrs. Flower, had already taken and filed the required oath of office.

The minutes of the meetings of December 5, 1894, and January 10, and February 12, 1895, were approved.

The President announced as the next business the election of a President of the Board for the ensuing year, stating at the same time that he was not himself a candidate for re-election. Mr. Bullard nominated Mr. Armstrong, and Mr. McLean nominated Mr. Morrison. On the twelfth ballot Mr. Graham received five of the eight votes cast, and was declared elected. The election was made unanimous on motion of Mr. Morgan.

On motion of Mr. Morgan, W. L. Pillsbury was elected Corresponding and Recording Secretary and Registrar, with a salary of \$1,200 a year.

On motion of Mr. Morrison, Mr. Charles W. Spalding was elected Treasurer, his bond to be in the same amount as heretofore—\$600,000.

President Draper presented the following report:

## PRESIDENT'S REPORT.

URBANA, ILLINOIS, March 12, 1895.

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

GENTLEMEN: By action of the Board the term of service of professors, assistant professors, and associate professors is at the pleasure of the Board, so that they continue indefinitely in the absence of action to the contrary. The service of members of the corps of instruction who come within these classes is reasonably satisfactory. However, it seems to me that circumstances have so changed at one or two points in our work as to render changes in the arrangements touching professors advisable.

Without attempting to give here all the reasons for the recommendation, I advise that the services of the assistant professor of psychology be discontinued after the present year, and that a suitable person be employed who is primarily adapted to the examination of high schools seeking place upon our accredited list, and who shall spend as much of his time for that purpose as may be deemed necessary and the remainder of his time in work at the Uni-

versity, and that the courses heretofore assigned to the professor of pedagogy, the assistant professor of psychology, and the instructor in philosophy, be rearranged to conform to the readjustment.

The whole question of reorganization of the Agricultural Department is now open and demands your attention at this time. You will remember that Professor Davenport was engaged as Dean of the college, as a member of the staff of the Experiment Station, and as a professor; but the title of his professorship was left for determination after consultation with him. It has been generally agreed that the whole subject of general agriculture has become too large to be properly in charge of one man. The ground can be covered in the most superficial way only, either in investigation or instruction, by any one person, and superficial work cannot be tolerated with us. Your consideration is therefore asked to a division of the department, as follows:

1. A subdivision including the breeding, feeding, and care of animals.
2. A subdivision of agriculture proper, or the specialties concerning soils and crops.
3. Dairy manufactures.

Professor Davenport desires that the first of these divisions be assigned to him and that he be styled Professor of Animal Husbandry. In addition to the specialties thus defined the subject of comparative agriculture may be added to the duties of this chair, so that the head of the general department shall lecture upon the inter-relations and comprehensive bearings of all agricultural topics among themselves and to other subjects.

As chief of the second division some one should be appointed with the rank and title of associate professor of agriculture, with the understanding that more definite designation of title may sometime be made. The salary proposed at the outset is \$1,600.00 to be divided equally between the instruction account and the Experiment Station, and the time of beginning of service September first.

The third division should be organized as soon as practicable. An initial salary of \$1,200.00 and the rank of assistant professor may be named for one who should have charge of this work.

In studying the conditions and prospects of the College of Agriculture the subject of veterinary science must be included. The course of instruction at present offered is insufficient to prepare students to become reputable practitioners in what is now one of the regular professions. On the other hand the student of general agriculture can hardly find time for the full course as now given, nor do his requirements seem to demand it. It therefore seems policy to establish a full course from which students may graduate as professional veterinarians, or to reduce the instruction to that concerning the common diseases of domestic animals, to meet the needs of agriculturists.

The first of these proposals would require the appointment of at least one more professor; the second would demand instruction in the winter term only. Under all the circumstances of the case, with the recent establishment elsewhere of veterinary colleges apparently equal to the demand, the latter alternative seems to be the advisable one, if any change is to be made.

The question of filling the two new positions mentioned, if these are created, is a very important one and must be left for further consideration. The success of the movement so depends upon the persons appointed that the utmost care must be taken in the selection of the man or men deemed best fitted for the work, whether or not this means the advancement of any one now employed.

In the further development of the horticultural department the creation of an assistant professorship, with a salary of not less than \$1,500.00 to be divided between the instruction account and the Experiment Station, is recommended, subject to the same conditions in regard to appointment as the above.

I am of the opinion that an important readjustment in the sphere of physical culture and athletics is advisable. The arrangement of the last year has been highly unsatisfactory. The same theories and general plan should pre-

vail upon the same subject throughout the University and apply so far as practicable to men and women alike. It is recommended that the services of the present instructors be discontinued and that a single department of physical training be established, with a director at its head who shall have general direction of all the work in that line, and that an instructor or assistant be provided to act under his direction in carrying on such work as may probably be delegated to such a person. There is reason to believe that greater efficiency and more harmony of action would result from the arrangement, with a smaller expenditure of money. What money can be saved by this arrangement may well be devoted to assist in the employment of expert coaches for one or more of the athletic teams. A director could probably be secured who could coach one or more of these teams, but it is hardly practicable to secure one who could render that service to all. I am much interested in our physical training and athletic sports. It is important that a competent authority in the University should be charged with the duty of looking after the health and sound physical development of not a few, but of all the students. It is important that we also encourage and at the same time exercise such control as may be necessary over the athletic sports. We shall find ourselves discredited in the minds of students, and measurably so in the minds of the public, if we neglect to do this, for it has come to be an important avenue for gaining public attention. We shall doubtless find that such management will promote good fellowship and, if well directed, stimulate a healthful moral tone among the students.

It is recommended that the following instructors be reappointed for the ensuing year, but upon the understanding that their precise positions, duties, and salaries, will be determined at the June meeting, viz: George Washington Parker, George Perkins Clinton, Thomas Arkle Clark, Cyrus Daniel McLane, Cyril Balfour Clark, Herman S. Piatt, James David Phillips, Charles Alexander Gunn, William Esty, Bernard Victor Swenson, Albert Root Curtiss, Frank Smith, Lorin William Peabody, George Washington McCluer, Henry Jones, Helen Eliza Butterfield, Jeremiah George Mosier, Harry Sands Grindley, Robert Clarke Vial, Fred Anson Sager.

I also recommend the reappointment of Percy Favor Bicknell as librarian, and of Edward Gardnier Howe as principal, and Nathan Austin Weston and Lillie Adelle Clendenin as instructors in the Preparatory School.

Miss Alice May Barber does not desire reappointment.

As to instructors and assistants not named above I can only say that I am not yet prepared to recommend their reappointment.

It seems to me that the interests of the University imperatively call for the organization of a department of music, and I suggest that the Board at least authorize the initiatory steps in that direction. Very respectfully,

A. S. DRAPER.

*President.*

Professor Shea presented his resignation, which was referred to President Draper and Mr. Armstrong.

A petition was received from a number of students asking that, if possible, provision be made for instruction in political science and jurisprudence in the College of Literature and Arts. The petition was referred to the Committee on Instruction.

A letter was received from the editor and the business manager of the *Illio* asking for assistance from the Board in paying their publication expenses. This letter was laid over until the next meeting of the Board.

Messrs. Morgan, Armstrong and Morrison were appointed a committee to prepare resolutions with regard to the suspension of certain students for hazing. President Draper made a full explanation of the action taken by the Council of Administration with regard to this suspension.

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

#### SESSION OF WEDNESDAY MORNING.

When the Board met pursuant to adjournment, the same members were present as Tuesday afternoon, except Dr. Smith and Mrs. Flower.

On motion of Mr. Armstrong, Dr. Draper and Professor Shattuck, the Business Agent, were authorized to make arrangements to take care of the legislative committee which was expected to visit the University Friday. They were given power to spend such a sum of money for this purpose as might be found necessary,

Messrs. Yeager & Schultz, contractors on Engineering Hall, were, on motion of Mr. Morgan, given an opportunity to state their reasons for asking a remission of the penalty enforced against them on account of their delay in completing the building according to the terms of the contract. After they had been heard, it was voted, on motion of Mr. Morrison, that the contractors should present their claims to the Committee on Buildings and Grounds, when appointed.

The request of W. O. Krohn for an appropriation to meet expenses incurred and future expenses in the psychological laboratory was referred to the Committee on Finance.

On motion of Mr. Bullard, Messrs. McLean and Morrison were elected members of the Executive Committee of the Board.

The President announced the standing committees of the Board as follows:

*Farm*—Isaac S. Raymond, chairman; N. B. Morrison, Alex. McLean, J. W. Judy.

*Buildings and Grounds*—Richard P. Morgan, chairman; N. B. Morrison, Alexander McLean, I. S. Raymond.

*Finance*—N. B. Morrison, chairman; S. A. Bullard, J. E. Armstrong.

*Instruction*—J. E. Armstrong, chairman; S. A. Bullard, S. M. Inglis, Dr. Julia H. Smith.

*Publication*—Nelson W. Graham, chairman; President Draper, W. L. Pillsbury.

*Library*—President Draper, chairman; S. M. Inglis, Mrs. Flower, Professor S. W. Shattuck, Percy F. Bicknell.

*Students' Welfare*—Dr. Julia H. Smith, chairman; Mrs. Flower, R. P. Morgan.

The committee last named is a new committee.

President Draper presented the report of the Experiment Station.

## EXPERIMENT STATION REPORT.

URBANA, Illinois, March 12, 1895.

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

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

*Paper A* is a list of warrants drawn, Nos. 81 to 171, inclusive, for the quarter ending December 31, 1894, and is accompanied with vouchers for the same for audit.*Paper B* is a statement of expenditures for the quarter ending December 31, 1894.*Paper C* is a statement of appropriations, expenditures and balances for the quarter ending March 31, 1895.*Paper D* is a statement of appropriations asked for the current quarter and for the next quarter.

## PAPER B—STATEMENT OF EXPENDITURES FOR QUARTER ENDING DECEMBER 31, 1894.

Board expense .....	\$38 16
Books and publications.....	225 28
Bulletins and report.....	823 55
Chemical apparatus.....	49 76
Fuel and lights.....	71 40
Incidentals.....	5 72
Printing, stationery, and postage.....	25 57
Salaries.....	1,440 05
Seeds and trees.....	31 50
Tools and supplies.....	97 91
Wages.....	589 33
Total.....	\$3,398 23

## PAPER C—APPROPRIATIONS, EXPENDITURES AND BALANCES, QUARTER ENDING MARCH 31, 1895.

	Appropriated.	Expended.	Balances.
Board expenses.....	\$40 00	.....	\$40 00
Buildings and repairs .....	40 00	.....	40 00
Books and publications .....	50 00	83 00	47 00
Bulletins .....	700 00	13 50	686 50
Chemical apparatus and supplies .....	75 00	57 19	17 81
Fertilizers.....	25 00	21 50	3 50
Fuel and lights .....	100 00	.....	100 00
Incidentals .....	25 00	.....	25 00
Printing, stationery, and postage.....	25 00	5 34	19 66
Salaries .....	1,910 00	1,183 31	726 69
Seeds and trees .....	70 00	2 75	67 25
Tools and supplies.....	250 00	58 35	191 65
Wages .....	750 00	310 00	440 00
Sundry experiments—			
Wood durability experiment.....	.....	14 24	.....
Investigation with regard to irrigation.....	25 00	.....	25 00
Total.....	\$4,085 00	\$1,669 18	\$2,430 06

## PAPER D—ESTIMATES.

<i>Quarter ending March 31, 1895.</i>	
From general fund—	
Botanical apparatus.....	\$10 00
Wood durability experiment.....	50 00
Total.....	\$60 00
<i>Quarter ending June 30, 1895.</i>	
From general fund—	
Board expenses.....	\$40 00
Books and publications.....	50 00
Botanical apparatus.....	10 00
Bulletins.....	300 00
Chemical apparatus.....	50 00
Fuel and lights.....	100 00
Incidentals.....	25 00
Printing, stationery, and postage.....	25 00
Salaries.....	1,960 00
Seeds and trees.....	30 00
Tools and supplies.....	200 00
Wages.....	1,250 00
Wood durability experiment.....	50 00
Total.....	\$4,090 00
From farm fund—	
Buildings and repairs.....	\$400 00
Irrigation experiment.....	125 00
Total.....	\$525 00

The Board of Direction asks authority to undertake these two lines of investigation:

1. Soil experiments with field crops.
2. Irrigation experiments.

The other work which the Board proposes to carry on is along the lines already authorized.

The Board of Direction, until its next meeting, will retain its present staff at salaries now paid.

Respectfully submitted,

T. J. BURRILL,  
President Board of Direction.

Authority was given the Board of Direction to carry on the new experiments named in its report, and appropriations were made for expenses of the Station, according to the estimates presented.

The Secretary reported that E. E. Chester, of Champaign; E. A. Riehl, of Alton, and H. B. Gurler, of DeKalb, were recommended for membership in the Board of Direction of the Experiment Station by the Illinois State Board of Agriculture, the State Horticultural Society, and the State Dairymen's Association, respectively. They were, thereupon, elected members of the Board of Direction.

Messrs. Raymond and Morrison, and Professors Burrill, Forbes, and Davenport were also elected members of the Board of Direction. Professor Burrill was made President of the Board of Direction, and Messrs. Raymond and Morrison were appointed members of its Executive Committee.

Dr. A. S. Draper was elected President of the University for the next two years, at a salary of \$7,000 per annum.

A request having been presented for the opening of White street, across the north campus, the following resolution was adopted on motion of Mr. Morrison:

*Resolved*, That the opening of White street, through the University grounds, is undesirable because it would be destructive of the drill ground and athletic park, and that the officers of the Board be directed to take any necessary steps to prevent the consummation of any movement in that direction.

The matter of reorganization of the department of Psychology was, after some discussion, referred to the Committee on Instruction, and President Draper, with power to act.

President Graham called Mr. Bullard to the chair and he presided for the rest of the session.

On motion of Mr. Armstrong, the recommendations of the President, with regard to the reorganization of the Department of Agriculture, were referred to the Committee on Instruction.

On recommendation of the Finance Committee, further consideration of Professor Krohn's bill was postponed till the June meeting.

The following resolution was adopted with regard to the Department of Physical Training:

*Resolved*, That after the present University year, the physical training, both as to men and women, be embraced in a single department, to the end that there may be uniformity of theory and procedure upon a single subject throughout the University, and that a director of this department be appointed at a salary of \$1,600 per annum, with an assistant at \$700 per annum, and that the President of the University be authorized to expend not to exceed \$400 per year in employing expert assistants to coach the athletic teams.

The following resolution concerning the Department of Music was adopted:

*Resolved*, That the President of the University be requested to report to the Board, as soon as practicable, a plan for starting a department of music, indicating what instructors should be employed, naming suitable persons whose services can be secured and the salaries it may be necessary to pay them, to the end that the Board may determine whether it is practicable to make such a move.

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

*Resolved*, That Professor Eugene Davenport's title be Professor of Animal Husbandry.

Instructors were reappointed for the ensuing year in accordance with the recommendations made in the President's report.

Professor J. D. Bruner's resignation of the professorship of Romance languages was accepted. Mrs. J. D. Bruner's (Elizabeth C. Cooley) resignation of the assistant professorship of the German language and literature was accepted.

On motion of Mr. Morrison, \$25,00 was appropriated from the general fund for repairs on the rifle range.



The matter of the safety of the second floor of Machinery Hall was referred to the Committee on Buildings and Grounds.

On Motion of Mr. McLean it was voted that measures be taken to secure the establishment of a United States signal station at the University.

The following papers with regard to experiments with coal were received from Professor Breckenridge and referred to the Committee on Buildings and Grounds:

#### EXPERIMENTS WITH COAL.

UNIVERSITY OF ILLINOIS, URBANA, February 11, 1895.

*President A. S. Draper,*

DEAR SIR: During the present year we have been making a few experiments to determine the evaporative power of several grades of Illinois coal. The results are not what should be obtained with ordinary good coal. The considerable interest taken in the work started here leads me to believe that this University should at once prepare for the most extensive and scientific tests of our coal products. The many devices on the market for smoke prevention should be fully investigated so that the manufacturing interests of the state may have reliable information concerning the efficacy of any of these devices.

A careful survey of the work done by different American and foreign inventors and manufacturers should be made and a bulletin should be issued from time to time giving the results of the investigations as the work advances.

A careful and systematic attempt should be made to endeavor to discover, if possible, in what way a maximum economy may be combined with minimum smoke production.

These tests should be made under practical every day conditions. Boilers of different types should be operated under such conditions as are found at all manufacturing points.

The tests should be made with different sizes as well as grades of Illinois coal.

Careful chemical analysis should be made of the coals used as well as the refuse and escaping gases.

Arrangements should be made so that the draft and air supply may be entirely under the control of the experimenter.

It would also be advisable to arrange so that the air supply may be heated before being used.

You will recognize the importance to our state coal interest that work of this description be undertaken.

In order that this work may be taken up it would be necessary to expend considerable money for suitable apparatus, such as fan blower for pressure, fan blower for exhaust, steam induction blower, engine and air compressor, reheating furnace, anemometers, pyrometers.

Considerable expense would be incurred in setting up and taking down the different devices offered for tests.

It seems to me we should not undertake to do this work unless we could have ten thousand dollars to devote to the work.

We expect to erect, so I understand, a central heating plant. This will contain at least 1,000 H. P. of boilers and suitable chimney.

We could use any of this plant for purposes of this test, but we should provide sufficient room so that builders may come here and erect a boiler and furnace for purposes of testing.

These tests would surely accomplish much good. They would attract considerable attention to our University from all parts of the state, and if possible such tests should be undertaken.

Yours truly,

L. P. BRECKENRIDGE,  
*Professor of Mechanical Engineering.*

UNIVERSITY OF ILLINOIS,  
URBANA, March 12, 1895.

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

GENTLEMEN: In accordance with your request made at your last meeting, I have considered the question of experiments in connection with the economical burning of coal under steam boilers. I submit to you a report which I had already prepared for your last meeting, and which did not at that time come to your notice. This report covers the principal features of the case, and is probably what you desire.

I understand that you have decided that a central heating plant is not necessary at the University of Illinois. The crowded condition of our present boiler house will not allow of making experiments on as careful and satisfactory a plan as was anticipated in the report above referred to. It is probable, however, that something can be done; but I am very much opposed to making very much stir outside our regular work, because we can not go into the subject in so careful a manner as we should do if we are to advertise generally throughout the state that we are making scientific tests looking toward the economical consumption of coal and prevention of smoke.

I have received proposals from three different concerns representing as many devices for smoke prevention.

The first two appliances could, with advantage, be experimented with here, and to do that would not involve any serious changes in our boiler construction, but simply the introduction of special grate bars or devices in introducing warm air near the bridge wall.

It occurs to me, however, that it would be more advantageous, as far as results obtained are concerned, if money could be appropriated so that tests could be made of such devices as exist in different parts of the state for producing economical results and smoke prevention, and that we be authorized to go to these places for the purpose of making the test. This would give us an opportunity of testing a larger number of devices than we could possibly afford to test in our present quarters, and I should much prefer to recommend that a small sum, say \$500.00, be appropriated for making tests at Chicago. After this amount was expended we should be able to see how far such money would reach, and what the expense would be of making these tests at the different cities. It would be necessary to go to different places, where the devices exist, obtain permission (which I think it would be possible to do), ship our apparatus to these points, make a series of trials, and then move on to some other place.

I submit these recommendations for your consideration, as requested, believing that something in the line of work indicated is very desirable, and would be of value to the University and state.

Very respectfully submitted,

L. P. BRECKENRIDGE,  
*Professor of Mechanical Engineering.*

A communication from Mr. W. R. Howe, offering to do grading on Green street at prices named, was referred to the Committee on Buildings and Grounds.

Mr. Armstrong, to whom, with President Draper, Professor Shea's resignation had been referred, reported recommending that the

President be instructed to say to Professor Shea that it is the unanimous wish of the Board that he withdraw his resignation.

On motion of Mr. McLean, it was voted that the Business Agent be requested to report to the Committee on Buildings and Grounds the salaries of all employés of the University, except those on the corps of instruction.

The bill of the Electric Lighting and Power Company for power furnished in September and October, 1894, amounting to seventy-eight dollars, was ordered paid from current funds.

The Committee on Buildings and Grounds made the following report, which was adopted, and amount named was ordered paid to G. W. Bullard, architect of Engineering Hall:

URBANA, ILL., March 13, 1895.

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

GENTLEMEN: Your Committee on Buildings and Grounds recommends the payment of the final fee of the architect of the new building, amounting to \$1,044.64.

Respectfully submitted,

S. A. BULLARD,  
N. B. MORRISON,  
R. P. MORGAN,

*Committee on Building and Grounds.*

The Finance Committee made the following report, which was adopted:

URBANA, ILL., March 13, 1895.

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

GENTLEMEN: Your Finance Committee reports that it has examined the vouchers of the Agricultural Experiment Station, Nos. 81 to 171, inclusive, and has found the same correct and duly receipted.

Respectfully submitted,

ALEXANDER McLEAN,  
J. E. ARMSTRONG,

*Finance Committee.*

On motion of Mr. McLean it was voted to pay Messrs. Yeager & Schultz \$4,900, leaving \$100 to be retained till some further work had been done.

On motion of Mr. Morgan the Secretary was directed to write Mr. C. W. Spalding with regard to the employment of Professor McMurry, and also with regard to the rule of the Board concerning the employment of the professors in the University.

The following resolution was adopted on motion of Mr. Morgan:

*Resolved*, That we greatly regret that our venerated wise counsellor and colleague, John H. Bryant, should have felt it imperative, on account of his advanced age and enforced absence in the south, to resign his position as Trustee, and that we extend to him our most cordial best wishes for the remainder of his long and eminently useful life.

The Secretary is instructed to forward a copy of this resolution to Mr. Bryant.

On motion of Mr. Armstrong, Messrs. Armstrong, McLean, and Bullard were appointed a committee to prepare resolutions concerning the services of Mr. McKay while a member of the Board.

The Treasurer's report was received and referred to the Finance Committee.

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,  
FEBRUARY 28, 1895.

1894.	Dr.		
November 30	To balance		\$145,034 67
December 11	Received interest, contract No. 62, E. W. Harms, assignee.	\$250 00	
" 12	" " " " No. 81, Frank Topka	63 00	
" 12	" " " " principal, " " No. 81, Frank Topka	150 00	
" 15	" " " " interest, " " No. 83, L. S. Botten	39 20	
" 15	" " " " " " " " No. 109, Otto Monson	28 00	
" 18	" " " " from S. W. Shattuck, on general fund	1,001 50	
" 21	" " " " principal, contract No. 35, Losey & Martin	600 00	
" 21	" " " " interest, " " " " No. 35, Losey & Martin	48 00	
" 24	" " " " principal, " " " " No. 36, L. L. Ruyle, assignee.	1,500 00	
" 24	" " " " interest, " " " " No. 36, L. L. Ruyle, assignee.	120 00	
" 24	" " " " " " " " No. 73, O. Mattson	84 00	
" 26	" " " " " " " " No. 40, Jos. Dezort	96 00	
" 27	" " " " principal, " " " " No. 65, Jos. Cuta	200 00	
" 27	" " " " interest, " " " " No. 65, Jos. Cuta	84 00	
" 27	" " " " principal, " " " " No. 72, Dale & Roise, assignees	240 00	
" 27	" " " " interest, " " " " No. 72, Dale & Roise, assignees	148 12	
" 28	" " " " principal, " " " " No. 79, Ole Sorenson	75 80	
" 28	" " " " interest, " " " " No. 79, Ole Sorenson	74 20	
" 31	" " " " principal, " " " " No. 71, Thos. Peterson	60 00	
" 31	" " " " interest, " " " " No. 71, Thos. Peterson	4 20	
" 31	" " " " " " " " No. 63, R. O. Braaten	4 39	
1895.			
January 2	" " Austin coupons due Jan. 1, 1895	575 00	
" 2	" " principal, contract No. 45, Blevins & Miller	1,556 10	
" 2	" " " " interest, " " " " No. 45, Blevins & Miller	124 48	
" 2	" " " " principal, " " " " No. 64, E. Lindquist	100 00	
" 2	" " " " interest, " " " " No. 64, E. Lindquist	84 00	
" 3	" " " " " " " " No. 69, B. Pederson	14 70	
" 3	" " " " " " " " No. 74, B. Pederson	14 70	
" 4	" " " " " " " " No. 72, Dale & Roise, assign's	8 37	
" 4	" " " " " " " " No. 66, Peter Larson	84 00	
" 5	" " Gallatin county coupons due Jan. 1, 1895	630 00	
" 5	" " Crawford county coupons due Jan. 1, 1895	600 00	
" 5	" " principal, contract No. 53, F. Novotny, assignee	200 00	
" 5	" " " " interest, " " " " No. 53, F. Novotny, assignee	56 00	
" 5	" " " " " " " " No. 112, Ole Lindquist	79 63	
" 7	" " from W. L. Pillsbury, on farm fund account	765 11	
" 7	" " U. S. Experiment Station warrant	3,750 00	
" 7	" " principal, contract No. 38, N. R. Simpson, as- signee	800 00	
" 7	" " interest, contract No. 38, N. R. Simpson as- signee	64 00	
" 7	" " interest, contract No. 46, W. H. Ruyle, assignee	96 15	
" 7	" " principal, contract No. 57, C. Anderson	300 00	
" 7	" " " " interest, " " " " No. 57, C. Anderson	24 00	
" 7	" " " " principal, " " " " No. 75, S. J. Halquist	150 00	
" 7	" " " " interest, " " " " No. 75, S. J. Halquist	73 50	
" 7	" " " " " " " " No. 76, S. J. Halquist	73 50	
" 9	" " principal, " " " " No. 99, Nels Olson	100 00	
" 9	" " " " interest, " " " " No. 99, Nels Olson	42 00	
" 9	" " " " " " " " No. 98, John T. Egan	52 50	
" 9	" " from S. W. Shattuck, on general fund	1,596 04	
" 11	" " balance 1894 interest, contract No. 46, W. H. Ruyle, assignee	7 53	
" 11	" " interest on contract No. 46, W. H. Ruyle, as- signee	96 00	
" 21	" " interest on contract No. 39, J. E. Blickenstaff	24 20	
" 21	" " principal, contract No. 54, B. F. Leiby	100 00	
" 21	" " " " interest, " " " " No. 54, B. F. Leiby	106 40	
" 23	" " principal, " " " " No. 41, Christianson & Losey	850 00	
" 23	" " " " interest, contract No. 41, Christianson & Losey	73 00	
" 29	" " from S. W. Shattuck on general fund	2,744 51	
February 4	" " Champaign county coupons due Feb. 1, 1895	270 00	
" 4	" " principal, contract No. 77, Wm. Buethe	200 00	

*Treasurer's Report—Concluded.*

1895.									
February	4	Received interest, contract No. 77, Wm. Buethé.....	\$14 00						
"	4	" principal, " No. 78, Wm. Buethé.....	200 00						
"	4	" interest, " No. 78, Wm. Buethé.....	14 00						
"	4	" principal, " No. 80, Wm. Buethé, assignee.....	120 00						
"	4	" interest, " No. 80, Wm. Buethé, assignee.....	67 20						
"	4	" account interest on Buethé contracts.....	3 50						
"	6	" Mattoon coupons due Feb. 1, 1895.....	150 00						
"	6	" principal, contract No. 67, J. A. DuBois, assignee.....	400 00						
"	6	" interest, " No. 67, J. A. DuBois, assignee.....	30 50						
"	18	" principal, " No. 32, P. C. O'Brien.....	1,543 50						
"	18	" interest, " No. 32, P. C. O'Brien.....	140 50						
"	23	" principal, " No. 95, Mars & Simpson.....	1,000 00						
"	23	" interest, " No. 95, Mars & Simpson.....	93 20						
"	25	" from S. W. Shattuck on general fund.....	2,000 00						
"	25	" by transfer of 5 Kankakee bonds to endow- ment fund.....	5,000 00						
"	28	" from S. W. Shattuck on general fund.....	1,976 18						
"	28	" interest to date at 4 per cent. on endowment fund.....	412 45						
"	28	" interest to date at 2½ per cent. on all other funds.....	362 64						
								\$34,883 50	
								\$179,918 17	
<i>Cr.</i>									
February	28	By amount paid out of general fund as per list of war- rants attached hereto.....	\$17,289 53						
"	28	By amount paid out of state appropriations as per list of warrants attached thereto.....	50,505 37						
"	28	By amount paid out of State Laboratory of Natural His- tory fund, as per list of warrants attached hereto.....	1,920 64						
"	28	By amount paid out U. S. fund, as per list of warrants attached hereto.....	8,441 74						
"	28	By amount paid out of U. S. Experiment Station fund, as per list of warrants attached hereto.....	3,241 05						
"	28	By amount paid out of U. S. Experiment Station farm fund, as per list of warrants attached hereto.....	953 20						
"	28	By amount paid out of endowment fund for Kankakee bonds.....	5,000 00						
								\$87,351 53	
<i>Balances:</i>									
State appropriations—									
Current fund.....			\$17,790 81						
Engineering Hall.....			11,334 84						
Other appropriations.....			5,126 57						
General fund.....			4,629 75						
U. S. fund.....			8,022 18						
Endowment fund.....			41,664 90						
U. S. Experiment Station fund.....			3,395 50						
U. S. Experiment Station farm fund account.....			602 09						
								\$92,566 64	
								\$179,918 17	

Professor Shattuck presented his report as business agent:

BUSINESS AGENT'S REPORT.

UNIVERSITY OF ILLINOIS, March 12, 1895.

*Nelson W. Graham, President of the Board of Trustees, University of Illinois,*

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

*Paper A*, a showing of the current appropriations from Dec. 1, 1894, to Feb. 28, 1895.

*Paper B*, the condition of the state appropriations Feb. 28, 1895.

*Paper C*, the United States fund Feb. 28, 1895.

*Paper D*, a list of vouchers, presented for audit, being Nos. 1,551 to 2,125 of old series, and Nos. 1 to 500, new series.

*Paper E*, an estimate of receipts and expenses for the six months ending Sept. 1, 1895.

*Paper F*, an estimate for the three months ending June 1, 1895.

*Paper G*, a list of appropriations the Board is requested to make at this time.

## PAPER A—CURRENT APPROPRIATIONS.

December 5, 1894, and January 10 and February 12, 1895.	Appropriated.	Receipts appropriated.	Expended.	Balance.
Board expense.....	\$600 00		\$384 13	\$215 87
Salaries for instruction and for President { Current..... } 22,734 00			2,036 37	
{ U. S. fund..... }			8,631 37	48 09
{ State..... }			12,018 17	
Salaries for services.....	3,005 00		2,018 29	86 71
Buildings and grounds.....	200 00		138 88	61 12
Fuel and lights.....	3,000 00	\$198 75	3,035 63	163 12
Stationery and printing.....	400 00		389 58	10 42
Preparatory School.....	200 00	1,168 50	1,314 22	54 28
Mechanical department.....	255 00	358 65	612 29	1 36
Architectural department.....	270 00	801 27	1,276 99	
Horticultural department.....	75 00	37 85	103 68	9 17
Military department.....	50 00		31 96	18 04
Laboratories.....	400 00	554 66	871 17	83 49
Library and apparatus.....	50 00		17 76	32 24
Incidentals.....	450 00		444 98	5 02
<i>Sundries—</i>				
Water supply.....	125 00		125 00	
Furniture and fixtures.....	317 41		219 10	98 31
Heating apparatus.....	300 00		261 06	38 94
Advertising.....	608 10		450 22	157 88
Biological Station.....	915 52		188 06	727 46
Art department.....	102 39		30 21	72 18
President's office.....	27 10		27 10	
Accredited schools.....	382 34		259 40	122 94
Band instruments.....	16 68		13 77	2 91
<i>Illini.....</i>	357 15		128 57	228 58
<i>The Technograph.....</i>	100 00			100 00
<i>Junior Annual.....</i>	110 00		110 00	
Gymnasium.....	100 00		84 56	15 44
Moving into Engineering Hall.....	300 00		171 20	128 80
Inauguration and dedication.....	135 10		135 10	
Publication of exercises.....	300 00		2 25	297 75
Publication of Trustees' address.....	250 00		43 08	206 92
Chase property.....	7,000 00			7,000 00
Summer school.....	1,000 00		65 34	934 66
South and Griggs farms.....	240 98	1,620 00	164 00	1,696 98
Typewriter and cabinet.....	130 00		130 00	
Music fees.....		133 40	133 40	

## PAPER B—STATE APPROPRIATIONS.

February 28, 1895.	Received.	Expended.	Balance.	Assigned.
Closed out.....	\$90,694 16	\$90,694 16		
Cabinets.....	1,000 00	953 01	\$46 99	\$46 99
Furnishing and heating Natural History Hall.....	6,000 00	5,361 99	638 01	638 01
Engineering building.....	160,000 00	153,725 05	6,274 95	6,274 95
Applied mechanics.....	472 00	39 66	432 34	432 34
Civil engineering.....	233 00	179 60	53 40	53 40
Psychology.....	200 00	190 70	9 30	9 30
Botany.....	450 00	176 15	273 85	273 85
Library.....	10,000 00	8,852 03	1,147 97	1,147 97
Zoölogy.....	1,200 00	421 66	778 34	778 34
Geology.....	500 00	197 10	302 90	302 90
Buildings and grounds.....	2,100 00	1,717 34	382 66	382 66
Mechanical engineering.....	4,000 00	3,175 65	824 35	824 35
Municipal and sanitary engineering.....	50 00	1 90	48 10	48 10
Salaries for instruction.....	12,018 17	12,018 17		
Geology cases.....	300 00	286 00	14 00	14 00
Pedagogy.....	150 00	115 53	34 47	34 47
Greek.....	150 00	50 65	99 35	99 35
Woman's gymnasium.....	300 00	43 00	257 00	257 00
Shop practice.....	300 00	300 00		
Unassigned.....	6,283 81		6,283 81	
Total.....	\$296,401 14	\$278,499 35	\$17,901 79	\$11,617 98
Illinois State Laboratory of Natural History....	\$15,313 26	\$12,408 65	\$2,904 61	\$660 61

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1893.</i>				
Before reported on.....	\$17,663 09	\$17,663 09		
Agricultural lectures.....	250 00	156 93	\$93 07	\$93 07
Veterinary department.....	86 91	86 91		
Total.....	\$18,000 00	\$17,906 93	\$93 07	\$93 07
<i>Year ending June 30, 1894.</i>				
Before reported on.....	\$15,500 00	\$15,500 00		
Testing laboratory.....	1,700 00	1,700 00		
Geology.....	300 00	300 00		
Zoology.....	1,000 00	1,000 00		
Architecture.....	500 00	459 53	\$40 47	\$40 47
Total.....	\$19,000 00	\$18,959 53	\$40 47	\$40 47
<i>Year ending June 30, 1895.</i>				
Salaries for instruction.....	\$13,906 28	\$13,906 28		
Testing laboratory.....	135 00	125 60	\$9 40	\$9 40
Electrical engineering.....	1,000 00	946 68	53 32	53 32
Unassigned.....	4,958 72		4,958 72	
Total.....	\$20,000 00	\$14,958 56	\$5,021 44	\$62 72

With this paper I also connect a bill for \$112.69, presented by Charles W. Spalding, Treasurer.

By the custom of many years, the appropriations from current funds become inoperative if not used within the quarter that they are made. Hence it will be necessary to take action again in the matter of the Chase property purchase, if it is to be paid for. I have not included an item for that purpose in the list of appropriations of paper G, as the assignments before made from the State and United States funds, together with the usual appropriations for the three months, exceed the available funds, including the \$8,000 of the reserve fund.

It will be necessary to put off a part of the usual payments of May and June till the July interest on the endowment is received.

The attention of the [Board was drawn to the condition of the finances at its meeting in September last (see report of meeting, page 31). Since then it has appropriated a large amount outside of the budget presented by the Business Agent.

The Board is requested to make the following assignments:

From the State appropriations—	
For shop practice .....	\$300 00
For salaries for instruction .....	5,983 81
From the United States fund—	
For salaries for instruction .....	5,154 98
It is also requested to make available for current use the balance of the reserve fund.....	8,000 00

Respectfully submitted,

S. W. SHATTUCK,

*Business Agent.*

On motion of Mr. Armstrong, assignments of state appropriations and of United States fund, were made as requested in the Business Agent's report. (See above.)

On motion of Mr. McLean, the remaining \$1,000 of Kankakee bonds held as a part of the general fund, were ordered transferred to the endowment fund, the general fund to be reimbursed therefor by cash from the endowment fund.

The following appropriations were made, as recommended by the Business Agent:

## APPROPRIATIONS.

Board expense .....	\$400 00
Salaries for instruction and President.....	23,844 00
Salaries for services.....	3,100 00
Buildings and grounds.....	200 00
Fuel and lights.....	2,500 00
Stationery, printing, postage, and catalogue.....	1,200 00
Laboratories .....	200 00
Library and apparatus .....	50 00
Military department.....	50 00
Mechanical, architectural, and horticultural departments.....	300 00
Incidentals .....	200 00
Water supply.....	125 00
Furniture and fixtures.....	100 00
Heating apparatus.....	200 00
Shop practice classes.....	300 00
Advertising .....	balance.
Biological station .....	157 88
Art department .....	727 46
Accredited schools.....	72 18
<i>Illini</i> .....	122 94
<i>The Technograph</i> .....	228 58
Gymnasium .....	100 00
Publication of exercises.....	15 44
Publication of Trustees' address.....	297 75
Summer school.....	206 92
South farm well.....	934 66
	200 00
Total .....	\$35,832 81

It appearing that the Executive Committee of the Board, to which had been referred the matter of the purchase of the Chase property, had taken no action concerning the purchase, the vote whereby the purchase was ordered at the meeting of February 12th (see page 68), was reconsidered, and the matter was referred to the Committee on Buildings and Grounds.

The bill of the Treasurer, C. W. Spalding, amounting to \$112.69, was ordered paid.

The Executive Committee of the Agricultural Experiment Station was requested to consider a plan of reorganization of the Station and to report upon the same at the June meeting of the Board.

Mr. Morgan, of the committee to which the matter had been referred, offered the following resolutions with regard to the hazing incident:

*Resolved*, That the Board approves and commends the action of the Council of Administration in suspending students who were engaged in the recent kidnapping of the president of the freshmen class, and will cordially support any future action which may be necessary to prevent effectually any conduct on the part of the students which interferes with the rights of individuals or reflects harmfully upon the University.

*Resolved, further*, That the Board is highly gratified by the moral courage and good sound sense displayed by the students in pledging themselves against hazing and any action not for the best welfare of themselves and the University.



The resolutions were adopted.

On motion of Mr. McLean, it was directed that hereafter inventories of the several departments of the University be made at the September meeting.

On motion of Mr. Morgan, the Board adjourned.

N. W. GRAHAM,

*President.*

W. L. PILLSBURY,

*Secretary.*

## MEETING OF JUNE 11, 1895.

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The Board of Trustees of the University of Illinois met in the University parlor, Urbana, Illinois, at 3 o'clock p. m., Tuesday, June 11, 1895.

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

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

Mr. Graham suggested that in recording the minutes it be stated, after the list of committees on page 74, that the last named committee, that on Students' Welfare, was a new committee.

The President presented his report.

### PRESIDENT'S REPORT.

URBANA, ILLINOIS, June 11, 1895.

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

GENTLEMEN: The Faculty of the University respectfully recommends that you give authority to confer first degrees as follows:

### DEGREES.

#### COLLEGE OF LITERATURE AND ARTS. Degree of Bachelor of Arts.

Joel Edward Ferris,  
Parker Hale Hoag,

Bertha Marion Pillsbury,  
Marion Emeline Sparks.

#### COLLEGE OF LITERATURE AND ARTS. Degree of Bachelor of Literature.

Robert Allen Bower,  
George Henry Campbell,  
Sherman Duffy,  
Marianna Green,  
Francis Edward King,  
Edward Loring Mann,

William Ira Roysdon,  
Daisy Coffin Scott,  
William John Scott,  
Henry Harrison Scurlock,  
Bertha Spencer,  
Marion Thompson.

## COLLEGE OF ENGINEERING. Degree of Bachelor of Science.

*Course in Architecture.*

Herbert Clarke Arms,  
William Thomas Burrill,  
Alexander Donnan,  
Alfred Fellheimer,  
Frederick Blair Keeler,  
Edward John Lake,

Albert Milton Long,  
Fred Elbert Mather,  
William Robert Morrison,  
Charles William Noble,  
Arthur Low Pillsbury,  
Thomas Washington Reely,  
Joseph William Royer.

*Course in Architectural Engineering.*

William Henry Dillon,

Stephen Ford Holtzman,  
Homer Thomas.

*Course in Civil Engineering.*

Harry William Baum,  
Charles Worth Beach,  
William Guthrie Boon,  
Ray Shepherd Carberry,  
Milo Smith Ketchum,  
William Clarence Smith Lemen,

Robbins Yale Maxon,  
Alexander Majors Munn,  
John Conrad Quade,  
Harley Edson Reeves,  
Charles Victor Seastone,  
John Eaton Shepardson,  
Godfrey Sperling.

*Course in Electrical Engineering.*

Earl Vanhise Capps,  
Jesse Grant Funston,  
Ernest Alexander Hunt,  
Peter Junkersfeld,

William Haven Kimball,  
Walter Noble Vance,  
Charles Carlton Webster,  
Parker Merrill Williams.

*Course in Mechanical Engineering.*

Charles Barry,  
Fred Albert Beebe,  
Frank Lyman Busey,  
Clyde Robert Carnack,

James Albert Green,  
Elmer Kirkpatrick Hiles,  
David Rossiter Llewellyn,  
Albert Jefferson Sayers.

*Course in Municipal and Sanitary Engineering.*

Charles Baker Burdick,

Clarence Adelbert Clement.

## COLLEGE OF SCIENCE. Degree of Bachelor of Science.

*Course in Chemistry.*

John DeWitt Clinton,  
Armin Harms,

James Albert Kinkead (Class of 1893),  
Herbert Brunskill Rowe,  
Robert Watt Stark.

*Course in Natural Science.*

Hortense Call,  
Adolph Hempel,  
Horatio Richmond Marsh,

Grace Lillian Moore,  
Mabel Stewart,  
William Kriebel Yeakel.

The following named graduates of former classes, having pursued the studies required therefor, are recommended by the Faculty for the second degrees designated:

Keturah Elizabeth Sim, B. L.....	Class of 1884.....	Degree of Master of Literature....
William David Pence, B. S.....	" 1886.....	Degree of Civil Engineer.....
Anna Shattuck Palmer, B. L.....	" 1891.....	Degree of Master of Literature....
Andrew Wallace Gates, B. S.....	" 1892.....	Degree of Civil Engineer.....
George Washington Seaman, B. S.....	" 1893.....	Degree of Mechanical Engineer....
Charles Frederick Hottes, B. S.....	" 1894.....	Degree of Master of Science.....
Grant Clark Miller, B. S.....	" 1894.....	Degree of Master of Architecture..
Robert Alvin Wood, B. S.....	" 1894.....	Degree of Mechanical Engineer....
Ola C Woolsey, B. L.....	" 1894.....	Degree of Master of Literature....

The University not having had authority to grant degrees before July 1, 1877, the Faculty recommends that degrees be conferred as follows upon persons graduated prior to that date:

CLASS OF 1872.

Henry A. Drewry, B. S. Jacob Norton Wharton, B. S.,	Reuben O. Wood, B. S.
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CLASS OF 1873.

Edgar L. Hill, B. S.	Samuel Houston Hook, B. L.
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CLASS OF 1874.

Herbert Eaton, B. S. Gregory Gabrielial, B. S.	William Watts, B. S. Walter Ward Wharry, B. S.
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CLASS OF 1875.

D. Elroy Barnard, B. S. Vantile William Coddington, B. S. Franklin P. Dobson, B. S. Burleigh Arthur Dunlap, B. S. Earnest Eaton, B. S. George N. Gridley, B. S. John Charles McCauley, B. L. James H. Parks, B. S. Emory Edward Patch, B. S.	William Clarence Pollock, B. S. Hector Hilgard Tyndale, B. L. Laura Morris Anderson, B. L. (Mrs. J. R. Greenhalgh) Israella Kate Kariher, B. L. (Mrs. Albert Eisner) Flora Lorena Kellogg, B. L. (Mrs. Hudson)
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CLASS OF 1876.

Edward Lull Ballou, B. S. William B. Chandler, B. S. James Frederic Drake, B. L. John D. Gill, B. L. Simeon T. Gore, B. S. Charles E. Gregory, B. L. Daniel S. Mackay, B. L. William A. Mackay, B. L.	Frank I. Mann, B. L. William F. Oliver, B. L. Frank M. Palmer, B. L. James Frederic Rhodes, B. L. Charles Weston, B. L. Thomas Thatcher Williams, B. L. Mattie Gray Holton, B. L. (Mrs. J. H. Krebs)
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## CLASS OF 1877.

Charles H. Barry, B. S.	Franklin Spence, B. S.
Charles Brush, B. S.	John M. Stayman, B. S.
William Buckingham, B. S.	Myron Jerome Wright, B. S.
Luther G. Clay, B. S.	Nettie Adams, B. L. (Mrs. W. B. Wilson)
Benjamin F. Crow, B. S.	Eva Bogardus, B. L. (Mrs. T. L. Price)
Richard D. Faulkner, B. L.	Ida Belle Falls, B. L.
Charles B. Gibson, B. S.	Emily C. Maxwell, B. L.
Hiram Gilkerson, B. S.	Martha Page, B. L.
John Gilkerson, B. S.	(Mrs. M. E. Whithan)
Allen G. Kennedy, B. S.	Emma Clarinda Piatt, B. L.
Edward V. Lewis, B. S.	(Mrs. J. C. Llewellyn)
Joseph Corson Llewellyn, M. S.	Velma Elethea Skinner, B. L.
John Fremont Moore, B. S.	(Mrs. Velma Skinner-Ward)
George Clark Rice, B. L.	Gertrude Switzer, B. L.
John James Seymour, B. S.	(Mrs. H. Peddicord)
Color L. Sim, B. S.	

## PROGRESS DURING THE YEAR.

A comparison of the catalogues shows an increase in numbers, of the corps of instructions, as follows: 1893-4, 63; 1894-5, 75.

The increase in total attendance is from 743 to 815. The increase in the University proper is from 552 to 609.

The following report of the work of the University, made by the committee of the senate appointed to visit state educational institutions, is submitted for your information:

## REPORT OF SENATE COMMITTEE TO VISIT STATE EDUCATIONAL INSTITUTIONS.

SPRINGFIELD, ILL., May 14, 1895.

*The Hon. Joseph B. Gill, President of the Senate and Gentlemen of the Senate.*

Your committee, by appointment of the senate to visit educational institutions, beg leave to report that, in the discharge of their duty, they have visited the University of Illinois, and beg leave to submit for your consideration the following:

The University of Illinois is situated at Urbana, Champaign county, Illinois, and opened its doors for students in 1868. From that time until the present, her growth has been gradual and her advance in the last few years has been more rapid than in any portion of her history, and the promise of future good is greater to-day than ever before.

The grounds of the University cover about seven hundred acres. A large part of this tract is beautifully laid out and is covered with magnificent shade trees. Upon the grounds are situated six principal buildings, viz.: University Hall, Machinery Hall, Chemical Laboratory, Natural History Hall, Military Hall, and the new Engineering Hall. In addition to those six buildings are a number of other small buildings for department uses by the University. In the University Hall are located the Art Gallery, Library, Museums of Natural History and of the Industrial Arts.

The University is divided into four colleges, viz.: Agriculture, Engineering, Science, and Literature and Arts. The work of the College of Agriculture is practical as well as scientific and technical. It purposes to give students such instruction as will properly fit and prepare them to become practical and successful farmers. In connection with this department is also the Experiment Station, which furnishes abundant opportunity for the practical demonstrations and experiments. We believe that this department alone is of great value to the State, and its aid in the advancement of agriculture, its thorough preparation of young men for this most important of all interests in this State, is worth all that it costs the State of Illinois to maintain the University. One of the needs of to-day among the great agricultural interests is more information, and this department furnishes it and is meeting a long felt want, and we believe will largely assist in bringing the farmers of Illinois up to that high standard of success that their profession so well deserves.

The College of Engineering comprises five departments, the Architectural Civil, Electrical, Mechanical, and Sanitary. In all of these departments there is great opportunity offered to the young man or young woman desiring a practical education, which alone furnishes that power so necessary to success. In all of these departments the young man and young woman have day by day practical experience in the distinctive lines in which they are engaged, thus not only furnishing them the theory in these several departments, but giving them a practical knowledge, which fits them much better to cope readily with competition when they go out into the active duties of life to maintain themselves. In addition to this, the physical labor required in these departments in the presence of the students, gives to manual labor a standing and a dignity that is worth a great deal to every young man and young woman.

The University is prepared to furnish and is furnishing to our young people a fine literary education, and, at the same time, fitting and preparing them to take a place at once as practical men and women in all of these departments of life, and it is with pleasure that your committee notes the enthusiasm and earnestness with which the teachers in all of these several departments engage in their work, and the interest and enthusiasm manifested by the students of the institution is also noticeable.

The Zoölogical Museum of the University possesses a large collection of valuable specimens which cannot be replaced by almost any amount of money. The same may be said of the Botanical and Geological Museums. The Agricultural Museum is also rich in specimens. The Museum of Industrial Arts contains a large collection of the raw materials of industry. The Art Gallery contains a large number of full size casts of celebrated statues, and a large number of other valuable works of art.

The library contains about 28,000 volumes, which together with the libraries of the Agricultural Experiment Station and the State Laboratory of Natural History, make over 35,000 volumes accessible to the students.

Your committee desire to call special attention to the fact that the valuable collections in all these museums, together with the library, are located, of necessity, in University Hall, which is the oldest building on the grounds, built without much reference to protection from fire; and your committee believe that there should be built upon the University grounds, a building of sufficient size and made as near as possible fire-proof, in which the library can be placed and which should be known as the Library Building, and also in which the collections of all these museums could be put and there safely kept; and your committee believe that this building should be furnished by the state at once. The building in which they are now located is in such a condition, that, if a fire was to break out, it would be impossible to preserve or save these valuable collections, and if they were destroyed they could not be replaced probably for a quarter of a century, if ever. We desire to call attention to another fact, that the chapel and a great many class rooms are located in this same building, and that there are at times from four to six hundred students probably reciting in that building and there is but one stairway leading from the fourth story in which are the society halls, and that in case of fire it would be almost impossible for the students to get out safely.

Your committee also call attention to the fact that the machinery in Machinery Hall is on the second floor of that building, and they are also informed, and from their investigation believe, that this building was not constructed with the idea of having such an amount of heavy machinery on the second floor, and that the machinery in said building on said second floor, together with the number of students that are at work with the machinery at times, is too heavy a strain upon the floor of said building. Your committee believe that a building should be furnished so that this machinery can be placed on a ground floor.

Your committee also note that the power house to furnish heat is so situated and in such a condition that it would appear to be impossible properly to heat the buildings. The electrical plant is also in a building where there are other departments. Your committee believe that all of the heating apparatus, and

the electrical plant should be consolidated in one building, so that in case of fire or explosion, there would be no danger to other buildings or to the lives of the students.

Your committee find that there is no sufficient gymnasium room for either the gentlemen or the ladies. The young men are permitted to use part of the Military Hall for that purpose, and the ladies are substantially without accommodations of this kind. We believe that there ought to be provided at the earliest possible date a good gymnasium, especially for the young ladies, together with bath rooms for all of the students.

While your committee believe that the very best work possible under all the circumstances is being done at the University, yet your committee believe that there are many things that should be added to the University to make its work complete and to make it rank with other universities in states not near so large or so able as our own. Therefore, your committee beg leave to make the following recommendations:

1st. They believe that the appearance of the grounds and the landscape view of the same could and would be materially improved if the trees on the grounds were trimmed to that height that you could see over the entire grounds from any part thereof.

2d. We believe there is a necessity for more room for the accommodation of the students as an assembly room, and also recitation rooms.

3d. We believe the old street railway track should be taken out of the grounds where it now is and that that street should be properly paved and that some old fences along the side of that street should also be removed.

4th. That a new building should be provided in which to place the library and all of the specimens in the several museums. That said building should be large enough to anticipate the future wants of the University.

5th. That every encouragement should be given to all of the experimental work done in the University, as your committee believe that it peculiarly fits young men and women for their special vocations in life. We believe that it is better to do such work in the presence of the students and have them do it while yet in school, than it is to theorize and talk about it in the class room.

6th. We believe also that every encouragement should be given to the University in extending its work in the agricultural department. That it should be furnished with all the facilities for carrying on a scientific examination and experiments relating to all of the industries of the state.

7th. We heartily approve of the system of allowing students the free choice of studies, thus enabling each student within certain lines to take such work as suits his or her tastes and business, and prepares them for their particular work in life.

In conclusion your committee believe that the foundations have been well laid for a great university, and that the people of this state should take sufficient pride in their University and assist it in every way possible to build upon this foundation, until it shall be a peer to any other institution in the United States and recognize no superior.

We believe that Illinois is entitled to a University to which her people will gladly lend their aid in every way, so as to make it a University that will send out into the world her sons and daughters strong physically, mentally, and morally, to meet and overcome successfully all obstacles in their pathway to success.

Your committee take great pleasure in most heartily recommending to this state and to the People of the State of Illinois, the work of Dr. Andrew S. Draper, the present President of the University, and congratulate all of the people upon his selection to this position. In him we believe the University has a man worthy and well qualified to carry on this great work of education.

His ripe experience and mature judgment in the management of the University will insure its success if the people give him that hearty support that he and the cause he so ably represents merit.

Most respectfully submitted,

ORVILLE F. BERRY,  
GEORGE D. ANTHONY,  
C. PORTER JOHNSON,

*Committee to Visit State Educational Institutions.*

The following report from the Inspecting Officer to the Inspector General of the United States Army, will show a very gratifying improvement in the military department:

MILITARY DEPARTMENT.

SPRINGFIELD, ILL., May 20, 1895.

*The Inspector General, United States Army.*

SIR: I have the honor to submit the following report of an inspection of the Military Department of the University of Illinois:

The Military Professor, Captain D. A. Brush, 17th Infantry, is a progressive and energetic officer of much experience. The result of his year's work proves him well fitted for the position.

The authorities are convinced of the good effect of military instruction on the students, support it by marked consideration in class standing, and uphold the Military Professor in the enforcement of discipline.

A rifle range, one of the best armories and drill halls in the State, ground adequate for close order drill, and such expenditures as are necessary, afford material support.

The corps is organized into a battalion of four companies, and band officers are uniformed as in the State service; band in dark blue blouse, trousers, and forage cap; all others wear a similar uniform of cadet gray. All were in uniform. The average age of the cadets is twenty years.

The review was followed by an inspection and battalion drill. All movements were executed with snap and precision. Officers seemed thoroughly conversant with their duties.

Of the total number of cadets (239), 13 were absent, 3 with and 10 without leave.

Arms and equipment are cared for by a janitor. The arms were in good condition; the leather parts of the equipment were scratched. The setup of the cadets and their steadiness during the exercises showed thorough instruction in the school of the soldier. The marching in line and column was excellent. The old guns being obsolete and the 3.2 in. rifles expected, no instruction has been given in the manual of the field piece. Flagging of messages by the signal squad was well done. Some instruction in target practice is given. Theoretical instruction is given in drill regulations and organization and tactics. Wagner's "Security and Information," and "Organization and Tactics" are the text books used. Lectures illustrative of the course of study are given by the instructor. All government property was serviceable and in good condition. The cadets' rifles are new.

The graduating class showed, by their answers, intelligent and practical application of the theoretical knowledge given.

The Military Department is in a healthy and growing condition. The benefits evidenced amply justify its continuance.

Woven cartridge belts should replace the leather waist belts. They are less expensive, more durable, more useful, and easily cared for.

Pieces lighter and more easily handled by cadets than the 3.2 in. rifles should be supplied for artillery instruction.



A cadet rifle of the magazine pattern should replace the obsolete ones now in use.

The drill ground is rather small for extended order drill. The lack of time and space for this and practical instruction in minor tactics, is a drawback not peculiar to this, but common to most colleges. To overcome it a summer encampment of the cadets of colleges in the same state is a desirable but hardly attainable goal.

Very respectfully, your obedient servant,

DAVID J. BAKER, JR.,  
1st Lieutenant 15th Infantry.

#### CATALOGUE AND ADVERTISING.

I respectfully recommend the appropriation of \$2,000 for the publication of the next annual catalogue and for other publications calculated to bring the University to the knowledge of the people of the state.

#### LECTURES.

I respectfully recommend the appropriation of the sum of \$1,000.00 for the purpose of meeting the expenses of a course of lectures upon special topics of interest in the work of the University, by persons of well known prominence in similar work elsewhere, such lectures to be delivered at the chapel of the University and to be free.

#### CURRENT UNIVERSITY PUBLICATIONS.

For several years the Board of Trustees has appropriated \$500.00 to assist in defraying the expenses of the *Illini*, a students' publication which has been sent to all the high schools of the state. This publication has reflected much credit upon the student body during the last year. In appearance it has ranked with any similar publication in the country. It has been partially devoted to the publication of papers of permanent educational value, prepared by members of the Faculty or by students, but more largely to items of University news and information. In the management of the *Illini* the University authorities have intentionally absolved themselves from responsibility. As far as we have been disposed to go in that direction has been to make sure that nothing was introduced into its columns which was calculated to reflect upon any University interest. It seems to me the time has come when we may advantageously change the University policy in this regard. To that end I recommend the appropriation of \$300.00 to the management of the *Illini*, upon condition that a copy of the paper be sent to each of the high schools of the state upon a list furnished from the Registrar's office, and not exceeding 400 in number. In view of a second recommendation which I shall make in this connection, I think it would be specially advantageous to the *Illini* if it should be published in less expensive form and should only attempt to cover fields of current University news.

I also recommend that the University begin with the fall term the publication of a magazine to be devoted almost exclusively to papers of permanent educational value prepared by persons connected with the University, and that the sum of \$800.00 be set apart for defraying the expenses of the same. During the last year we have had a considerable number of papers which were well deserving of publication and which have not found their way into print for lack of provision for the same. I feel confident that a publication of this character would not only stimulate all the departments of this University, but would reflect credit upon us abroad.

#### UNIVERSITY MILITARY BAND.

I have found continual annoyance during the year from the fact that members of the senior and junior classes, who had rendered service in the battalion during their freshman and sophomore years, and who were no longer

subject to military duty, objected to service in the band, although their services were highly necessary to its efficiency. It is needless to say that the military band is a very important element in our University life. I can readily see, moreover, that it is quite a tax upon students and that there is considerable ground for the feeling on their part that they should be excused from band service when they are no longer subject to military duty. I am informed that it would be satisfactory to a number of students of this class to continue their service in the band if their term fees were returned, and I therefore recommend that the term fees be hereafter returned to such students as may be approved by the professor of military science, who, though no longer subject to military duty, shall continue their service in the band, upon condition that they sign an agreement to be obedient to all orders of the constituted authorities of the University touching the military band, and that they remain in such service throughout the year up to and including the day of the annual commencement.

#### CORPS OF INSTRUCTION.

The time has come, it seems to me, when it is imperatively necessary for the Board of Trustees to take action defining the proper classification of the members of the instructional force, and prescribing the duties and prerogatives of the several classes. There has been no friction in the force during the year and we have no reason to anticipate any, but I think it would be a relief to all of the members if their prerogatives and duties were defined by action of the Board of Trustees.

Some changes are imminent in the force. Professor James Dowden Bruner has tendered his resignation. Miss Elizabeth Cutting Cooley (now Mrs. Bruner) has likewise tendered her resignation. Professor William J. Eckoff has tendered his resignation of the position of professor of pedagogy. These several resignations are herewith transmitted. Professor Edward Snyder, absent during the year on leave, and Assistant Professor James McLaren White, also absent during the year on leave, have indicated their readiness to resume work at the beginning of the next University year.

For the position of professor of pedagogy I respectfully recommend the appointment of Mr. Arnold Tompkins.

For the position in the department of Romance languages, made vacant by the resignation of Professor Bruner, I recommend the appointment of Mr. George D. Fairfield, with the title of Assistant Professor of Romance Languages.

I recommend the establishment of a department of Political Science, and the appointment thereto of Mr. Charles W. Tooke, with the title of Assistant Professor of Political Science.

I recommend the establishment of a department of Mediaeval History and recommend the appointment thereto of Mr. Frank Zinkeisen, with the title of Assistant Professor of History.

For the position of Director of Physical Culture I recommend the appointment of Mr. Henry H. Everett.

For the position of Director of Physical Culture for Women I recommend the appointment of Miss Ella H. Morrison.

I also recommend the appointment of Mr. George A. Huff as assistant director of the gymnasium and coach of the athletic teams. Mr. Huff will come to the service of the University for \$1,000.00 during the next year and the athletic teams are willing to defray one-half of the expense involved. The department of physical culture and athletics has so developed as to make this step advisable, and I think we are fortunate in being able to secure the services of so good an assistant as Mr. Huff has shown himself to be.

At the last meeting of the Board I was, by resolution, directed to ascertain for what expense it would be possible to establish a department of music in the University, and have given considerable attention to the matter. As the result of my investigation I learn that it is possible to establish such a depart-

ment upon a very satisfactory basis at an expense which will not exceed \$1,500.00 or \$1,600.00 per annum, and which is likely to be very much less than that. I respectfully recommend the appointment of Mr. Walter Howe Jones as director of the department of music to be established.

I also recommend the appointment of an instructor in vocal music.

I also recommend the appointment of Mr. William L. Steele to a special musical scholarship in the University. Mr. Steele is now a student in the University in his junior year. A most worthy man, an excellent student with unusual ability, he has been of considerable assistance to us in a musical way during the last two years. During that time he has led the military band. While he is much interested in University music, he feels that he cannot devote so much time to the matter without injury to his regular work, and I do not think it ought to be expected. He is willing to take two years in which to perform the work required in his senior year, and devote half of his time to general University music, for a compensation of \$300.00 a year. I think it would be a unique compliment to him and an excellent arrangement for the University to bestow upon him a special musical scholarship of the value of \$300.00 a year for the next two years.

Taking the foregoing recommendations into consideration and also some other changes in the corps of instruction, of which it is not necessary to speak here in detail, I recommend that the corps of instruction with titles and salaries for the next year be determined as in the schedule submitted herewith.

This schedule is made without any reference to the advisability of action by the Board of Trustees covering the general change of salaries for members of the corps of instruction or any classes thereof, but it is made with some special reference to what I conceive to be the special claims of individuals.

Beyond all this I am constrained to say that I think the best interests of the University call for the establishment of a course of Domestic Science, but I have not been able to see my way clear for any particular recommendation upon that subject as yet.

#### REORGANIZATION OF THE SHOPS.

It seems to me that the situation in the mechanical shops is decidedly unfortunate. There is a lack of system, plan, and neatness in the shops. The men in charge of the shops have been selected, I fear, without sufficient reference to educational interests. The work of the shops will lack practical results unless it is closely allied to educational interests. I think a policy should be pursued which will bring intellectual development and manual skill into more intimate relationship. It seems to me, also, that there is an unfortunate association of commercial interests in our shop practice. The present arrangement is not only unfortunate educationally, but I think it is unfortunate from a business standpoint. I am constrained to believe that it is costly to our educational work and far from economical for our business interests. I am unable to see why two wood shops should be maintained and think one of them should be abolished without delay, in the interest of good work as well as of economy of space and of instructors and foremen. Beyond all this it will be necessary to remove the heavy iron-working machinery placed upon the second floor of the mechanical building. It not only causes the building to vibrate, but leads to apprehension as to its safety. A special appropriation has just been made by the legislature to cover the expense of these changes, and, while we are making the changes which it seems to me are imperatively necessary, it seems to be a proper time to make changes which are desirable. I therefore recommend:

1. That a new shop one story high be erected on the east side of the avenue leading from University Hall to Military Hall directly south of the old railroad track, and that this shop run east and west with the head against the avenue.
2. That the iron-working machinery on the second floor of Machinery Hall be removed to this shop.

3. That the architectural wood shop be discontinued and the **machinery** and implements therein be moved to the second story of the present mechanical building, and that all the wood work in connection with the University be embraced within a single department to be carried on upon that floor.

4. That the parts of the mechanical engineering equipment now in the basement of the Chemical Laboratory be removed to Machinery Hall or to the new shop.

5. That a room be set apart in Machinery Hall for the use of the superintendent of building and grounds, who, it is hoped, will soon be appointed, to be used by him for carrying on carpentry, cabinet-making, or other work incidental to the needs of the construction and supply department of the University.

6. That the President divide the remaining space in Machinery Hall between the mechanical engineering department and the testing laboratory, according to their relative needs.

#### CARE OF BUILDINGS AND GROUNDS.

It seems clear to me that the time has come when it is necessary to establish a new department in aid of the proper administration of University affairs. I refer to a department having charge of University property. Nothing has caused me more annoyance during my service with the University than the very common neglect of University property which has been manifest. I do not mean to lay special censure upon any particular individual. The fact is that University buildings have been erected and grounds have been developed without any organization adequate to their care. One or two of the janitors seem to have had a fair conception of what good janitorial service is. The others are incapable of any such conception, and in my judgment, are altogether unfitted for the service which they are bound to render us. Buildings are not kept as clean and wholesome as they should be, and furnishings suffer severely because of continual neglect, or because what is done is done by persons who have no knowledge of what should be done and no adaptation to the service. Members of the corps of instruction and officers in administrative positions are continually put to serious annoyance because of the inefficiency of janitorial service.

Criticism may properly be made upon the care of the grounds also. The lawns have not been renewed where they have become run out. The trees need trimming higher up so that one can look across the campus when standing on the ground. When trees have been cut down the stumps have been left in the ground and always make an unsightly spot upon the lawn. Lawlessness is prevalent about University property to a degree which I never saw before, elsewhere, about public property. The people of the vicinage maraude upon our grounds and are impertinent when their depredations are resisted. All of the heavy stone-work for the cemetery at the south of the campus is drawn through the grounds, funeral processions frequently pass through the grounds, even military processions do this to the demoralization of University work. At the last Memorial Day exercises, by count, more than 7,000 persons passed through the grounds, paying no respect to lawns or shrubbery. Men rode their horses and drove their vehicles over the lawns and were displeased when the employes of the University endeavored to stop such proceedings. The daily labor which has been employed about the University has been very unsatisfactory for want of competent direction. I am constrained to say that sufficient money has been paid for this labor to have produced very appreciable results, but that such results have not been attained because of lack of organization and necessary direction. There has been a lack of responsibility and accountability about the matter.

From these remarks I desire especially to except Mr. A. B. Barker, who has for 20 years been in charge of University Hall and has always been as faithful and devoted as it is possible for a man to be. He has been a faithful servant of the University, entitled to the respect of its officers. His advancing years render it impracticable for him to carry on the service now required of him, but I trust that there may be a readjustment which will retain him for certain duties to which he is exceptionally adapted.

In view of the foregoing, I recommend the following:

1. That a Superintendent of Buildings and Grounds be appointed who shall have general charge of all janitors and other persons employed to perform labor in the care of buildings and grounds, and personal property about the University; that this officer be authorized to appoint all janitors and workmen necessary to be appointed, and that he also have authority to discharge any janitor or workman, in his department, for cause, at any time.
2. That Mr. A. B. Baker be relieved from service as janitor of University Hall, but that he be retained in the service of the University, and allowed the use of the rooms now occupied by him in the basement of University Hall, and required to show visitors about the University buildings and grounds, and perform such other light service as may be required of him by this office.
3. That the Superintendent of Buildings and Grounds have an office in University Hall, and have immediate charge of that building, and that no other janitor for that building be appointed.
4. That when a suitable force of janitors shall have been appointed, application be made to the authorities of the cities of Urbana and Champaign, to commission the members of said force as special policemen, to serve as such about the University buildings and grounds, and without any expense to said cities.
5. That the Superintendent of Buildings and Grounds be directed to prohibit any driving through the grounds, except by light pleasure carriages, to require all bicycles to keep off the walks and lawns, and to require all persons to keep off the lawns of the campus between the University buildings.

REQUESTS FOR OPERATING EXPENSES, AND EXTENSION OF APPARATUS AND EQUIPMENT.

The following requests have been made for funds for operating expenses and extension of apparatus and equipment for the University departments:

Oratorical contest.....	\$100 00
Art and design.....	359 00
Psychology laboratory.....	1,003 00
Architecture.....	2,183 00
Mechanical engineering.....	1,900 00
"                    ".....	2,000 00
"                    ".....	500 00
"                    ".....	400 00
"                    ".....	100 00
Steam heating.....	75 00
"                    ".....	200 00
"                    ".....	250 00
"                    ".....	200 00
"                    ".....	40 00
Civil engineering.....	1,870 00
Electrical engineering.....	10,000 00
Municipal and sanitary engineering.....	300 00
Theoretical and applied mechanics.....	5,350 00
Zoölogy.....	530 00
Chemistry.....	6,500 00
Applied chemistry.....	1,750 00
Geology.....	2,500 00
Physiology.....	2,735 00
Botany and horticulture.....	300 00
Agriculture.....	4,180 00
Total.....	\$45,325 00

The aggregate of these requests for extension of equipment is more than \$45,000.00. I am obliged to say, and I say it with regret, that I cannot escape the feeling that many of these requests are made without sufficient discriminating judgment about the necessity or the advisability of such expenditures. Some are made without indicating in what way or for what specific purpose it is proposed to expend the funds which have been appropriated. I think that the heads of departments are bound to exercise sound judgment as to what expenditures are really necessary to meet the needs of their departments, and I also think that they are bound to take into consideration the possibility of meeting the requests they make.

I respectfully recommend the following appropriations for the purpose of extending equipment and meeting the ordinary expenses of departments during the ensuing year:

Library .....	\$200 00
Art and design .....	250 00
Psychological laboratory .....	300 00
Steam heating .....	500 00
Zoölogy .....	500 00
Chemistry .....	500 00
Applied chemistry .....	500 00
Geology .....	800 00
Physiology .....	500 00
Botany and horticulture .....	300 00
Agriculture .....	2,000 00
Physical culture .....	600 00
School of music .....	250 00
Total .....	\$7,200 00

I also recommend that the sum of \$10,000.00 be appropriated the present year from specific appropriations made for the purpose, to be expended in extending the equipment of the College of Engineering, the same to be used in the several departments of the college in ways which shall be certified by the dean thereof as the most advisable.

I recommend that the specific appropriations made by the legislature, for addition to apparatus and appliances (\$3,000.00), materials for shop practice (\$1,500.00), increase of scientific cabinets and collections (\$1,000.00), completing the fitting and furnishing of Engineering Hall (\$5,000.00), improvement in the Chemical Laboratory (\$5,000.00), laboratory of vegetable physiology (\$2,000.00), equipment and materials for fire protection (\$2,000.00), building and equipment for work of Biological Experiment Station on the Illinois river (\$2,500.00), and operating expenses of said Station (\$1,500.00), paving streets and laying walks (\$9,300.00), be appropriated to the several purposes for which they have been made, upon the condition and understanding that no purchases of additional equipment shall be made and no agreements entered into, except upon a statement showing what it is desired to purchase, where it may be obtained, and at what probable cost, and, briefly, the reasons for the proposed expenditure, and not until this statement shall have the approval of the President as to the advisability of the purchase, and the approval of the Business Agent as to the reasonableness of the price to be paid.

It should also be distinctly understood that the appropriation of \$5,000.00 for improvement in the Chemical Laboratory must be in a large measure devoted to the work of surveying the waters of the state upon a comprehensive plan, pursuant to promises made to the legislature.

I present herewith the report of the Agricultural Experiment Station, and recommend that appropriations be made and authority to conduct experiments be granted in accordance therewith.

#### EXPERIMENT STATION REPORT.

URBANA, ILLINOIS, June 10, 1895.

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

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

*Paper A* is a list of warrants drawn, Nos. 172 to 265, inclusive, for the quarter ending March 31, 1895, and is accompanied with vouchers for the same for audit.

*Paper B* is a statement of expenditures for the quarter ending March 31, 1895.

*Paper C* is a statement of appropriations, expenditures, and balances for the quarter ending June 30, 1895.

*Paper D* is a statement of appropriations asked for the current quarter and for the next quarter.

## PAPER A—STATEMENT OF EXPENDITURES FOR QUARTER ENDING MARCH 31, 1895.

Board expense .....	\$29 83
Books and publications .....	31 44
Botanical apparatus .....	9 24
Bulletins .....	671 06
Chemical apparatus .....	75 33
Fertilizers .....	21 50
Fuel and lights .....	100 00
Incidentals .....	1 10
Printing, stationery, and postage .....	28 54
Salaries .....	1,820 00
Seeds and trees .....	39 26
Tools and supplies .....	249 97
Wages .....	768 07
Sundry—	
Wood durability experiment .....	58 41
Total .....	\$3,903 75

## PAPER C—STATEMENT OF APPROPRIATIONS, EXPENDITURES AND BALANCES QUARTER ENDING JUNE 30, 1895.

	Appropriated.	Expended.	Balances.
Board expense .....	\$40 00		\$40 00
Books and publications .....	50 00		50 00
Botanical apparatus .....	10 00		10 00
Bulletins .....	300 00	\$448 61	
Chemical apparatus .....	50 00	45 70	4 30
Fuel and lights .....	100 00		100 00
Incidentals .....	25 00		25 00
Printing, stationery, and postage .....	25 00		25 00
Salaries .....	1,960 90	1,106 65	853 35
Seeds and trees .....	30 00	23 37	6 63
Tools and supplies .....	200 00	54 87	145 13
Wages .....	1,250 00	600 85	649 15
Wood durability experiment .....	50 00		50 00
Total .....	\$4,090 00	\$2,280 05	\$1,958 56

## PAPER D—ESTIMATES.

*Quarter ending June 30, 1895.*

From farm fund—	
Dairy stock and fittings .....	\$50 00
Horses .....	250 00
Irrigation experiment .....	25 00
Milk wagon .....	142 50
Repairs on house .....	35 00
Wages .....	400 00
Total .....	\$902 50

*Quarter ending September 30, 1895.*

From general fund—	
Board expense .....	\$40 00
Books and publications .....	50 00
Botanical apparatus .....	60 00
Buildings and repairs .....	25 00
Bulletins .....	150 00
Chemical apparatus .....	275 00
Fuel and lights .....	60 00
Incidentals .....	25 00
Printing, stationery, and postage .....	25 00
Salaries .....	1,660 00
Seeds and trees .....	25 00
Tools and supplies .....	150 00
Wood durability experiment .....	50 00
Wages .....	1,250 00
Total .....	\$3,845 00

PAPER D—ESTIMATES—*Concluded.*

From farm fund—	
Wages .....	\$400 00
Irrigation experiment.....	40 00
Purchase of pigs .....	20 00
Total.....	\$460 00

The Board of Direction asks authority to undertake the following experiments:

1. Establishing varieties of red clover by selection.
2. Improvement of Indian corn by selection and careful breeding.
3. Companion and catch crops for Indian corn.
4. Methods of Pasteurizing cream and milk.

The Board of Trustees is asked to assign funds of the Experiment Station according to estimates made in *Paper D*, and also to authorize the President and Secretary of the Board of Direction to expend, as the best interests of the Station may require, any unexpended balances of the United States fund.

The Board of Direction will continue for the rest of the year until March 31, 1896, its present staff at salaries now paid.

Respectfully submitted,

T. J. BURRILL,

*President Board of Direction.*

I respectfully recommend that \$30.00 be appropriated for the purchase of a bust of Senator Justin S. Morrill, pursuant to an arrangement which has been entered into by the different institutions deriving revenues from the Morrill acts.

Respectfully submitted,

A. S. DRAPER,

*President.*

Authority was given to the President to confer degrees as recommended by the Faculty. (See page 87.)

\$2,000.00 was appropriated for the publication of catalogues, circulars, announcements, etc.

The question of appropriating \$1,000.00 for maintaining a course of lectures was referred to the Committee on Instruction.

The recommendations with regard to the *Illini* and a University quarterly were referred to the Committee on Publication.

The recommendations with regard to the military band and the scholarship in music were referred to the Committee on Students' Welfare.

The recommendations with regard to corps of instruction and the reorganization of the shops, so far as it concerns the work of instruction, were referred to the Committee on Instruction.

The recommendations with regard to building a new shop and the removal of machinery to it; also with regard to the care of buildings and grounds were referred to the Committee on Buildings and Grounds.

Mr. Morrison, from the Finance Committee, presented a bond submitted by C. W. Spalding, Treasurer, and moved its approval. After



some discussion, on motion of Mr. Bullard, further consideration of the bond was postponed until Wednesday afternoon.

The Board then adjourned to meet at 2 o'clock Wednesday afternoon.

#### SESSION OF WEDNESDAY AFTERNOON.

At this session the same members were present as on Tuesday.

The bond of the Treasurer was further considered and was approved on the following vote: Yeas, Messrs. Armstrong, Bullard, Graham, McLean, Morrison, Raymond, and Mrs. Smith; nays, Mr. Morgan and Mrs. Flower.

The Committee on Instruction reported verbally recommending the appointment of Arnold Tompkins, A.M., as professor of pedagogy at a salary of \$1,800.00 a year.

That George D. Fairfield, A. M., be appointed to the position in the department of Romance languages made vacant by the resignation of Professor Bruner, with the title of Assistant Professor of Romance Languages, and at a salary of \$1,000.00 a year.

That there be established a department of political science and constitutional history and law, and that Chas. W. Tooke, Ph. D., be appointed Assistant Professor of Political Science, at a salary of \$1,000.00 a year.

That there be established a department of mediaeval history, and that Frank Zinkeisen, Ph. D., be appointed Assistant Professor of History, at a salary of \$1,000.00 a year.

That Mr. Henry H. Everett be appointed Director of Physical Training, to receive a salary for the first year of \$1,200.00, for the second year \$1,400.00, and for the third year \$1,600.00, if his services shall be satisfactory.

That the term of service of each of the above named persons begin September 1, 1895.

That Miss Ella H. Morrison be appointed Director of Physical Culture for Women, and to have charge of the woman's gymnasium, at a salary of \$700.00 for ten months, term of service to begin September 1, 1895.

That Mr. George A Huff be appointed Assistant Director of the Gymnasium and Coach for Athletic Teams, to be paid by the University \$500.00 for ten months, service beginning September 1, 1895.

That there be established a School of Music; and that Mr. Walter Howe Jones be appointed Assistant Professor of Music; that he receive a salary of \$700.00 a year and one-half of the music fees in excess of \$700.00, term of service to begin September 1, 1895.

That there be an assistant in vocal music at a salary of \$500.00 for ten months, beginning September 1, 1895, such assistant to be appointed by President Draper.

The report of the committee was adopted, and the appointments were made as therein recommended.

The Committee on Instruction presented the following, which was adopted:

PLAN OF GOVERNMENT OF THE INSTRUCTIONAL FORCE OF THE UNIVERSITY OF ILLINOIS.

1. All persons who give instruction in any department of the University shall constitute the Corps of Instruction.

2. The members of the Corps of Instruction shall be classified as follows: (a) the President; (b) the Dean of the General Faculty, who shall likewise be Vice-President; (c) the deans of the separate colleges; (d) professors; (e) associate professors; (f) assistant professors; (g) instructors; (h) assistants; (i) fellows. The Librarian and the Director of the Gymnasium shall rank as assistant professors.

3. The President, the Dean of the General Faculty, and the deans of the separate colleges shall constitute the Council of Administration.

4. The President, the Dean of the General Faculty, the deans of the separate colleges, the professors, the associate professors, the assistant professors, and all heads of departments, shall constitute the General Faculty.

5. The members of the instructional force in each college shall constitute the college faculty of that college.

6. The President shall be the executive head of the University. It shall be his duty to secure efficiency in all the departments, orderly and economical administration and healthful development in all the affairs of the University. He is hereby clothed with all authority needful to that end, and for his acts he is answerable to the Board of Trustees alone.

7. The Dean of the General Faculty shall have general oversight of the instructional departments of the University, and more particular supervision of the Graduate School. He shall also be vice-president and exercise the functions of the President in the absence of that officer.

8. The dean of each College shall be the executive officer of that College and shall be responsible to the President for carrying out all University policy and for the execution of all established rules or special directions given by any superior authority. The dean shall make an annual report to the President on or before the first day of June in each year, in which he shall fully treat of the work of his College. He may make report or advance suggestions at any time and shall report to the President whenever requested to do so.

9. The members of the Council of Administration, other than the President, shall be associated with that officer in an advisory capacity touching the discharge of administrative duties. The Council shall have exclusive jurisdiction over all matters of discipline. It shall not exercise general legislative functions, but when any matter arises which has not been provided for by rule or common usage or legislative action of the General Faculty, and which can not be conveniently laid over till the next meeting of the General Faculty, it may act upon the same according to its discretion, and its action in such case shall not be subject to reversal by the Faculty. It shall be the duty of the secretary of the Council to report to the Faculty, or to particular officers, all items of its action when necessary to efficient administration.

10. The General Faculty shall exercise general legislative functions touching the education policy of the University or any particular matter incidental thereto.

11. The faculty of each College may exercise legislative functions touching any matter appertaining exclusively to the internal work of that College and the progress of students therein. It shall not, however, have authority to take away from any student any University privilege, nor shall it do anything trenching upon the executive duties of the dean. It must be understood that the College organization is only for convenience within University circles, and that no College shall take action not well supported by rule or

usage for which the general officer of the University may be called upon to answer. All matters of general policy, or matters involving the interests of outside parties, must be determined by general University authority.

12. A professor shall be the head of a department and, subject to superior authority as to policy and course of procedure, he shall be responsible for the quality and efficient progress of the work of that department, and all subordinates in the department shall conform to his views touching department policy, while they exercise their own originality and genius in carrying it out. The ranking member in a department staff which is without a professor at its head shall, for the time being, be the head of the department. Subordinates in a department, and particularly associate professors, shall be entitled to offer to the head professor thereof such suggestions as they may see fit concerning the general policy of the department, but the final determination of that policy shall rest with the head thereof and with the authorities superior to him.

13. Any member of the Corps of Instruction shall report to any superior authority upon request. All communications to superior authorities, whether made pursuant to request or voluntarily offered, shall, unless otherwise specially directed, be transmitted through all intermediary officers, to the end that they may have knowledge thereof and an opportunity to comment thereupon if they think advisable.

The following recommendations coming from the Council of Administration were presented by the President:

#### AMENDMENTS AND ADDITIONS TO THE RULES FOR GOVERNMENT OF STUDENTS.

Members of the Graduate School shall not be required to pay fees for studies approved by the Council of Administration as leading to an advanced degree; but the usual term fee shall be charged all students taking any undergraduate work.

A fee of five dollars shall be charged for entrance to classes in physical culture to all those connected with the University who do not otherwise pay fees.

Persons connected with the University, other than regular students, shall, if they attend any University classes, register and take class cards. Any such person shall also pay a fee of \$5.00 if the study pursued be not one accepted in his case for a second degree.

Amend the third paragraph, on page 5 of the "Rules for the Government of Students," edition of 1893, to read as follows: "A student receiving a condition in any one study shall take a re-examination at a time appointed by the instructor within one month from the beginning of the following term, unless given a longer time by the President of the University."

A student failing at any second examination, or not taking the re-examination at the appointed time, may not have a further examination without permission of the President, and then only upon the payment of a fee of \$5.00. This rule to apply to entrance examinations also.

For all special examinations the student must take out in advance, a permit from the Registrar.

Three dollars shall be paid as a fee by those who seek extra entrance examinations in the Preparatory School.

The two days preceding the beginning of instruction at the opening of terms shall be registration days. On one of these days each student must register, in person, at the Registrar's office, and must, before registering, file with the Registrar an approved list of studies for the ensuing term.

Students will not be permitted to classes before registration.

Subsequent to registration days lists of studies will not be approved and registration will not be permitted except upon the authority of the President.

No unmatriculated student shall be entered as a conditioned Freshman unless enrolled in at least two University subjects, and unless all entrance conditions can be made up during the year; and no student having entrance conditions may pursue University studies more than one year.

That the time of students may be fully occupied, each person is required to to pursue studies, exclusive of military and physical culture studies, aggregating not less than three nor more than three and three-fifths credits; except that students in courses requiring more than such number of studies in any term shall not be limited as to such required studies by this rule; and, excepting further, that a student whose standing in each study of the preceding term has been "passed with credit," may take for the term studies aggregating not more than four credits. Students may be permitted to take more or less than the amount of work described above only on a three-fourths vote of the members of the College faculty present at a formal meeting.

A term's credit in every subject shall be upon the basis of work requiring, for the average student, fifteen hours a week in outside preparation and class, and laboratory exercises combined. Fractional credits shall require such part of fifteen hours a week as the fractional credit indicates.

Candidates for advanced standing, not from other colleges or universities, may secure such standing on examination only. In the case of freshmen students seeking advanced standing on the basis of their preparatory work, such standing shall be granted after satisfactory examination only.

Those who present for entrance to the Preparatory School, satisfactory grades for not less than one year's work in an accredited school of the University, shall be excused from examination.

Hereafter the following members of the University battalion shall be allowed one credit for Military 2, whenever they are members of either of the following organizations, viz: The University foot-ball eleven, the University base-ball nine, or the University track team, and that in addition to the regular members of the foot-ball eleven and base-ball nine above mentioned, three substitutes be included in each organization and allowed the same credit as the regular members. This credit should be allowed but once and be given for the term in which the organization is engaged in contests with others; that is, for foot-ball, credit for fall term be allowed; for base-ball and track team, credit for spring term. Where a member of the battalion is a member of more than one organization, say foot-ball and base-ball, or track team, he may elect in which term he will take his credit, but in no case can he receive more than one. Also, that not more than fifteen credits be given to members of the track team as a whole.

The system of marking in the University shall be as follows:

The grades shall be "failed," "conditioned," "passed," "passed with credit." The passing mark shall be 60.

#### CHANGES IN ARCHITECTURAL DEPARTMENT.

That one year of free-hand drawing, in addition to the year of this work prescribed be substituted for the year of shop practice now required for graduation in the course in architecture.

That one year of Mechanical Engineering 1 be substituted for the year of shop practice now required for graduation from the course in architectural engineering.

That the architectural shops, with machines, plant and materials, be transferred to such departments as may be ordered by the Board of Trustees, and dropped from the inventory of the department of architecture and architectural engineering. This is recommended also by the dean of the College of Engineering and the faculty of that College.

#### CIRCULAR.

The issue of a circular is recommended to give information concerning the changes and additions in courses, new departures in the work of instruction, and improvements about the University.

## FELLOWSHIPS.

The Council of Administration further recommends that fellowships for the ensuing year be assigned as follows:

In the College of Literature and Arts, to Miss Marion Thompson, of the present graduating class.

In the College of Engineering, to Mr. Peter Junkersfeld, also of the present graduating class.

## ACCREDITED SCHOOLS.

With regard to accredited schools the Council of Administration recommends:

That the life of all certificates to accredited schools be three years.

That the time limit for recognizing the validity of high school certificates of graduation be abolished.

A motion having been made to approve and adopt these recommendations, Mr. Armstrong moved to amend by making the passing mark 75 instead of 60. This amendment was lost on the following vote: Yeas, Dr. Smith, Mrs. Flower, Mr. Armstrong; nays, Messrs. Morgan, Morrison, Raymond, McLean, and Bullard.

The recommendations were adopted after an amendment giving freshmen in the architectural course the option of taking either architectural shop practice or free-hand drawing.

The Committee on Instruction also recommended the appropriation of \$1,000.00 for a course of lectures, and this report was referred to the Committee on Finance.

The Committee further recommended that a Department of Household Economics be established as soon practicable.

These recommendations were adopted.

The Committee further reported recommending that the position of foreman in the architectural shops be abolished.

This was referred to the Committee on Buildings and Grounds.

The Committee on Instruction further reported recommending that the deans of the General Faculty and the several colleges be re-appointed for the ensuing year—that Professor Burrill be Dean of the General Faculty; Professor Kinley, Dean of the College of Literature and Arts; Professor Ricker, Dean of the College of Engineering; Professor Forbes, Dean of the College of Science, and Professor Davenport, Dean of the College of Agriculture.

The report was adopted.

The Committee on Instruction also presented a report concerning recommendations with regard to changes of titles and salaries of members of the Corps of Instruction for the ensuing year.

The report was adopted so far as it related to titles, but the matter of salaries was referred to the Committee on Finance. (For the complete report of both committees see page 110.)

The Committee on Students' Welfare made the following report which was adopted:

URBANA, ILL., June 12, 1895.

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

GENTLEMEN: Your Committee on Students' Welfare has considered the suggestion of President Draper concerning returning fees to such students as may continue in the military band by appointment of the Professor of Military Science after they are no longer subject to military duty, and recommends that an amount equal to the term fees be paid them at the end of the year.

Your committee also recommends that a special musical scholarship of \$300 a year for two years be given to the present leader of the band, Mr. William L. Steele, as suggested by President Draper,

Respectfully submitted,

JULIA HOLMES SMITH,

LUCY L. FLOWER,

RICHARD P. MORGAN,

*Committee on Students' Welfare.*

It was voted that after Sept. 1st, next, the pay of the secretary in the President's office should be \$60 a month; that the pay of the secretary in the Registrar's office, and the stenographer in the office of the College of Engineering, \$50 a month, and that the Secretary of the Experiment Station should be authorized to pay his stenographer \$50 a month, this last to be paid from the funds of the Experiment Station.

The Board then adjourned to meet at 9 o'clock Thursday morning.

#### SESSION OF THURSDAY MORNING.

The same members were present as on Wednesday, except Mrs. Smith.

A communication received from the Rock River Farmers' Club was referred to the Farm Committee.

The following resolution offered by Mr. McLean was adopted:

*Resolved*, That all reports of standing and special committees touching matters submitted to them for investigation or action shall be made in writing, giving such details as the subject matter of such reports requires.

The four resolutions which follow were successively presented and adopted:

*Resolved*, That Mr. A. B. Baker be relieved of his duties as janitor at University Hall and that, in view of his long and faithful service and the esteem in which he is held by the Board, he be retained in its service for the purpose of conducting visitors about the University buildings and grounds, and performing such other light service as may be requested of him by the President; and that for such services he be given the use of the quarters now occupied by him in the basement of University Hall, and also the sum of \$500 a year.

*Resolved*, That there be appointed a superintendent of buildings and grounds at an annual salary not exceeding \$1,200 a year, whose duty it shall be to have general charge of all University building and grounds. All the janitors employed by the University shall be under his supervision and direction, and for cause may be discharged by him at any time. Temporary workmen and helpers which are necessary at times may be employed by him at rates of compensation approved by the Business Agent. In the discharge of his duties he shall act under the general direction of the Buildings and Grounds Committee and, in its absence, the President of the University.

*Resolved*, That when the Superintendent of Buildings and Grounds has been appointed and the force of janitors connected with the University shall have been so reorganized as to give promise of efficiency, application be made by the President to the authorities of the cities of Urbana and Champaign for the appointment of the Superintendent of Buildings and Grounds and the members of his force as special police officers, to the end that they may have power to arrest idlers, trespassers, marauders, disturbers of the peace, and any persons found on or about University property or menacing the quiet and security of the University; and that when invested with such authority such Superintendent and janitors shall be held accountable for the good order about all buildings and grounds and the safe keeping of all University property.

*Resolved*, That hereafter no advertising signs be allowed upon University property; that no trespassing be allowed upon the campus between the principal buildings of the University; that all riders of bicycles be required to keep upon the roadway and never allowed upon the walks; that no vehicles, loaded or otherwise, be allowed to enter the carriage ways of the University unless the same are for light pleasure driving alone, or are on business connected with the University; and that the Superintendent of Buildings and Grounds be authorized to put up suitable notices or take any proper steps necessary to secure the complete enforcement of this resolution.

The Committee on Buildings and Grounds reported verbally through its chairman, Mr. Morgan, that it had looked into the claim of Messrs. Yeager & Schultz for the remission of the penalty imposed by the action of the Board taken December 6, 1894 (see page 35) and had agreed to the remission of the full amount of \$1,900.00, less \$125.00 paid the inspector on account of the delay in completing the contract.

On motion of Mrs. Flower, the action of the committee was approved.

On motion of Mr. McLean, the balance, \$1,775.00 was ordered paid, any part of same which could not be met from the state appropriation for the erection of Engineering Hall after the amount for electric wiring had been paid, to be paid from the \$5,000.00 appropriated at the last session of the legislature for completing the fitting and furnishing of Engineering Hall.

The Farm Committee made the following report:

URBANA, ILL., June 13, 1895.

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

GENTLEMEN: Your Farm Committee recommends the adoption of the following resolution:

WHEREAS, A communication has been received by the members of this Board from the president of the Rock River Farmers' Club relative to the manner in which the University of Illinois has been conducted in the past and its plans for the future concerning the agricultural department, and

WHEREAS, We believe that said Club is laboring under a misapprehension as to what is doing in the department named, and as we also believe that this institution was organized for the benefit of the agricultural interests and the mechanical arts of the State of Illinois, and further believe that it should subserve the interests named; therefore be it

*Resolved*, That this Board hereby reaffirms or declares that it has been in the past, and shall be in the future, its earnest desire and aim to increase, if possible, and extend the usefulness and benefits of this department to every section of the state.

*Resolved*, That we ask the hearty coöperation of all clubs and associations interested in agricultural pursuits and request that they keep more in touch

with this Board, and communicate with it freely concerning all matters with which they, together with this institution, are virtually interested, as it is the sincere desire of this Board to make the agricultural department of the University as efficient and useful to the people of this state as the projectors of the University designed and hopefully anticipated.

*Resolved*, That we cordially invite the members of the agricultural clubs and associations to visit the University and familiarize themselves with its condition and its work.

Respectfully submitted,

ISAAC S. RAYMOND,  
ALEXANDER MCLEAN,  
N. B. MORRISON,

*Farm Committee.*

The Executive Committee of the Board of Trustees submitted the following report:

URBANA, ILLINOIS, June 13, 1895.

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

GENTLEMEN: Your Executive Committee reports that at a meeting held in Springfield, April 3, 1895, at which all members of the Committee were present, an appropriation of \$200.00 for incidental expenses, and \$200.00 for Board expenses, as made.

Respectfully submitted,

N. W. GRAHAM,  
N. B. MORRISON,  
ALEXANDER MCLEAN,

*Executive Committee.*

The report from the Board of Direction of the Agricultural Experiment Station was then taken up and it was voted that appropriations be made as requested in the report, and that authority be given to undertake the experiments therein named.

Professor Eugene Davenport was appointed a delegate to attend the meeting of the Association of American Agricultural Colleges and Experiment Stations to be held in Denver July next, and it was ordered that his expenses be paid from University funds. There was also appropriated \$10.00 for payment of the University's membership fee in the association.

An appropriation of \$30.00 was made for the purchase of a bust of Senator Justin S. Morrill.

The question of offering prizes for oratorical contests was referred to the Committee on Instruction.

The appointment of needed assistants not already provided for was referred to President Draper and the Executive Committee with power to act.

On motion of Mr. Bullard the paving of Green street, laying walks, and payment of the sewer tax was referred to the committee on Buildings and Grounds with power to act; and the Committee was authorized to expend the sum of \$9,300.00, appropriated by the legislature at its last session for this purpose.

Mr. Morrison, from the Committee on Finance, presented President Draper's bill of expenses, amounting to \$82.72; also the bill of Professor H. J. Waters for traveling expenses, amounting to \$34.10, and the bill of Miss Adeline W. Rowley for traveling expenses, \$9.30, and they were ordered paid.



The special committee appointed to draft resolutions concerning Mr. F. M. McKay's services as a member of the Board of Trustees, made the following report, which was adopted:

URBANA, ILLINOIS, June 13, 1895.

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

GENTLEMEN:—Your special committee offers the following report with regard to Mr. F. M. McKay:

Mr. F. M. McKay was appointed a member of the Board of Trustees by Governor Oglesby in 1884, and at the end of that term was elected by the people of the state for a term of six years. During his ten years' connection with the Board he has been a regular attendant upon its meetings, entering into all its affairs with energy and enthusiasm. He came into the Board with a high ideal of what the University should do for the people of the state in the cause of higher education, and maintained throughout his official relation with the Board earnest and successful prosecution of his views as to the work of the University. As Chairman of the Committee on Instruction much credit is due him in raising the standard of instruction and broadening the scope of the University courses. In view of these facts we recommend the passage of the following resolution:

*Resolved*, That in recognition of the distinguished service which Mr. F. M. McKay has rendered to the University and the cause of higher education, as a Trustee of the University of Illinois, we respectfully recommend that the Faculty of the University present his name at the commencement of 1896 for the degree of master of arts.

J. E. ARMSTRONG,

*Chairman of Committee.*

The Committees on Instruction and on Finance made the following report with regard to the positions and salaries of the members of the corps of instruction for the ensuing year.

For convenience of reference both those instructors in relation to whom changes have been made, and those remaining the same as heretofore, are included in the list.

URBANA, ILLINOIS, June 13, 1895.

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

GENTLEMEN:—Your Committees on Instruction and on Finance respectfully submit the following schedule of titles and salaries for the ensuing year:

Thomas Jonathan Burrill, Ph. D., LL. D., Vice President, Dean of the General Faculty, and Professor of Botany and Horticulture.....	\$2,700 00
Samuel Walker Shattuck, C. E., Professor of Mathematics.....	2,000 00
Edward Snyder, A. M., Professor of the German Language and Literature.....	2,000 00
Nathan Clifford Rieker, M. Arch., Dean of the College of Engineering and Professor of Architecture.....	2,300 00
Ira Osborn Baker, C. E., Professor of Civil Engineering.....	2,200 00
Stephen Alfred Forbes, Ph. D., Dean of the College of Science and Professor of Zoölogy.....	1,000 00
Charles Wesley Rolfe, M. S., Professor of Geology.....	2,100 00
Donald McIntosh, V. S., Professor of Veterinary Science.....	1,800 00
Arthur Newell Talbot, C. E., Professor of Municipal and Sanitary Engineering.....	2,100 00
Arthur William Palmer, Sc. D., Professor of Chemistry.....	2,100 00
Frank Forrest Frederick, Professor of Art and Design.....	1,900 00
Samuel Wilson Parr, M. S., Professor of Applied Chemistry.....	2,100 00
Herbert Jewett Barton, A. M., Professor of the Latin Language and Literature.....	2,000 00
Charles Melville Moss, Ph. D., Professor of the Greek Language and Literature.....	2,100 00
Daniel Kilham Dodge, Ph. D., Professor of the English Language and Literature.....	2,000 00
Lester Paige Breckenridge, Ph. B., Professor of Mechanical Engineering and Superintendent of Heating Plant.....	2,250 00
Daniel William Shea, Ph. D., Professor of Physics.....	2,200 00
David Kinley, Ph. D., Dean of the College of Literature and Arts, Professor of Political Economy and Social Science.....	2,250 00
Daniel Harmon Brush, Captain 17th Infantry, U. S. A., Professor of Military Science and Tactics.....	

Eugene Davenport, M. S., Dean of the College of Agriculture and Professor of Animal Husbandry.....	\$1,000 00
Edgar J Townsend, Ph. M., Associate Professor of Mathematics.....	1,650 00
George William Myers, A. M., Associate Professor of Mathematics (on leave).....	
Katharine Merrill, A. B., Assistant Professor of the English Language and Literature.....	1,300 00
William Otterbein Krohn, Ph. D., Assistant Professor of Psychology.....	1,800 00
James McLaren White, B. S., Assistant Professor of Architecture.....	1,500 00
Henry Elijah Summers, B. S., Associate Professor of Human Physiology and Vertebrate Anatomy.....	1,650 00
William Humphrey VanDervoort, M. E., Assistant Professor of Mechanical Engineering.....	1,650 00
William David Pence, B. S., Assistant Professor of Civil Engineering.....	1,400 00
Evarts Boutelle Green, Ph. D., Assistant Professor of History.....	1,600 00
Harry Sands Grindley, Sc. D., Assistant Professor of Chemistry.....	1,050 00
Thomas Arkle Clark, B. L., Assistant Professor of Rhetoric.....	1,300 00
Herman S Platt, A. M., Assistant Professor of Romance Languages.....	1,000 00
Bernard Victor Swenson, B. S., Assistant Professor of Electrical Engineering.....	1,100 00
Arthur Hill Daniels, Ph. D., Assistant Professor of Philosophy.....	1,200 00

## INSTRUCTORS AND ASSISTANTS.

Cyrus Daniel McLane, B. S., Instructor in Architecture.....	1,100 00
Cyril Balfour Clark, Foreman in Machine Shops.....	800 00
William Emanuel Sandford, Ph. G., Instructor in Pharmacy.....	800 00
James David Phillips, B. S., Instructor in General Engineering Drawing.....	850 00
Charles Alexander Gunn, B. S., Assistant in Architecture.....	850 00
Alfred Holmes White, A. B., Assistant in Chemistry.....	800 00
William Esty, B. S., Instructor in Electrical Engineering.....	1,000 00
Albert Root Curtiss, Foreman of Wood Shop.....	800 00
Frank Smith, A. M., Instructor in Zoology.....	1,200 00
Lorin William Peabody, B. S., Assistant in Testing Laboratory.....	750 00
George Washington McCluer, M. S., Assistant in Horticulture.....	180 00
Henry Jones, Foreman in Blacksmith Shop.....	600 00
Ralph Parsons Smith, Ph. B., Instructor in German.....	1,200 00
Peter Mogensen, B. S., Assistant in Mathematics.....	800 00
Helen Eliza Butterfield, M. L., Instructor in Rhetoric.....	750 00
Jeremiah George Mosier, B. S., Assistant in Geology.....	700 00
Robert Clarke Vial, B. S., Assistant in Engineering.....	700 00
Alton Cyrel Burnham, B. S., Instructor in Mechanical Engineering.....	800 00
Fred Anson Sager, B. S., Instructor in Physics.....	850 00
Edward John Lake, B. S., Assistant in Art and Design.....	600 00
Charles Frederick Hottes, B. S., Assistant in Botany.....	600 00

## PREPARATORY SCHOOL.

Edward Gardnier Howe, Principal.....	1,800 00
Nathan Austin Weston, B. S., Instructor in Mathematics and History.....	900 00
Lillie Adelle Clendenin, Instructor in English.....	650 00

## REGISTRAR.

William Low Pillsbury, A. M.....	1,400 00
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## LIBRARIAN.

Percy Favor Bicknell, A. M.....	1,550 00
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Respectfully submitted,

J. E. ARMSTRONG,  
JULIA HOLMES SMITH,  
S. A. BULLARD,

*Committee on Instruction.*

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

*Finance Committee.*

The report was adopted on motion of Mr. Morgan.

The payment of \$20.00 a month to a messenger in the President's office was authorized.

The Treasurer's report was submitted and referred to the Finance Committee.

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,  
MAY 31 1895.

1895.	<i>Dr.</i>		
February 28	To balance .....	\$480 00	\$92,566 64
March 11	Principal, contract No. 47, M. Hubka .....	46 45	
" 11	Interest, contract No. 47, M. Hubka .....	8,000 00	
" 13	Transfer of eight Kankakee bonds to endowment fund..	2,630 29	
" 29	From S. W. Shattuck on general fund .....	3,750 00	
April 5	Quarterly Experiment station warrant .....	213 00	
" 10	Mansfield coupons, due January 1, 1895 .....	354 75	
" 26	From W. L. Pillsbury, on farm account .....	1,000 00	
" 27	From S. W. Shattuck, on general fund .....	600 00	
May 2	Payment of Bond county bond No. 3 .....	78 00	
" 2	" coupons .....	1,000 00	
" 3	" Sangamon county bonds Nos. 1 and 2 .....	300 00	
" 3	" coupons .....	325 00	
" 3	Cass county coupons .....	500 00	
" 6	Shelby county bond No. 5 .....	300 00	
" 6	" coupons .....	06	
" 6	Error in payment of warrant No. 166 (1894-1895) .....	1,117 06	
" 8	From S. W. Shattuck on general fund .....	390 00	
" 11	Balance Pittsfield coupons, due July 1, 1894 .....	2,072 52	
" 28	From S. W. Shattuck on general fund .....	365 78	
" 31	Interest to date on endowment fund at 4 per cent. ....	182 62	
" 31	all other funds at 2½ per cent. ....		\$23,705 53
			<u>\$116,272 17</u>
1895.	<i>Cr.</i>		
May 31	By amount paid out of general fund as per list of war- rants attached thereto .....	\$16,962 00	
" 31	By amount paid out of State appropriations as per list of warrants attached hereto .....	20,375 80	
" 31	By amount paid out of State Laboratory of Natural His- tory as per list of warrants attached hereto .....	2,527 02	
" 31	By amount paid out of U. S. fund as per list of warrants attached hereto .....	8,116 18	
" 31	By amount paid out of U. S. Experiment Station fund as per list of warrants attached hereto .....	4,417 83	
" 31	By amount paid out of farm fund account as per list of warrants attached hereto .....	724 77	
" 31	By amount paid out of endowment fund for Kankakee bonds .....	8,000 00	\$61,123 60
	Balances—		
	State appropriations:		
	Current fund .....	\$4,037 94	
	Engineering Hall .....	5,034 06	
	Laboratory of Natural History .....	924 56	
	Other appropriations .....	678 56	
	General fund .....	5,158 32	
	U. S. fund .....	110 49	
	Endowment fund .....	36,244 90	
	U. S. Experiment Station fund .....	2,727 67	
	U. S. Experiment Station farm fund .....	232 07	
			55,148 57
			<u>\$116,272 17</u>

The committee is instructed to submit a design for the building, with its recommendations thereupon, at a meeting of the Board to be called at its request, at such time as it may fix.

The committee is hereby authorized to offer premiums to the amount of \$1,200.00 for designs for the library building, under such rules and regulations as may be adopted by the committee; and it is further authorized to offer to the successful competitor the usual fees for service as architect and superintendent.

The following report from Professor Forbes, director of the State Laboratory of Natural History was received:

URBANA, ILLINOIS, June 10, 1895.

*Mr. Nelson W. Graham, President Board of Trustees,*

DEAR SIR: I beg to report concerning appropriations for the State Laboratory of Natural History, that the bill covering our expenditures for the next two years has passed the House and is on third reading in the Senate, where it is practically certain to pass this week, probably on Tuesday. It carries a total amount of \$19,800.00, which, in addition to the \$5,500.00 specifically appropriated to the Biological Station in the University bill, makes \$25,300.00 for the expenses of investigation work under my direction, as compared with \$14,600.00 last session, being an increase of \$10,700.00.

The present bill contains, in addition to the usual items, an allowance of \$1,500 per annum for the expenses of an investigation of the contagious diseases of insects, and of \$1,500 per annum for one half the expenses of the biological station at Havana—the other half of these expenses having been provided for in the University bill. I have consequently to ask the reappointment of my present office force, and the appointments additional of Mr. Chas. A. Kofoid, as Superintendent of the Illinois State Biological Experiment Station at a salary of \$1,200 per annum; of Mr. B. M. Duggar as Botanical Assistant at the State Laboratory of Natural History, at a salary of \$1,000 per annum, and of Mr. Adolph Hempel as Zoological Assistant of the State Laboratory, at a salary of \$720 per annum.

The complete list is as follows:

B. M. Duggar, Botanical Assistant .....	\$1,000 00
H. C. Forbes, Business Agent and Librarian .....	1,000 00
C. A. Hart, Curator of Collections .....	750 00
Adolph Hempel, Zoological Assistant .....	720 00
W. G. Johnson, Assistant Entomologist .....	1,200 00
C. A. Kofoid, Superintendent Biological Station .....	1,200 00
Frank Smith, Assistant Zoologist .....	200 00
Mary J. Snyder, Secretary .....	750 00

Miss Lydia M. Hart, whom I have under continuous engagement as artist, receives a compensation by the hour, varying according to the nature of her work.

Mr. Smith's salary from the State Laboratory I have placed at \$200 instead of \$400 as last year. According to present arrangements for my work, much more of his time will go to the University department of instruction than last year, and it seems to me right that the University should pay him \$1,200 accordingly, instead of the \$1,000 now received from that source. Mr. Johnson, on the other hand, whose salary has been in part chargeable to the University assignment of \$1,800 for various purposes, made to my department in March, 1894, will be paid according to the above scheme wholly from the State Laboratory appropriations.

I think it very desirable that before I finish my plans for the equipment of the Biological Station I make a trip to Newport, New York City, and Cold Spring Harbor, and perhaps to some other places in the east for the purpose of examining apparatus and methods of equipment provided for similar work elsewhere, and I ask the authority of the Trustees to make this trip at the expense of the appropriation for the equipment of the Station.

Mr. Morrison, chairman of the Finance Committee, reported verbally approving appropriations in accordance with the recommendation of the President (see page 99), as follows:

Library .....	\$200 00
Art and design .....	250 00
Psychological laboratory.....	300 00
Steam heating.....	500 00
Zoölogy.....	500 00
Chemistry.....	500 00
Applied chemistry.....	500 00
Geology.....	800 00
Physiology.....	500 00
Botany and horticulture.....	300 00
Agriculture.....	2,000 00
Physical culture.....	600 00
School of music.....	250 00
College of Engineering.....	10,000 00

These sums to be taken from the specific appropriations made by the legislature, so far as proper.

The report was approved and appropriations made as recommended.

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

WHEREAS, The Board at this session has by resolution adopted a plan looking to the appointment of a Superintendent of Buildings and Grounds, and properly policing the buildings and property of the University, therefore be it

*Resolved*, That the President of the University, the chairman of the Committee on Buildings and Grounds, and the Business Agent, be appointed a committee to provide a plan for carrying out the business contemplated by the action of the Board relative to the appointment of a superintendent of the buildings and grounds, and to report at the next meeting of the Board.

A claim made by Robinson & Burr, of Champaign, was referred to the Committee on Buildings and Grounds.

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

#### SESSION OF THURSDAY AFTERNOON.

The Board met pursuant to adjournment, the same members being present as in the morning.

It was voted that when the Board adjourned it should adjourn to meet at 9 o'clock a. m., June 27, 1895, at the Palmer House, Chicago.

The following resolution was offered by Mr. Bullard, and was adopted:

WHEREAS, The state has appropriated \$150,000.00 for a new library building; and

WHEREAS, This amount of money will be in the treasury of the University after July first, next, therefore be it

*Resolved*, That the Committee on Buildings and Grounds be, and hereby is, instructed to enter at once on the consideration of the erection of this building.

I have to suggest for the name of our station on the Illinois River, that of the University of Illinois Biological Experiment Station, and ask your approval of this title.

Respectfully yours,

S. A. FORBES, *Director of Laboratory.*

The recommendations of the report as to appointments and salaries were approved, and the appointments were made.

Professor Forbes was authorized to make a trip for the purpose of examining other biological stations, and it was voted that the expenses of such trip should be paid from the appropriations for the equipment of the Station.

The station on the Illinois River was given the name of the University of Illinois Biological Experiment Station, as requested.

Appropriations of funds to the State Laboratory of Natural History were made as follows, for the quarter beginning July 1, 1895:

For field work, office, and incidental expenses .....	\$375 00
For library .....	250 00
For salaries and assistance .....	912 50
For bulletins .....	125 00
For illustration of report of State Entomologist .....	62 50
For investigation of contagious diseases of insects .....	375 00
For equipment of the Biological Station .....	2,500 00
For expenses of the Biological Station .....	375 00
For expenses of Biological Station, from appropriation to the University .....	375 00

On motion of Mr. McLean, an assignment of a sufficient amount of funds was made to pay the taxes on Minnesota lands.

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

*Resolved*, That the President and Secretary be directed to draw upon the Auditor of Public Accounts such orders 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.

*Resolved*, That the Treasurer of the Board of Trustees of the University of Illinois be, and is, hereby authorized to receive and receipt for all moneys, and to endorse 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.

An appropriation of \$1,000.00 for a lecture course was made on approval of the Finance Committee.

An appropriation of \$25.00 was made for the purchase of material for fences on the south farm.

By request of Mr. Graham, Mr. McLean occupied the chair for the rest of the session.

On motion of Mr. Morgan, the recommendation of President Draper with regard to the reorganization of the shops (see page 96) was approved.

On motion of Mr. Armstrong, the President was requested to have prepared a sketch plan of the University grounds, so as to show the relative position of the buildings and the walks.

The following resolution, offered by Mr. Bullard, was adopted:

*Resolved*, That the Committee on Buildings and Grounds is hereby instructed to have prepared drawings, specifications, etc., for the new buildings and improvements provided for by the present legislature; and that the Committee is hereby authorized to let the contracts for the construction of the same.

This does not apply to the library building otherwise provided for, and this work shall be done on advice and consultation with the President and members of the Faculty interested in the several buildings.

The matter of the reorganization of the agricultural department was taken up and, after discussion, further consideration was deferred till the next meeting of the Board.

A resolution, offered by Mr. Morgan, with reference to the purchase of a sprinkler, was referred to the Finance Committee, to report at the next meeting.

On motion of Mr. Morgan, it was voted that the Committee on Buildings and Grounds be instructed to ascertain and report at the next meeting of the Board for how much the S. W.  $\frac{1}{4}$ , 21-19-9, E. 3d P. M., can be sold.

Professor Shattuck, the Business Agent, presented his report.

#### BUSINESS AGENT'S REPORT.

URBANA, ILLINOIS, June 11, 1895.

*Nelson W. Graham, President of the Board of Trustees, University of Illinois,*

SIR: I have the honor to hand you herewith the financial statements due from me at this time:

*Paper A*, a showing of the current appropriations from March 1, to June 1, 1895.

*Paper B*, the condition of the State appropriations, June 1, 1895.

*Paper C*, the same for the U. S. fund.

*Paper D*, a list of vouchers presented for audit, being 501 to 1,150.

*Paper E*, an estimate of receipts and expenses for the year ending September 1, 1896.

*Paper F*, an estimate for the three months ending September 1, 1895.

The Board is requested to appropriate the \$31,854.20 given in this paper for the expenses of the three months for the purposes named.

## PAPER A—CURRENT APPROPRIATIONS.

March 13, 1895.	Appropriated.	Receipts appropriated.	Expended.	Balance.
Board expenses.....	\$600 00	.....	\$458 11	\$141 89
Salaries for instruction { Current.....	23,844 00	.....	{ 11,952 81	924 72
and for President { U. S. Fund.....			{ 4,982 66	
{ State.....			{ 5,989 81	
Salaries for services.....	3,100 00	.....	3,094 60	5 40
Buildings and grounds.....	200 00	7 50	51 51	155 99
Fuel and lights.....	2,400 00	137 54	911 26	1,726 28
Stationery and printing.....	1,200 00	.....	385 59	814 41
Preparatory School.....	.....	1,001 50	1,271 57	.....
Mechanical Department.....	250 00	393 58	664 76	.....
Architectural.....	.....	916 82	621 77	295 05
Horticultural.....	50 00	17 80	49 00	18 80
Military.....	50 00	.....	7 48	42 52
Laboratory.....	200 00	322 36	273 86	248 50
Library and apparatus.....	50 00	.....	16 23	33 77
Incidentals.....	400 00	.....	435 50	.....
<i>Sundries.</i>				
Water supply.....	125 00	.....	.....	125 00
Furniture and fixtures.....	100 00	.....	44 85	55 15
Heating apparatus.....	200 00	.....	39 35	180 65
Advertising.....	157 85	.....	87 06	60 82
Biological Station.....	727 18	.....	280 93	446 53
Art department.....	72 18	.....	14 35	57 83
Treasurer's expenses.....	112 69	.....	112 69	.....
Accredited schools.....	122 94	.....	122 80	14
<i>Illini</i> .....	228 58	.....	228 56	02
<i>The Technograph</i> .....	100 00	.....	100 00	.....
Gymnasium.....	15 44	.....	25	15 19
Publication of exercises.....	297 75	.....	297 75	.....
Publication of Trustees' address.....	206 92	.....	149 45	57 47
Summer school.....	934 66	.....	30 64	904 02
South farm.....	200 00	.....	.....	200 00
Music fees.....	.....	84 00	.....	84 00

## PAPER B—STATE APPROPRIATIONS.

March 13, 1895.	Received.	Expended.	Balance.	Assigned.
Closed out.....	\$103,012 33	\$103,012 33	.....	.....
Cabinets.....	1,000 00	953 01	\$46 99	\$46 99
Furnishing and heating Nat. Hist. Hall.....	6,000 00	5,582 61	417 39	417 39
Engineering building.....	160,000 00	155,021 54	4,978 46	4,978 46
Applied mechanics.....	472 00	193 36	278 64	278 64
Civil engineering.....	233 00	188 30	44 70	44 70
Psychology.....	200 00	200 00	.....	.....
Botany.....	450 00	274 48	175 52	175 52
Library.....	10,000 00	9,479 33	520 67	520 67
Zoölogy.....	1,200 00	1,143 24	56 76	56 76
Geology.....	500 00	460 60	39 40	39 40
Buildings and grounds.....	2,100 00	1,867 92	232 08	232 08
Mechanical engineering.....	4,000 00	3,407 21	592 79	592 79
Municipal and sanitary engineering.....	50 00	47 77	2 23	2 23
Salaries for instruction.....	5,983 81	5,983 81	.....	.....
Geology cases.....	300 00	286 00	14 00	14 00
Pedagogy.....	150 00	120 86	29 14	29 14
Greek.....	150 00	89 43	60 57	60 57
Woman's gymnasium.....	300 00	98 11	201 89	201 89
Shop practice.....	300 00	300 00	.....	.....
Total.....	\$296,401 14	\$288,709 91	\$7,691 23	\$7,691 23
Illinois State Laboratory of Natural History...	\$15,313 26	\$15,127 92	\$185 34	\$185 34



## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1893.</i>				
Before reported on.....	\$17,750 00	\$17,750 00		
Agricultural lectures.....	226 06	226 06		
Salaries for instruction.....	23 94	23 94		
Total.....	\$18,000 00	\$18,000 00		
<i>Year ending June 30, 1894.</i>				
Before reported on.....	\$18,500 00	\$18,500 00		
Architecture.....	500 00	470 03	\$29 97	\$29 97
Total.....	\$19,000 00	\$18,970 03	\$29 97	\$29 97
<i>Year ending June 30, 1895.</i>				
Salaries for instruction.....	\$18,865 00	\$18,865 00		
Testing laboratory.....	135 00	\$134 48	\$0 52	\$0 52
Electrical Engineering.....	1,000 00	1,000 00		
Total.....	\$20,000 00	\$19,999 48	\$0 52	\$0 52

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

*Paper I* is a communication from Yeager & Schultz, requesting a payment of \$1,775, as due them on contract.

I must draw the attention of the Board to the fact that there will be a balance in the state appropriation of only \$580.97 to pay this account, after paying out the other contract, as estimated by the architect.

In this connection I present *Paper K*, an estimate for repairs of the roof of Engineering Hall.

Respectfully submitted,

S. W. SHATTUCK,  
*Business Agent.*

The list of warrants with vouchers was referred to the Finance Committee.

Appropriations were made as follows in accordance with recommendations of the Business Agent:

Sundry balances— <i>Paper A</i> .....	\$1,669 20
Board expenses.....	500 00
Salaries for instruction and President.....	20,000 00
Salaries for services.....	2,000 00
Buildings and grounds.....	600 00
Fuel and lights.....	2,000 00
Stationery, printing, and catalogue.....	1,500 00
Mechanical, architectural, horticultural, and military departments.....	500 00
Laboratories.....	1,000 00
Library and apparatus.....	50 00
Incidentals.....	400 00
Heating apparatus.....	500 00
Furniture and fixtures.....	300 00
Military scholarships.....	285 00
Commencement.....	200 00
Minnesota lands.....	100 00
Water supply.....	250 00
Total.....	\$31,854 20

An appropriation of \$100 was made to be used as might be needed in making repairs on the roof of Engineering Hall.

The Committee on Buildings and Grounds was instructed to cause some modification of the window sills in the third story of Engineering Hall, so as to prevent the rain drip from defacing and injuring the building.

The Board adjourned.

N. W. GRAHAM,

W. L. PILLSBURY,

*Secretary.*

*President.*

ADJOURNED SESSION, CHICAGO, JUNE 27, 1895.

The Board of Trustees of the University of Illinois met, pursuant to adjournment, at 9 o'clock a. m., June 27, 1895, at the Palmer House, in Chicago. The members present when the Board was called to order were Messrs. Bullard, Graham, McLean, Morgan, Morrison, Raymond, Dr. Julia Holmes Smith, and Mrs. Flower; Mr. Armstrong came in a little later; those absent were Governor Altgeld and Messrs. Judy and Inglis.

Mr. Morgan, chairman of the Committee on Buildings and Grounds, stated that the Committee had not yet sent out a call for designs because it was not deemed advisable to do this till the site of the library had been fixed and some other preliminaries determined.

A communication from the Illinois Bee Keepers' Association, presented by President Draper, was, on motion of Mr. McLean, referred to Professor Davenport, Dean of the College of Agriculture, for report at the next meeting of the Board.

A communication from Mr. G. W. Parker, asking to be appointed superintendent of buildings and grounds, was referred to a special committee appointed at the last meeting, to consider and report upon the duties of a superintendent.

A communication from Professor Davenport with regard to expenditures upon the house occupied by him, was referred to the Committee on Buildings and Grounds with power to act.

Dr. J. W. Scott, Secretary of the State Board of Health, by invitation conferred with the Board at some length with regard to a vaccine farm which the University is to establish, in accordance with an act recently passed by the legislature, and also with regard to the University's conducting for the Board of Health some examinations of candidates for admission to medical schools in this state.

The following resolutions were adopted:

*Resolved*, That funds be set apart as follows, from the special appropriation of \$5,000 for changes in the Chemical Laboratory, which was intended to cover the expense of carrying on a systematic survey of the waters of the state:

For the salary of a chemist in charge, for ten months, beginning September 1, 1895.....	\$600 00
For preparing room.....	350 00
For furniture, including two desks fitted with gas and water supply.....	400 00
For apparatus of permanent character.....	500 00
For apparatus of perishable character.....	500 00
For chemicals.....	100 00
For contingent expenses, printing, expressage, etc.....	300 00
Total.....	\$2,750 00

*Resolved*, That when waters are analyzed for private parties, said parties be required to pay the expense of carriage to and from the University.

*Resolved*, That when waters produced outside of the state are examined for persons who have a commercial and business interest to be promoted thereby, a charge covering the examination shall be made therefor, the amount of the charge to be determined by the Business Agent, and the moneys received to be paid into the treasury and a separate account kept thereof.

*Resolved*, That the professor of chemistry proceed to make a systematic survey of the waters of the rivers and lakes of the state.

*Resolved*, That the State Board of Health be notified that the University will respond to its requests for an analysis of waters when questions of health are involved.

*Resolved*, That the work be undertaken from and after September 1, 1895.

*Resolved*, That the Committee on Buildings and Grounds be, and hereby is, authorized to expend not more than \$1,000 from the special appropriation above named, in making changes in the Chemical Laboratory.

The following resolution was adopted:

*Resolved*, That all persons connected with the University be notified that when an application is made by any outside party for any service which the University can render, they shall not say whether the University will or will not undertake to render the service, or upon what terms it can be undertaken, but that all such matters shall be referred to the President of the University and the Business Agent, with power to act in each case as may to them seem wise.

On motion of Mrs. Flower, it was voted to increase Professor Forbes's salary \$250 a year, the increase to be paid from the funds of the State Laboratory of Natural History.

Mr. Morgan stated that he had had a conference with Professor Forbes concerning the Biological Station at Havana, and that Professor Forbes desires, inasmuch as the appropriation for the structure and equipment for the station was only half what was asked for, to use the appropriation in the construction of a boat which can be used as the headquarters for the Station and can be readily moved to different points on the river. He asked, in behalf of the Committee, instructions from the Board relative to the matter.

The following resolution was adopted:

*Resolved*, That as the appropriation for the establishment of a Biological Station on the Illinois river is but half the amount estimated to be necessary

and applied for, the Committee on Buildings and Grounds be, and hereby is, authorized and instructed to expend, in its discretion, the amount appropriated in furtherance of the purposes intended.

A communication from Professors Talbot and Breckenridge, asking that a water main be put in from Wright street to Machinery Hall, was referred to the Committee on Buildings and Grounds with power to act.

President Draper reported that, acting under authority given him by the Board, he had appointed Miss Elinor Ellsworth assistant in vocal music, at a salary of \$500 for ten months, beginning September 1, 1895, with the understanding that all fees received from students in vocal music shall be paid into the treasury until such fees shall aggregate \$500, and if they exceed that amount one-half of the excess shall be paid to Miss Ellsworth and the other half into the treasury.

The Committee on Publication offered the following resolution relative to the matter referred to it at the last meeting of the Board, and the resolution was adopted:

*Resolved*, That the sum of \$800 be appropriated for the publication, in magazine form, at such intervals as the Faculty may think advisable, of original papers of educational and scientific value prepared by persons connected with the University; and that a further sum of \$500 be appropriated for aiding the publication of the *Illini*, upon assurance that the mechanical appearance of the same shall be continued as desirable as at present. And that 400 copies of the paper be distributed through the mails weekly, without further cost, as directed by the President of the University.

President Draper presented the following:

*To the Board of Trustees:*

I respectfully recommend changes in the instructional force as follows:

1. That Alton Cyrel Burnham be transferred from being instructor in mechanical engineering to be instructor in mathematics at the salary already assigned, viz., \$800.

2. That Robert Alvin Wood, fellow in mechanical engineering last year, be appointed instructor in mechanical engineering, in the place of Mr. Burnham, at \$800 for ten months.

3. That an additional instructor in mechanical engineering be appointed by the Executive Committee, at \$75 a month, for ten months.

4. That a foreman in the moulding shop be appointed by the Executive Committee, at a salary of \$50 a month, for not more than nine months.

5. That the salary of William Esty, instructor in electrical engineering, be advanced from \$1,000 to \$1,050.

6. That an additional instructor in physics be appointed by the Executive Committee, at \$75 a month, for ten months.

7. That Milo Smith Ketchum be appointed assistant in civil engineering, at \$70 a month, for ten months.

8. That Charles N. Cole be appointed assistant in the preparatory school, at \$75 a month, for ten months.

9. That an additional assistant in the preparatory department be appointed by the Executive Committee, at \$75 a month, for ten months.

I also recommend that the salary of Ferdinand John Foote, mechanic in the electrical engineering department, be advanced from \$60 to \$75 per

month, and that the salary of M. F. Lindsey, storekeeper in the chemistry department, and the salary of I. H. Allen, storekeeper in the electrical engineering department, be advanced each from \$30 to \$35 a month.

Respectfully submitted,

A. S. DRAPER,

*President.*

Transfers, appointments, and additions to salaries were made in accordance with the recommendations of the President, in the foregoing paper, to take effect September 1, 1895.

The following communication was received from a committee of the Illinois State Board of Health:

CHICAGO, ILL., June 27, 1895.

*To the Trustees of the Illinois State University.*

GENTLEMEN: At a meeting of the Illinois State Board of Health, held in the city of Chicago, June 25, 1895, the committee on the administration of the medical practice act, reported the following:

Your committee would recommend, that in case satisfactory arrangements can be made with the Trustees of the University of Illinois, all applicants for matriculation in medical colleges of whom an examination is required, be examined by and present certificates from the Faculty of that institution as a condition of matriculation.

The committee was instructed to confer with the Trustees of the University of Illinois and request them to coöperate with the State Board of Health in the manner above indicated.

In view of this action, the committee would respectfully request that your Board take such action at your present meeting.

Very respectfully,

B. M. GRIFFITH, M. D.,  
JOHN A. VINCENT, M. D.,  
OSCAR O. BAINES, M. D.,

*Committee.*

In relation to this matter presented by the State Board of Health, Mr. McLean offered the following preamble and resolution, which were adopted:

WHEREAS, This Board deems the matter referred to in the foregoing communication from the State Board of Health, of great importance to the medical profession of the State of Illinois, therefore be it

*Resolved*, That this Board grants the request of said committee and instructs the Faculty of the University to conduct the proposed examinations, the matter being in charge of the President of the University and the Deans, who are directed to report a plan for said examinations, and suggestions in relation thereto to this Board at its next meeting.

The Board then took a recess to meet at 2:30 p. m.

When the Board convened after recess, President Graham presented a communication from the Urbana and Champaign Electric Street Railway Company, asking further consideration of its request, formerly presented, that the company be permitted to extend its railway line south from the terminus of Wright street across the University farm to the road running east and west between the University grounds and the cemetery.

On motion of Mr. Morgan, the request of the railway company for permission to make such extension across University lands was denied.

The special committee appointed at the last meeting of the Board, to consider and report upon the duties of the Superintendent of Buildings and Grounds, made the following report:

CHICAGO, ILL., June 27, 1894.

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

GENTLEMEN: Your special committee begs leave to offer the following resolutions:

*Resolved*, That the Superintendent of Buildings and Grounds be authorized to appoint janitors and assistants for the several buildings, for as many months in the year as he shall deem necessary, as follows:

Assistant at University Hall.....	\$25 00 per month.
Assistant at the closets.....	25 00 "
Janitor at Chemical Laboratory.....	30 00 "
Janitor at Engineering Hall.....	40 00 "
Janitor at Natural History Hall.....	40 00 "
Janitor at the Mechanical Shops.....	30 00 "
Janitor at Military Hall.....	30 00 "

*Resolved*, That the Superintendent may also employ additional workmen by the day, or student help by the month, for needed service in the care of buildings and grounds, as may be necessary.

*Resolved*, That the Superintendent may discharge any employé in his department at any time, for cause or when there is no work for the employé, and that he make no agreement which will preclude a discontinuance of the services of any such employé at any time.

*Resolved*, That the Superintendent, at the end of each month, file with the Business Agent, a report containing an itemized statement of the expenses of his department during the preceding month, and any recommendations as to future proceedings which he may deem advisable.

Respectfully submitted,

A. S. DRAPER,  
R. P. MORGAN,  
S. W. SHATTUCK,

*Committee.*

The report of the committee was adopted on motion of Dr. Smith.

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

*Resolved*, That hereafter all persons connected with the steam heating department shall be employed or dismissed by the President of the University, and the professor in charge of the mechanical engineering department.

Mr. Bullard presented a proposition, with regard to advertising, from Mr. P. K. McMinn, of Springfield; the proposition was declined on motion of Dr. Smith.

On motion of Mr. Armstrong, the Executive Committee was directed to appoint a Superintendent of Buildings and Grounds.

On motion of Mr. Raymond, the Finance Committee was directed to take a sufficient bond of the Business Agent, in amount not less than \$15,000.

The following resolution was adopted:

*Resolved*, That the Chairman of the Farm Committee, Dr. Burrill and the President of the University, be appointed a committee with power to establish a vaccine farm and laboratory; that so far as practicable, the Professor of Veterinary Science be charged with the care of the same, and his salary

be paid in part from the special appropriation made by the establishment of said farm by the legislature; that the committee determine the amounts to be charged for the product of the laboratory, and that the sums so received be paid into the treasury and a separate account be kept thereof.

Upon recommendation of the Faculty, the Board of Trustees granted authority to the President to confer upon Mr. Isaac S. Raymond the degree of Master of Literature.

A proposition from the Twin City Telephone Company, presented by Mr. F. D. Rugg, was referred to the Finance Committee with power to act.

Mr. Bullard presented the following resolutions and moved their adoption:

*Resolved*, That the new library building be located in a southwesterly direction from University Hall, placing the building so that its west front may be, as nearly as practicable, opposite the east end of Daniel street, in the city of Champaign.

*Resolved*, That the building shall be made with fireproof construction in the part or parts where books and valuable articles or papers shall be housed, and of slow burning construction in all other parts.

*Resolved*, That in the opinion of the Board the new library building should be constructed with stone on the exterior.

It was decided to consider the resolutions separately.

The first resolution was adopted, on motion of Mr. Armstrong, by the following vote: Yeas, Messrs. Armstrong, Bullard, Graham, Morrison, Raymond, Dr. Smith, and Mrs. Flower; nays, Messrs. McLean and Morgan.

Mr. Morrison moved to amend the second resolution to the effect that the building should be entirely of fire-proof construction.

Pending the consideration of this amendment, the Board adjourned to meet at 9 o'clock Friday morning.

#### SESSION OF FRIDAY.

When the Board convened, pursuant to adjournment, the same members were present as on Thursday, excepting Mrs. Flower.

Mr. Morgan presented a claim from Messrs. Robinson & Burr for \$200.00 on account of deductions made from the contract price on the heating apparatus in Natural History Hall, and on his motion the claim was rejected.

The consideration of Mr. Morrison's amendment, which had been interrupted by adjournment, was then resumed, and the amendment was lost by the following vote: Yeas, Messrs. Morrison, Morgan, and Dr. Smith; nays, Messrs. Armstrong, Bullard, Raymond and McLean.

The resolution was then adopted by the following vote: Yeas, Messrs. Armstrong, Bullard, Graham, McLean, and Raymond; nays, Messrs. Morgan, Morrison, and Dr. Smith.

Mr. L. J. Highland, representing the Illinois Safety Heating Company, was heard on the subject of establishing a plant to manufacture gas for use at the University, and was asked to submit a

proposition with regard to the same to the Committee on Buildings and Grounds.

By request of Mr. Graham, Mr. Bullard presided during the remainder of the session.

The Finance Committee was instructed to purchase a sprinkler for the use of the grounds.

Mr. Morgan offered the following resolution:

*Resolved*, That the Committee on Buildings and Grounds be instructed to sell the S. W.  $\frac{1}{4}$  21-19 N.-9 E. 3 P. M., on the best practical terms, for a sum not less than \$75 per acre, and apply the proceeds to the construction of a residence for the President of the University. And it is further instructed to locate the building directly west of Engineering Hall, and west of the main avenue of the campus, or elsewhere, as shall be decided upon by President Draper and the Committee.

In case of such sale, the President and Secretary of this Board are authorized and directed to make the necessary conveyance of the same.

Mr. Raymond moved to amend by striking out \$75.00 and inserting \$80.00.

Mr. McLean moved to postpone the whole subject till the September meeting. Upon this motion the yeas were Messrs. Bullard, McLean, and Raymond; nays, Messrs. Armstrong, Morgan, Morrison, and Dr. Smith.

The motion was lost.

Upon the amendment offered by Mr. Raymond, the yeas were Messrs. Bullard, Graham, McLean, and Raymond, Dr. Smith being excused from voting; nays, Messrs. Armstrong, Morgan, and Morrison, and the amendment prevailed.

The resolution was then adopted by the following vote: Yeas, Messrs. Armstrong, Graham, Morgan, Morrison, Raymond, and Dr. Smith; nays, Messrs. Bullard, and McLean.

It was voted that the whole of the \$1,775 appropriated at the meeting of June 13th, in the payment of the claim of Yeager & Schultz, should be taken from the state appropriation for Engineering Hall.

An appropriation was made of \$100 to be offered in prizes at an oratorical contest.

The Business Agent was authorized to sell three old machines, now in Machinery Hall, belonging to the mechanical engineering department.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

N. W. GRAHAM,  
*President.*



## LIST OF WARRANTS FOR YEAR ENDING AUGUST 31, 1895.

No.	Date.	To whom.	For what.	Amount.
1894.				
1	Sept. 1....	Yeager & Schultz.....	On building contract.....	\$19, 186 60
2	" 1....	Maltby & Wallace.....	On heating contract.....	1,000 00
3	" 1....	Geo. L. Batchelder.....	On electric wiring contract.....	300 00
4	" 1....	Robinson & Burr.....	Pipe, fittings, etc.....	23 03
5	" 1....	Western Electric Instrum't Co.	Repairs, etc.....	16 47
6	" 1....	Chicago Shafting & Pulley Co.	Shafting, etc.....	121 16
7	" 1....	Chas. H. Besly & Co.....	Iron, etc.....	68 22
8	" 1....	Western Electric Co.....	Lamps, etc.....	177 39
9	" 1....	Quincy Granite Co.....	Granite cubes.....	10 00
10	" 1....	Library Bureau.....	Library cards, etc.....	33 88
11	" 1....	Engineering News Pub. Co....	Advertising.....	6 88
12	" 1....	J. Bishop.....	Repairs.....	26 65
13	" 1....	J. C. Vaughn.....	Greenhouse stock.....	4 94
14	" 1....	L. Manasse.....	Charts.....	2 00
15	" 1....	E. H. Sargent & Co.....	Laboratory supplies.....	17 02
16	" 1....	C. N. Clark & Co.....	Paper weights.....	7 90
17	" 1....	A. A. Beal & Co.....	Plates.....	25 00
18	" 1....	A. C. Stokes.....	Analytical keys.....	1 25
19	" 1....	Geo. B. Cresson.....	Books, etc.....	1 00
20	" 1....	McIntosh Battery & Optical Co.	Repairs.....	4 15
21	" 1....	Library Bureau.....	Supplies.....	7 25
22	" 1....	W. O. Krohn.....	Expenses.....	10 67
23	" 1....	W. G. Johnson.....	".....	10 34
24	" 1....	E. B. Forbes.....	".....	19 21
25	" 1....	S. A. Forbes.....	".....	97 96
26	" 29....	A. S. Draper.....	Salary for September, 1894.	583 33
27	" 29....	T. J. Burrill.....	".....	225 00
28	" 29....	S. W. Shattuck.....	".....	166 66
29	" 29....	E. Snyder.....	".....	83 33
30	" 29....	N. C. Ricker.....	".....	166 66
31	" 29....	I. O. Baker.....	".....	166 66
32	" 29....	S. A. Forbes.....	".....	83 33
33	" 29....	C. W. Rolfe.....	".....	166 66
34	" 29....	D. McIntosh.....	".....	150 00
35	" 29....	A. N. Talbot.....	".....	166 66
36	" 29....	A. W. Palmer.....	".....	166 66
37	" 29....	F. F. Frederick.....	".....	158 33
38	" 29....	S. W. Parr.....	".....	166 66
39	" 29....	H. J. Barton.....	".....	166 66
40	" 29....	Chas. M. Moss.....	".....	166 66
41	" 29....	D. K. Dodge.....	".....	166 66
42	" 29....	L. P. Breckenridge.....	".....	166 66
43	" 29....	D. W. Shea.....	".....	166 66
44	" 29....	David Kinley.....	".....	158 33
45	" 29....	J. D. Bruner.....	".....	150 00
46	" 29....	Wm. J. Eckoff.....	".....	150 00
47	" 29....	Katharine Merrill.....	".....	100 00
48	" 29....	W. O. Krohn.....	".....	150 00
49	" 29....	Elizabeth Cooley.....	".....	133 33
50	" 29....	H. E. Summers.....	".....	125 00
51	" 29....	E. J. Townsend.....	".....	125 00
52	" 29....	W. H. VanDervoort.....	".....	129 16
53	" 29....	W. D. Pence.....	".....	104 16
54	" 29....	E. B. Green.....	".....	133 33
55	" 29....	F. F. Bicknell.....	".....	125 00
56	" 29....	E. G. Howe.....	".....	150 00
57	" 29....	A. Kellogg.....	".....	110 00
58	" 29....	A. H. Daniels.....	".....	105 00
59	" 29....	G. W. Parker.....	".....	115 00
60	" 29....	T. A. Clark.....	".....	110 00
61	" 29....	C. D. McLane.....	".....	105 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1894.			
62	Sept. 29...	C. B. Clark .....	Salary for September, 1894.....	\$75 00
63	" 29....	W. E. Sandford.....	" .....	80 00
64	" 29....	Alice M. Barber .....	" .....	65 00
65	" 29....	H. S. Piatt.....	" .....	85 00
66	" 29....	H. E. Parker.....	" .....	30 00
67	" 29....	C. A. Gunn .....	" .....	75 00
68	" 29....	A. H. White .....	" .....	75 00
69	" 29....	Wm. Esty.....	" .....	100 00
70	" 29....	B. V. Swenson .....	" .....	85 00
71	" 29....	A. Curtiss .....	" .....	75 00
72	" 29....	Fred A. Sager .....	" .....	80 00
73	" 29....	L. W. Peabody .....	" .....	70 00
74	" 29....	G. W. McCluer .....	" .....	15 00
75	" 29....	Helen Butterfield .....	" .....	60 00
76	" 29....	P. Mogenson.....	" .....	75 00
77	" 29....	R. Vial.....	" .....	60 00
78	" 29....	E. J. Lake.....	" .....	45 00
79	" 29....	J. G. Mosier.....	" .....	60 00
80	" 29....	H. E. Reeves .....	" .....	10 00
81	" 28....	Henry Jones.....	" .....	50 00
82	" 29....	A. C. Burnham.....	" .....	80 00
83	" 29....	Harry Grindley .....	" .....	100 00
84	" 29....	Gertrude Shawhan.....	" .....	20 00
85	" 29....	N. A. Weston.....	" .....	80 00
86	" 29....	Adelle Clendenin.....	" .....	60 00
87	" 29....	R. A. Wood.....	" .....	40 00
88	" 29....	G. C. Miller.....	" .....	40 00
89	" 28....	C. F. Hottes .....	" .....	40 00
90	" 29....	Ola C. Woolsey.....	" .....	40 00
91	" 29....	W. S. McGee.....	" .....	40 00
92	" 29....	W. L. Pillsbury.....	" .....	100 00
93	" 29....	Lillie Heath.....	" .....	45 00
94	" 29....	Elva Blount.....	" .....	45 00
95	" 29....	A. B. Baker.....	" .....	70 00
96	" 29....	C. A. Herme.....	" .....	30 00
97	" 29....	L. G. Lathrop.....	" .....	30 00
98	" 29....	J. Morrow.....	" .....	65 00
99	" 29....	M. F. Lindsey.....	" .....	30 00
100	" 29....	L. H. Walden.....	" .....	25 00
101	" 29....	A. Iten.....	" .....	25 00
102	" 29....	I. H. Allen.....	" .....	30 00
103	" 29....	E. W. Justus.....	" .....	40 00
104	" 29....	Philip Schwehm.....	" .....	25 00
105	" 29....	H. C. Forbes.....	" .....	83 33
106	" 29....	Mary J. Snyder.....	" .....	62 50
107	" 29....	W. G. Johnson.....	" .....	100 00
108	" 29....	Frank Smith.....	" .....	100 00
109	" 29....	C. A. Hart.....	" .....	62 50
110	" 29....	Miles Newbery.....	" .....	45 00
111	" 29....	N. W. Graham.....	Expenses to Board meeting.....	22 62
112	" 29....	Alex. McLean.....	" .....	20 00
113	" 29....	S. A. Bullard.....	" .....	114 03
114	" 29....	Jas. E. Armstrong.....	" .....	15 75
115	" 29....	F. M. McKay.....	" .....	27 85
116	" 29....	W. L. Pillsbury.....	" .....	7 90
117	" 29....	S. W. Shattuck.....	" .....	8 51
118	" 29....	C. B. Kimball.....	Salary for September, 1894.....	60 00
119	" 29....	R. P. Smith.....	" .....	100 00
120	" 29....	Lydia Hart.....	Drawings and expenses.....	64 67
121	" 29....	W. G. Johnson.....	Traveling expenses.....	24 12
122	" 29....	F. L. Bills.....	Postage.....	27 00
123	" 29....	G. W. Bullard.....	Architect's services.....	1,600 00
124	" 29....	Babcock & Wilcox Co.....	Boilers.....	4,647 50
125	" 29....	Maltby & Wallace Co.....	Putting in steam.....	170 00
126	Oct. 15....	Peoria Steam Marble Works.....	Tile.....	5 45
127	" 15....	Messenger Printing Co.....	Advertising.....	3 00
128	" 15....	The Champaign Times.....	" .....	7 85
129	" 15....	The Public School Pub. Co.....	" .....	6 00
130	" 15....	Knowlton & Bennett.....	Paints, etc.....	25 03
131	" 15....	Fuller & Fuller Co.....	Chemical supplies, glass, etc.....	62 91
132	" 15....	Kariher Coöperative Co.....	Matches, etc.....	4 70
133	" 15....	Bullard & Gormley Co.....	Hardware.....	4 37
134	" 15....	Baker Adamson.....	Acids.....	95 74
135	" 15....	Goodyear Rubber Co.....	Tubing.....	18 47
136	" 15....	Richards & Co.....	Chemical supplies.....	36 87
137	" 15....	E. G. Smith.....	Tools.....	39 83
138	" 15....	Henry Heil Chemical Co.....	Laboratory supplies.....	62 60

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1894.			
139	Oct. 15.	J. T. Slocomb & Co.	Tools.	\$3 00
140	" 15.	McLean County Coal Co.	Coal.	786 38
141	" 15.	Albany Perf'd Wrapp'g P. Co.	Paper.	8 00
142	" 15.	Orr & Lockett Hardware Co.	Hardware.	65 36
143	" 15.	Jones & Laughlins.	Pulley, etc.	20 39
144	" 15.	Brown & Sharp M'f'g Co.	Milling machines	579 90
145	" 15.	Cleveland Twist Drill Co.	Drills	11 93
146	" 15.	Sanderson Bros. Steel Co.	Steel	2 10
147	" 15.	Fairbanks, Morse & Co.	Scales.	24 05
148	" 15.	The Ohio Stamp Works	Stamps	3 29
149	" 15.	W. F. & John Barnes Co.	Tool grinder.	68 00
150	" 15.	S. P. Sutton.	Services, Supt. Engineering Hall.	240 00
151	" 15.	F. B. Coffman.	Blind.	5 00
152	" 15.	R. S. Wilber.	Drayage	3 68
153	" 15.	Sam'l N. Rhoady	Ord's Zoölogy	2 00
154	" 15.	Bausch & Lomb Optical Co.	Laboratory supplies.	7 80
155	" 15.	Eimer & Amend.		80 79
156	" 15.	G. E. Stechert.	Books, etc.	108 91
157	" 15.	W. H. Rau.	Prints.	7 33
158	" 15.	Rankin & Fritsch F. & M. Co.	Moulding machine.	20 00
159	" 15.	A. C. McClurg & Co.	Stationery and books.	134 65
160	" 15.	Eugene Dietzen & Co.	Paper, etc.	12 20
161	" 15.	G. Cramer.	Glass plates, etc.	11 20
162	" 15.	F. H. Robeson & Bros.	Carpet	32 50
163	" 15.	Office Specialty M'f'g Co.	Cabinet.	54 25
164	" 15.	A. H. Andrews Co.	Furniture.	280 00
165	" 15.	B. Zelle.	Office rent.	22 50
166	" 15.	H. E. Summers.	Expenses.	20 51
167	" 15.	T. H. Trevett.	Spark guard.	1 50
168	" 15.	Union Manufacturing Co.	Water to January 1, 1895.	125 00
169	" 15.	W. R. Howe.	Drayage	90 22
170	" 15.	N. C. Ricker	Traveling expenses.	11 66
171	" 15.	Wm. Esty.	Battery, etc.	2 50
172	" 15.	F. F. Frederick.	Expenses of cleaning room	16 21
173	" 15.	F. L. Bills.	Postage.	54 00
174	" 15.	Pay roll of men, Sept., 1894.	Labor	589 31
175	" 15.	Pay-roll of students, Sept., 1894.		186 18
176	" 31.	A. S. Draper	Salary for October, 1894.	583 33
177	" 31.	T. J. Burrill.	"	225 00
178	" 31.	S. W. Shattuck	"	166 66
179	" 31.	E. Snyder.	"	83 33
180	" 31.	N. C. Ricker	"	166 66
181	" 31.	I. O. Baker	"	166 66
182	" 31.	S. A. Forbes	"	83 33
183	" 31.	C. W. Rolfe	"	166 66
184	" 31.	D. McIntosh	"	150 00
185	" 31.	A. N. Talbot	"	166 66
186	" 31.	A. W. Palmer	"	166 66
187	" 31.	F. F. Frederick	"	158 33
188	" 31.	S. W. Parr	"	166 66
189	" 31.	H. J. Barton	"	166 66
190	" 31.	Chas. M. Moss.	"	166 66
191	" 31.	D. K. Dodge	"	166 66
192	" 31.	L. P. Breckenridge.	"	166 66
193	" 31.	D. W. Shea	"	166 66
194	" 31.	David Kinley	"	158 33
195	" 31.	J. D. Bruner	"	150 00
196	" 31.	Wm. J. Eckoff	"	150 00
197	" 31.	Katharine Merrill	"	100 00
198	" 31.	W. O. Krohn.	"	150 00
199	" 31.	Elizabeth Cooley	"	133 33
200	" 31.	H. E. Summers.	"	125 00
201	" 31.	E. J. Townsend.	"	125 00
202	" 31.	Wm. H. Van Dervoort	"	129 16
203	" 31.	W. D. Pence	"	104 16
204	" 31.	E. B. Greene	"	133 33
205	" 31.	Percy F. Bicknell.	"	125 00
206	" 31.	E. G. Howe	"	150 00
207	" 31.	Anita M. Kellogg.	"	110 00
208	" 31.	A. H. Daniels.	"	105 00
209	" 31.	G. W. Parker	"	115 00
210	" 31.	T. A. Clark	"	110 00
211	" 31.	C. D. McLane.	"	105 00
212	" 31.	Frank Smith.	"	100 00
213	" 31.	R. P. Smith.	"	100 00
214	" 31.	J. D. Phillips	"	80 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1894.				
215	Oct. 31	C. B. Clark.....	Salary for October, 1894.....	\$75 00
216	" 31	W. E. Sandford.....	" " " " " "	80 00
217	" 31	Alice M. Barber.....	" " " " " "	65 00
218	" 31	H. S. Piatt.....	" " " " " "	85 00
219	" 31	H. E. Parker.....	" " " " " "	30 00
220	" 31	C. A. Gunn.....	" " " " " "	75 00
221	" 31	A. H. White.....	" " " " " "	75 00
222	" 31	William Esty.....	" " " " " "	100 00
223	" 31	B. V. Swenson.....	" " " " " "	85 00
224	" 31	A. Curtiss.....	" " " " " "	75 00
225	" 31	Fred A. Sager.....	" " " " " "	80 00
226	" 31	L. W. Peabody.....	" " " " " "	70 00
227	" 31	G. W. McCluer.....	" " " " " "	15 00
228	" 31	Helen E. Butterfield.....	" " " " " "	60 00
229	" 31	Peter Mogensen.....	" " " " " "	75 00
230	" 31	R. Vial.....	" " " " " "	75 00
231	" 31	E. J. Lake.....	" " " " " "	45 00
232	" 31	J. G. Mosier.....	" " " " " "	60 00
233	" 31	H. E. Reeves.....	" " " " " "	10 00
234	" 31	Henry Jones.....	" " " " " "	50 00
235	" 31	A. C. Burnham.....	" " " " " "	80 00
236	" 31	H. S. Grindley.....	" " " " " "	100 00
237	" 31	Gertrude Shawhan.....	" " " " " "	20 00
238	" 31	N. A. Weston.....	" " " " " "	80 00
239	" 31	Robt. A. Wood.....	" " " " " "	40 00
240	" 31	G. C. Miller.....	" " " " " "	40 00
241	" 31	C. F. Hottes.....	" " " " " "	40 00
242	" 31	Ola C Woolsey.....	" " " " " "	40 00
243	" 31	W. S. McGee.....	" " " " " "	40 00
244	" 31	Adelle Clendendin.....	" " " " " "	60 00
245	" 31	W. L. Pillsbury.....	" " " " " "	100 00
246	" 31	Lillie Heath.....	" " " " " "	45 00
247	" 31	Elva Blount.....	" " " " " "	45 00
248	" 31	A. B. Baker.....	" " " " " "	70 00
249	" 31	C. A. Herne.....	" " " " " "	30 00
250	" 31	L. G. Lathrop.....	" " " " " "	30 00
251	" 31	J. Morrow.....	" " " " " "	65 00
252	" 31	M. F. Lindsey.....	" " " " " "	30 00
253	" 31	L. H. Walden.....	" " " " " "	25 00
254	" 31	A. Iten.....	" " " " " "	25 00
255	" 31	I. H. Allen.....	" " " " " "	30 00
256	" 31	E. W. Justus.....	" " " " " "	40 00
257	" 31	Philip Schwehm.....	" " " " " "	25 00
258	" 31	L. de P. Vail.....	" " " " " "	133 33
259	" 31	H. C. Forbes.....	" " " " " "	83 33
260	" 31	Mary J. Snyder.....	" " " " " "	62 50
261	" 31	W. G. Johnson.....	" " " " " "	100 00
262	" 31	Frank H. Clement Co.....	Planer.....	130 80
263	" 31	F. A. Rich.....	Cutter.....	2 11
264	" 31	Carl Schoenhof.....	Books.....	11 30
265	" 31	Robinson & Burr.....	Astronomical target.....	11 68
266	" 31	Library Bureau.....	Cards, etc.....	73 05
267	" 31	C. H. Baddely.....	Lamps, etc.....	5 50
268	" 31	Wabash R. R. Co.....	Freight charges.....	8 54
269	" 31	Empire Steam Laundry.....	Toweling.....	2 50
270	" 31	Isaac Fielding.....	P. O. box rent.....	2 75
271	" 31	Union Telephone Co.....	Rent of instruments.....	21 00
272	" 31	W. O. Krohn.....	Expenses.....	23 63
273	" 31	E. G. Howe.....	Expenses.....	12 60
274	" 31	W. L. Pillsbury.....	Traveling expenses.....	9 04
275	" 31	S. W. Shattuck.....	Petty expenses, 3 months to Aug. 3.	35 02
276	" 31	Jones & Laughlins.....	Steel.....	6 26
277	" 31	Fuller & Fuller Co.....	Hard oil finish.....	7 50
278	" 31	A. C. McClurg & Co.....	Books, etc.....	95 84
279	" 31	Pantagraph Co.....	Binding.....	166 60
280	" 31	The Ashcroft Mfg. Co.....	Indicators.....	225 20
281	" 31	J. B. Edson.....	Pressure recording gauge.....	67 50
282	" 31	Buffalo Scales Co.....	Test weights.....	51 24
283	" 31	Theo. S. Obermayer.....	Ladle shanks, bail, etc.....	14 50
284	" 31	E. G. Smith.....	Calipers, gauges, etc.....	23 05
285	" 31	A. P. Cunningham & Son.....	Tracing cloth.....	18 60
286	" 31	T. H. Trevett.....	Copper band, etc.....	2 25
287	" 31	Maltby & Wallace Co.....	Fittings and repairs.....	230 29
288	" 31	Elmer & Amend.....	Burettes and supports.....	8 90
289	" 31	Yale & Towne Mfg. Co.....	Locks, etc.....	22 28
290	" 31	P. Blakinson & Son Co.....	Gould's Dictionary.....	10 00
291	" 31	Lea Bros. & Co.....	The Am. Journal of Med. Science.....	4 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1894.				
292	Oct. 31....	Matthiessen & Hegeler Zinc Co.	Granulated spelter.....	4 45
293	" 31....	The Chicago Carpet Co.....	Mats.....	8 00
294	" 31....	A. H. Abbott & Co.....	Manikin.....	2 22
295	" 31....	U. S. Patent Office.....	Books.....	31 20
296	" 31....	C. C. C. St. & L. Ry. Co.....	Freight charges.....	29 59
297	" 31....	Illinois Central R. R. Co.....	" ".....	34 91
298	" 31....	Pacific Express Co.....	" ".....	4 30
299	" 31....	American Express Co.....	" ".....	18 15
300	" 31....	W. G. Johnson.....	Traveling expenses.....	34 77
301	Nov. 15....	Maltby & Wallace Co.....	On contract for heating.....	500 00
302	" 15....	Douglass & Shuey Co.....	Camera.....	10 80
303	" 15....	The Globe Co.....	Cases.....	60 00
304	" 15....	Henry Trevett.....	Hardware.....	10 90
305	" 15....	B. Westermann & Co.....	Books.....	7 70
306	" 15....	Bausch & Lomb Optical Co.....	Laboratory supplies.....	23 44
307	" 15....	B. F. Swartz.....	Coal.....	6 25
308	" 15....	A. A. Beal & Co.....	Plates.....	33 00
309	" 15....	J. M. Schilling.....	Laboratory supplies.....	26 30
310	" 15....	H. C. Forbes.....	Petty expense.....	4 25
311	" 15....	Geo. B. Cresson.....	Books.....	8 00
312	" 15....	Thos. Naughton.....	Photographs.....	16 25
313	" 15....	Townsend MacCoun.....	Charts.....	20 00
314	" 15....	Library Bureau.....	Cases and cards.....	213 75
315	" 15....	Estes & Lauriat.....	Books.....	31 00
316	" 15....	Carl Schoenhof.....	".....	2 35
317	" 15....	Manning, Maxwell & Moore.....	Pulley.....	4 34
318	" 15....	Page Belting Co.....	Belting.....	49 98
319	" 15....	Paul Mfg. Co.....	Pulley.....	8 63
320	" 15....	Hamilton & Son.....	Lumber.....	41 67
321	" 15....	Eyler & Co.....	Books.....	4 70
322	" 15....	The Machinist Supply Co.....	Tools and supplies.....	37 88
323	" 15....	E. H. Sargent Co.....	Laboratory supplies.....	13 08
324	" 15....	G. P. Clinton.....	Traveling expenses.....	6 00
325	" 15....	G. E. McHose.....	Hire of boat.....	83 00
326	" 15....	N. W. Graham.....	Expenses to Board meeting.....	19 82
327	" 15....	Alex. McLean.....	" ".....	29 85
328	" 15....	F. M. McKay.....	" ".....	18 75
329	" 15....	N. B. Morrison.....	" ".....	61 80
330	" 15....	T. J. Burrill.....	Traveling expenses.....	56 75
331	" 15....	C. A. Hart.....	Salary, part of October, 1894.....	62 50
332	" 15....	Lydia M. Hart.....	Drawings.....	27 25
333	" 15....	Bernard Quaritch.....	Books.....	13 81
334	" 15....	W. O. Krohn.....	Expenses.....	34 44
335	" 15....	P. F. Byrnes.....	Crushed rock.....	6 00
336	" 15....	The Star Crescent Distillery.....	Alcohol.....	35 91
337	" 15....	Frank Young.....	Tuning piano.....	5 00
338	" 15....	W. R. Howe.....	Drayage.....	24 03
339	" 15....	F. L. Bills.....	Postage.....	125 00
340	" 15....	S. A. Forbes.....	Expenses.....	48 42
341	" 15....	T. A. Clark.....	Plans, cuts, etc.....	24 27
342	" 15....	G. E. Stechert.....	Books.....	42 63
343	" 19....	Neptune Meter Co.....	Apparatus.....	1 00
344	" 15....	Fisher Governor Co.....	".....	12 50
345	" 15....	Maltby & Wallace Co.....	Pipe, fittings, etc.....	61 10
346	" 15....	Orr & Lockett Hardware Co.....	Locks.....	3 50
347	" 15....	Robinson & Burr.....	Briquette molds.....	43 75
348	" 15....	The M. C. Lilly Co.....	Swords, belts, etc.....	61 83
349	" 15....	Payroll of men, Oct. 1894.....	Labor.....	460 46
350	" 15....	Payroll of students, Oct., 1894.....	".....	163 98
351	" 30....	A. S. Draper.....	Salary for November, 1894.....	583 33
352	" 30....	T. J. Burrill.....	" ".....	225 00
353	" 30....	S. W. Shattuck.....	" ".....	166 66
354	" 30....	E. Snyder.....	" ".....	83 33
355	" 30....	N. C. Ricker.....	" ".....	166 66
356	" 30....	I. O. Baker.....	" ".....	166 66
357	" 30....	S. A. Forbes.....	" ".....	83 33
358	" 30....	C. W. Rolfe.....	" ".....	166 66
359	" 30....	D. McIntosh.....	" ".....	150 00
360	" 30....	A. N. Talbot.....	" ".....	166 66
361	" 30....	A. W. Palmer.....	" ".....	166 66
362	" 30....	F. F. Frederick.....	" ".....	158 33
363	" 30....	S. W. Parr.....	" ".....	166 66
364	" 30....	H. J. Barton.....	" ".....	166 66
365	" 30....	Chas. M. Moss.....	" ".....	166 66
366	" 30....	D. K. Dodge.....	" ".....	166 66
367	" 30....	L. P. Breckinridge.....	" ".....	166 66
368	" 30....	D. W. Shea.....	" ".....	166 66
369	" 30....	David Kinley.....	" ".....	158 33

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1894.			
370	Nov. 30	J. D. Bruner	Salary for November, 1894.	150 06
371	30	Wm. J. Eckoff		150 00
372	30	Katharine Merrill		100 00
373	30	W. O. Krohn		150 00
374	30	Elizabeth Cooley		133 33
375	30	H. E. Summers		125 00
376	30	E. J. Townsend		125 00
377	30	W. H. VanDervoort		129 16
378	30	W. D. Pence		104 16
379	30	E. B. Greene		133 33
380	30	Percy F. Bicknell		125 00
381	30	E. G. Howe		150 00
382	30	Anita M. Kellogg		110 00
383	30	A. H. Daniels		105 00
384	30	G. W. Parker		115 00
385	30	H. S. Grindley		100 00
386	30	T. A. Clark		110 00
387	30	C. D. McLane		105 00
388	30	Frank Smith		100 00
389	30	R. P. Smith		100 00
390	30	J. D. Phillips		80 00
391	30	C. B. Clark		75 00
392	30	W. E. Sandford		80 00
393	30	Alice M. Barber		65 00
394	30	H. S. Piatt		85 00
395	30	H. E. Parker		30 00
396	30	Chas. A. Gunn		75 00
397	30	Alfred H. White		75 00
398	30	William Esty		100 00
399	30	B. V. Swenson		85 00
400	30	A. Curtiss		75 00
401	30	Fred A. Sager		80 00
402	30	L. W. Peabody		70 00
403	30	G. W. McCluer		15 00
404	30	Helen E. Butterfield		60 00
405	30	Peter Mogensen		75 00
406	30	R. Vial		65 00
407	30	E. J. Lake		45 00
408	30	J. G. Mosier		60 00
409	30	H. E. Reeves		10 00
410	30	Henry Jones		50 00
411	30	A. C. Burnham		80 00
412	30	Gertrude Shawhan		20 00
413	30	N. A. Weston		80 00
414	30	Adelle Clendenin		60 00
415	30	Robt. A. Wood		40 00
416	30	G. C. Miller		40 00
417	30	Chas. F. Hottes		40 00
418	30	Ola C. Woolsey		40 00
419	30	W. S. McGee		40 00
420	30	F. H. Dodge	<sup>1</sup> / <sub>2</sub> September, 1894.	66 66
421	30	L. de P. Vail	November, 1894	200 00
422	30	W. L. Pillsbury		100 00
423	30	L. P. Breckenridge	3 months to date	62 50
424	30	S. W. Shattuck		150 00
425	30	Lillie Heath	November, 1894	45 00
426	30	Elva Blount		45 00
427	30	A. B. Baker		70 00
428	30	C. A. Herme		30 00
429	30	L. G. Lathrop		30 00
430	30	J. Morrow		65 00
431	30	M. J. Lindsey		30 00
432	30	L. H. Walden		25 00
433	30	A. Iten		25 00
434	30	I. H. Allen		30 00
435	30	E. W. Justus		40 00
436	30	Philip Schwem		25 00
437	30	J. M. Doughty		35 00
438	30	H. C. Forbes		83 33
439	30	Mary J. Snyder		62 50
440	30	W. G. Johnson		100 00
441	30	C. A. Hart		62 50
442	30	Mrs. Frank Smith	May, 1894.	10 03
443	30	Miles Newberry	Labor, etc	10 50
444	30	C. A. Hart	Railway fare	3 02
445	30	I. O. Baker	Expenses	4 82
446	30	Twin City Electric Co.	Lamp cord	2 00
447	30	Stearns Lime & Stone Co	Plaster	2 50



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1894.			
526	Dec. 15	Goodyear Rubber Co .....	Rubber tubing .....	\$4 65
527	"	E. Miller & Son .....	Dry goods .....	1 80
528	"	Brown & Sharpe Mfg. Co .....	Calipers .....	23 95
529	"	E. G. Smith .....	" .....	31 25
530	"	T. H. Trvett .....	Hardware .....	11 58
531	"	A. P. Cunningham & Son .....	Tracing paper, etc. ....	14 70
532	"	Western Electric Co .....	Wire, globes, etc. ....	78 65
533	"	Henry Heil Chemical Co .....	Chemical supplies .....	4 12
534	"	Electrical Engineer .....	Odd numbers .....	1 70
535	"	Queen & Co .....	Chemical apparatus and supplies ..	491 00
536	"	H. C. Forbes .....	Expenses .....	2 20
537	"	Franklin Eng. and Electro. Co .....	Cuts .....	66 00
538	"	A. A. Beal & Co .....	Plates .....	4 50
539	"	O. Riley .....	Tweezers .....	1 20
540	"	Levy Type Co .....	Plates .....	8 20
541	"	National Typewriter Exchange .....	Ribbons .....	2 25
542	"	Edwin Hunt's Sons .....	Hardware .....	500 13
543	"	Yale & Towne Mfg. Co .....	Locks .....	26 28
544	"	Maltby & Wallace Co .....	Boiler connections .....	268 61
545	"	Sheldon Brick Co .....	Brick .....	110 75
546	"	Office Specialty Mfg. Co .....	Shannon files .....	139 87
547	"	Walch & Wyethe .....	Covering steam pipe .....	202 23
548	"	Library Bureau .....	Cases, etc. ....	19 00
549	"	S. P. Sutton .....	Services as superintendent .....	265 00
550	"	Fuller & Fuller Co .....	Chemical supplies .....	49 06
551	"	Robinson & Burr .....	Pipe and fittings, etc .....	52 07
552	"	National Meter Co .....	Repairs .....	8 10
553	"	Page Belting Co .....	Belting .....	10 20
554	"	Whitall, Tatum & Co .....	Pharmacy supplies .....	91 10
555	"	Crosby St'm Gauge and V. Co .....	Gauges and cards .....	39 91
556	"	Chas. H. Besly & Co .....	Brass rods, etc. ....	23 66
557	"	Hubbard & Sons .....	Hardware .....	20 75
558	"	Sylvia Clapin .....	Books .....	4 50
559	"	McDonnell Bros .....	Cyclopedia of Names .....	10 00
560	"	Webster Mfg. Co .....	Chairs .....	16 66
561	"	T. R. White, Jr. ....	Gas for October, 1894 .....	183 25
562	"	Pantagraph Co .....	Trays .....	52 00
563	"	J. W. Weston .....	Index .....	2 50
564	"	Electric Lighting & Power Co .....	Power for November, 1894 .....	38 00
565	"	Lafayette Lumber Mfg. Co .....	Furniture .....	2,824 49
566	"	The <i>Illini</i> .....	Extra papers .....	63 25
567	"	Thos. Naughton .....	Photos .....	17 25
568	"	Northwestern Cal. Light Co .....	Gas .....	7 80
569	"	Henry R. Worthington .....	Copper float .....	10 20
570	"	H. Chester .....	Hack hire .....	3 50
571	"	Lyon & Healey .....	Music .....	6 78
572	"	D. H. Lloyd & Son .....	Stationery .....	16 12
573	"	Empire Steam Laundry .....	Washing .....	2 15
574	"	F. Finder .....	Labor .....	7 25
575	"	A. H. White .....	Books .....	6 43
576	Dec. 31	A. S. Draper .....	Salary for December, 1894 .....	583 33
577	"	T. J. Burrill .....	" .....	225 00
578	"	S. W. Shattuck .....	" .....	166 66
579	"	E. Snyder .....	" .....	83 33
580	"	N. C. Ricker .....	" .....	166 66
581	"	I. O. Baker .....	" .....	166 66
582	"	S. A. Forbes .....	" .....	83 33
583	"	C. W. Rolfe .....	" .....	166 66
584	"	D. McIntosh .....	" .....	150 00
585	"	A. N. Talbot .....	" .....	166 66
586	"	A. W. Palmer .....	" .....	166 66
587	"	F. F. Frederick .....	" .....	158 33
588	"	S. W. Parr .....	" .....	166 66
589	"	H. J. Barton .....	" .....	166 66
590	"	Chas. M. Moss .....	" .....	166 66
591	"	D. K. Dodge .....	" .....	166 66
592	"	L. P. Breckenridge .....	" .....	166 66
593	"	D. W. Shea .....	" .....	166 66
594	"	David Kinley .....	" .....	158 33
595	"	J. D. Bruner .....	" .....	150 00
596	"	Wm. J. Eckoff .....	" .....	150 00
597	"	Katharine Merrill .....	" .....	100 00
598	"	W. O. Krohn .....	" .....	100 00
599	"	Elizabeth Cooley .....	" .....	133 33
600	"	H. E. Summers .....	" .....	125 00



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1894.			
601	Dec. 31	E. J. Townsend .....	Salary for December, 1894.....	\$125 00
602	"	W. H. Van Dervoort.....	"	129 16
603	"	W. D. Pence.....	"	104 17
604	"	E. B. Greene.....	"	133 33
605	"	F. H. Dodge.....	"	133 33
606	"	Percy F. Bicknell.....	"	125 00
607	"	E. G. Howe.....	"	150 00
608	"	Anita M. Kellogg.....	"	110 00
609	"	A. H. Daniels.....	"	105 00
610	"	Geo. H. Parker.....	"	115 00
611	"	H. S. Grindley.....	"	100 00
612	"	T. A. Clark.....	"	110 00
613	"	C. D. McLane.....	"	105 00
614	"	Frank Smith.....	"	100 00
615	"	R. P. Smith.....	"	100 00
616	"	J. D. Phillips.....	"	80 00
617	"	C. B. Clark.....	"	75 00
618	"	W. E. Sandford.....	"	80 00
619	"	Alice M. Barber.....	"	65 00
620	"	H. S. Piatt.....	"	85 00
621	"	H. E. Parker.....	"	30 00
622	"	Chas. A. Gunn.....	"	75 00
623	"	Alfred H. White.....	"	75 00
624	"	William Esty.....	"	100 00
625	"	B. V. Swenson.....	"	85 00
626	"	A. R. Curtiss.....	"	75 00
627	"	Fred A. Sager.....	"	80 00
628	"	L. W. Peabody.....	"	70 00
629	"	G. W. McCluer.....	"	15 00
630	"	Helen E. Butterfield.....	"	60 00
631	"	Peter Mogenson.....	"	75 00
632	"	R. Vial.....	"	65 00
633	"	E. J. Lake.....	"	45 00
634	"	J. G. Mosier.....	"	60 00
635	"	H. E. Reeves.....	"	10 00
636	"	Henry Jones.....	"	50 00
637	"	A. C. Burnham.....	"	80 00
638	"	Gertrude Shawhan.....	"	20 00
639	"	N. A. Weston.....	"	80 00
640	"	Adelle Clendendin.....	"	60 00
641	"	Robt. A. Wood.....	"	40 00
642	"	G. C. Miller.....	"	40 00
643	"	Chas. F. Hottes.....	"	40 00
644	"	Ola C. Woolsey.....	"	40 00
645	"	W. S. McGee.....	"	40 00
646	"	Lillie Heath.....	"	45 00
647	"	Elva Blount.....	"	45 00
648	"	A. B. Baker.....	"	70 00
649	"	C. A. Herme.....	"	30 00
650	"	L. G. Lathrop.....	"	30 00
651	"	J. Morrow.....	"	65 00
652	"	M. F. Lindsey.....	"	30 00
653	"	L. H. Walden.....	"	25 00
654	"	A. Iten.....	"	25 00
655	"	I. H. Allen.....	"	30 00
656	"	E. W. Justus.....	"	45 00
657	"	Philip Schwehm.....	"	25 00
658	"	J. M. Doughty.....	"	35 00
659	"	C. M. Vansant.....	"	30 00
660	"	Geo. W. Lee.....	"	30 00
661	"	Chas. B. Ewalt.....	"	12 50
662	"	W. L. Pillsbury.....	"	100 00
663	"	H. Ewalt.....	"	40 00
664	"	John Mayer.....	"	20 00
665	"	H. C. Forbes.....	"	83 33
666	"	Mary J. Snyder.....	"	62 50
667	"	W. G. Johnson.....	"	100 00
668	"	Chas. A. Hart.....	"	62 50
669	"	Frank Smith.....	Salary, 3 months, to Dec. 31, 1894 ..	50 00
670	"	F. L. Bills.....	Postage.....	52 00
671	"	T. J. Burrill.....	Expenses to Havana.....	34 09
672	"	Central Electric Co.....	Buzzers, etc.....	12 35
673	"	Queen & Co.....	Apparatus.....	97 75
674	"	W. C. Vosburgh & Co.....	Combination lighting fixtures.....	1,000 00
675	"	E. B. Preston & Co.....	Hose.....	222 13

*List of Warrants—Continued.*

No.	Date.	To Whom.	For what.	Amount.
676	Dec. 31	Henry Trevett.....	Hardware.....	\$312 16
677	"	Maltby & Wallace Co.....	Repairs, etc.....	50 01
678	"	Geo. Besore.....	Lumber.....	778 57
679	"	E. Henry.....	Paints, etc.....	102 90
680	"	<i>The Gazette</i> .....	Printing and binding.....	290 65
681	"	E. H. Sargent & Co.....	Battery jars.....	6 33
682	"	H. C. Forbes.....	Expenses.....	3 97
683	"	B. Westermann & Co.....	Books.....	8 10
684	"	McDonnell Bros.....	Century Dictionary of Names.....	15 00
685	"	Walker & Mulliken.....	Chairs.....	10 50
686	"	W. G. Johnson.....	Expenses.....	2 35
687	"	C. B. Johnson.....	Flag.....	5 00
688	"	Katharine Merrill.....	Expenses.....	1 05
689	"	S. A. Forbes.....	".....	3 52
690	"	F. K. Robeson & Bros.....	Bunting, etc.....	3 75
691	"	G. C. Willis.....	Ribbon.....	11 25
692	"	Edward F. Hill.....	Bunting, etc.....	34 31
693	"	Yale & Towne M'fg Co.....	Latches.....	7 75
694	"	Douglass Shuey Co.....	Gem City stands.....	18 00
695	"	C. W. Foster.....	Salary, 3 months, to date.....	100 00
696	"	J. R. Greenhalgh.....	Spoons.....	11 00
697	"	Eugene Dietzgen & Co.....	Rubber stamp.....	3 53
698	"	B. Zelle.....	Office rent.....	17 50
699	"	Frank Smith.....	Expenses.....	23 97
700	"	S. W. Shattuck.....	Petty expenses, 3 mo. to Nov 30, '94.	36 30
	1895.			
701	January 15	N. W. Graham.....	Expenses to Board meeting.....	33 25
702	"	Henry Raab.....	".....	15 00
703	"	W. L. Pillsbury.....	".....	9 81
704	"	C. F. Wilder.....	Salary, fall term, 1894.....	36 00
705	"	J. F. Creek.....	Salary, December, 1894.....	50 00
706	"	Mayme A. Hill.....	Salary, as pianist, fall term.....	26 00
707	"	F. L. Bills.....	Postage.....	53 00
708	"	The Monarch Distillery.....	Alcohol.....	18 27
709	"	Central Union Telephone Co.....	Rent of inst's to March, 31, 1895.....	21 00
710	"	R. K. Porter.....	Standard dictionary.....	36 00
711	"	W. O. Krohn.....	Expenses.....	31 93
712	"	H. E. Summers.....	".....	25 75
713	"	W. H. Van Dervoort.....	".....	14 04
714	"	John Orstand.....	Drayage.....	6 75
715	"	The Brickbuilder.....	Subscription.....	4 00
716	"	Mary H. Steele.....	Music fees.....	100 00
717	"	W. R. Howe.....	Drayage.....	130 10
718	"	Marion Wright.....	Expenses.....	3 15
719	"	David Kinley.....	".....	24 10
720	"	S. B. Hedges.....	Door, etc.....	9 75
721	"	Mrs. C. W. Foster.....	Music fees.....	33 40
722	"	S. H. Garrison.....	Brick work.....	17 00
723	"	Wm. McGuire.....	Drawers.....	14 00
724	"	Payrolls of men Dec., 1894.....	Labor.....	312 66
725	"	Payrolls of students Dec., 1894.	".....	360 32
726	"	H. Chester.....	Carriage hire.....	1 50
727	"	J. D. Bush.....	Brooms.....	1 25
728	"	C. W. Reynolds.....	Castings.....	2 58
729	"	Smith-Premier Typewriter Co.....	Typewriter, etc.....	132 00
730	"	T. R. White, Jr.....	Gas, November, 1894.....	192 00
731	"	Bullard & Gormley Co.....	Hardware.....	30 45
732	"	Porter Bros.....	Crash.....	1 00
733	"	Ozias Riley.....	Clock.....	30 00
734	"	Urbana Brick Co.....	Brick.....	13 80
735	"	Stearns Lime & Stone Co.....	Plaster.....	5 00
736	"	General Assembly, Presbyt'an.....	Church minutes, 1894.....	1 00
737	"	Public School Publishing Co.....	Advertising.....	6 00
738	"	Kariher Cooperation Gro. Co.....	Tubes, etc.....	4 75
739	"	Standard Oil Co.....	Oils.....	26 50
740	"	Electric Appliance Co.....	Binding posts.....	5 00
741	"	Central Electric Co.....	Electrical supplies.....	10 59
742	"	A. G. Spalding Bros.....	Gymnasium apparatus.....	7 05
743	"	Jay W. Seavet.....	Anthropometric charts.....	5 00
744	"	Fairbanks, Morse & Co.....	Scales.....	13 80
745	"	T. H. Trovett.....	Hardware.....	2 75
746	"	Union Manufacturing Co.....	Water, 3 months to April, 1895.....	125 00
747	"	Bacon Mittendorf & Hal.....	Frames and charts.....	7 05
748	"	Engineering News Pub. Co.....	Books.....	8 20
749	"	Ore & Lockett Hardware Co.....	Repairs, etc.....	2 85
750	"	Eimer & Amend.....	Laboratory supplies.....	22 68
751	"	U. S. School Furniture Co.....	Chairs.....	252 00
752	"	A. H. Andrews & Co.....	Desks and chairs.....	96 00
753	"	Edwin Hunt's sons.....	Hardware.....	42 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
754	Jan. 15	Western Electric Co.	Wire	\$17 60
755	"	The Machinists' Supply Co.	Gear cutter.	3 38
756	"	Hamilton & Son	Lumber.	15 55
757	"	Kridler Manufacturing Co.	Oil cups	2 00
758	"	Kenffel & Esser Co.	Tapes.	2 12
759	"	E. Steiger & Co.	One book	1 95
760	"	Central Electric Co.	One book	54 48
761	"	G. E. Stechert.	Books.	558 95
762	"	Southwick & Critchley	Pins.	3 08
763	"	Pantagraph Co.	Binding and stationery	56 20
764	"	A. A. Beal & Co.	Plates.	3 50
765	"	Hornstein Bros.	Printing	322 00
766	"	Photo Engraving Co.	Half-tone engraving.	7 00
767	"	Franklin Engraving Co.	Cuts	22 11
768	"	J. B. Lippincott Co.	Drawing	1 99
769	"	E. H. Sargent & Co.	Bottles and corks	14 90
770	"	Thayer Jackson Stationery Co.	Reporters' books	1 00
771	"	American Express Co.	Freightage	42 95
772	"	G. H. Jordan.	Plates and photos	1 88
773	"	C. C. C. & St. L. Ry.	Freightage	35 85
774	"	Wabash Railway Co.	"	56 42
775	"	I. C. R. R. Co.	"	40 64
776	"	Robinson & Burr.	Repairs, etc.	113 96
777	"	J. W. Keller	Labor and material	9 03
778	"	Gerts, Lombard & Co.	Brooms and brushes	16 56
779	"	Horns' Coalery Co.	Coal	55 38
780	"	Urbana Brick Co.	Coal	29 59
781	"	Boyd & Abbott Co.	Inkstands	18 00
782	"	Hammond Typewriter Co.	Spools	1 00
783	"	J. C. Vaughan	Greenhouse stock	8 75
784	"	Albany Per. Wrap'g Paper Co.	Paper	21 00
785	"	A. B. Dick & Co.	Roller	1 18
786	"	Chicago Calcium Light Co.	Gas	6 61
787	"	Chicago Carpet Co.	Mats, matting	35 50
788	"	F. W. Honens	Advertising	110 00
789	"	Champaign Co. Herald.	Stationery and printing	89 00
790	"	P. P. Caproni & Bro.	Plaster casts	6 60
791	"	Electric Lighting & Power Co.	Poles	11 95
792	"	F. A. Sackmann.	Stamps	4 50
793	"	Bevis & Co.	Drawers and cases	272 00
794	"	Library Bureau	Cases	22 80
795	"	E. B. Preston & Co.	Racks	78 74
796	"	The Am. Society of Civil Eng.	Publications.	6 00
797	"	Agricultural Experiment Stat'n	Hauling cinders	15 00
798	"	Maltby & Wallace Co.	Repairs, etc.	43 25
799	"	A. C. McClurg & Co.	Books and stationery	166 16
800	"	R. S. Wilber	Drayage	52 87
801	Jan. 31	A. S. Draper	Salary for January, 1895	583 33
802	"	T. J. Burrill	"	225 00
803	"	S. W. Shattuck	"	166 66
804	"	E. Snyder.	"	83 33
805	"	N. C. Ricker	"	166 66
806	"	I. O. Baker	"	166 66
807	"	S. A. Forbes	"	83 33
808	"	C. W. Rolfe.	"	166 66
809	"	D. McIntosh	"	150 00
810	"	A. N. Talbot	"	166 66
811	"	A. W. Palmer.	"	166 66
812	"	F. F. Frederick.	"	158 33
813	"	S. W. Parr	"	166 66
814	"	H. J. Barton	"	166 66
815	"	Chas. M. Moss.	"	166 66
816	"	D. K. Dodge	"	166 66
817	"	L. P. Breckenridge.	"	166 66
818	"	D. W. Shea	"	166 66
819	"	David Kinley.	"	158 33
820	"	J. D. Bruner	"	150 00
821	"	Wm. J. Eckoff	"	150 00
822	"	Eugene Davenport.	"	83 33
823	"	Katherine Merrill	"	100 00
824	"	W. O. Krohn	"	150 00
825	"	Mrs. J. D. Bruner	"	133 33
826	"	H. E. Summers.	"	125 00
827	"	E. J. Townsend.	"	125 00
828	"	W. H. Van Dervoort	"	129 16
829	"	W. D. Pence.	"	104 16
830	"	E. B. Greene.	"	133 33
831	"	F. H. Dodge	"	133 33
832	"	Percy F. Bicknell.	"	125 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
833	Jan. 31	E. G. Howe .....	Salary for January, 1895.....	\$150 00
834	"	Anita M. Kellogg .....	" .....	110 00
835	"	A. H. Daniels .....	" .....	105 00
836	"	G. W. Parker .....	" .....	115 00
837	"	H. S. Grindley .....	" .....	100 00
838	"	T. A. Clark .....	" .....	110 00
839	"	C. D. McLane .....	" .....	105 00
840	"	Frank Smith .....	" .....	100 00
841	"	R. P. Smith .....	" .....	100 00
842	"	J. D. Phillips .....	" .....	80 00
843	"	C. B. Clark .....	" .....	75 00
844	"	W. E. Sandford .....	" .....	80 00
845	"	Alice M. Barber .....	" .....	65 00
846	"	H. S. Piatt .....	" .....	85 00
847	"	H. E. Parker .....	" .....	30 00
848	"	Chas. A. Gunn .....	" .....	75 00
849	"	Alfred H. White .....	" .....	75 00
850	"	William Esty .....	" .....	100 00
851	"	B. V. Swenson .....	" .....	85 00
852	"	A. R. Curtiss .....	" .....	75 00
853	"	Fred. A. Sager .....	" .....	80 00
854	"	L. W. Peabody .....	" .....	70 00
855	"	G. W. McCluer .....	" .....	15 00
856	"	Helen E. Butterfield .....	" .....	60 00
857	"	Peter Mogenson .....	" .....	75 00
858	"	R. Vial .....	" .....	65 00
859	"	E. J. Lake .....	" .....	45 00
860	"	J. G. Mosier .....	" .....	60 00
861	"	H. E. Reeves .....	" .....	10 00
862	"	Henry Jones .....	" .....	50 00
863	"	A. C. Burnham .....	" .....	80 00
864	"	Gertrude Shawham .....	" .....	20 00
865	"	N. A. Weston .....	" .....	80 00
866	"	Adelle Clendenin .....	" .....	60 00
867	"	Robt. A. Wood .....	" .....	40 00
868	"	G. E. Miller .....	" .....	40 00
869	"	Chas. F. Hottes .....	" .....	40 00
870	"	Ola C Woolsey .....	" .....	40 00
871	"	W. S. McGee .....	" .....	40 00
872	"	L. D. Brode .....	" .....	50 00
873	"	Marion Thompson .....	" .....	25 00
874	"	Chas. T. Wilder .....	" .....	30 00
875	"	Lillie Heath .....	" .....	45 00
876	"	Elva Blount .....	" .....	45 00
877	"	A. B. Baker .....	" .....	70 00
878	"	F. J. Foote .....	" .....	60 00
879	"	John F. Creek .....	" .....	50 00
880	"	C. A. Herme .....	" .....	30 00
881	"	L. G. Lathrop .....	" .....	30 00
882	"	J. Morrow .....	" .....	65 00
883	"	M. F. Lindsey .....	" .....	30 00
884	"	L. H. Walden .....	" .....	25 00
885	"	A. Iten .....	" .....	25 00
886	"	I. H. Allen .....	" .....	30 00
887	"	E. W. Justus .....	" .....	45 00
888	"	Philip Schwem .....	" .....	25 00
889	"	Chas. B. Ewalt .....	" .....	13 00
890	"	H. Ewalt .....	" .....	40 00
891	"	W. L. Pillsbury .....	" .....	100 00
892	"	H. C. Forbes .....	" .....	83 33
893	"	Mary J. Snyder .....	" .....	62 50
894	"	W. G. Johnson .....	" .....	100 00
895	"	C. A. Hart .....	" .....	62 50
896	"	Twin City Electric Co .....	Repairs .....	1 20
897	"	W. A. Olmsted .....	Slated cloth .....	9 84
898	"	Champaign County Printing Co .....	Printing and stationery .....	20 37
899	"	Lawton & Co .....	Simplex supplies .....	12 55
900	"	Office Specialty Mfg. Co. ....	Cases .....	8 75
901	Feb. 5	Maltby & Wallace Co .....	On heating contract .....	1,125 00
902	"	Lafayette Lumber Mfg Co. ....	On furniture contract .....	2,000 00
903	"	N. M. Graham .....	Expenses to Board meeting .....	25 50
904	"	Alex. McLean .....	" .....	31 34
905	"	R. P. Morgan .....	" .....	18 83
906	"	W. R. Howe .....	Hauling coal .....	187 14
907	"	Katharine Merrill .....	Expenses .....	1 50
908	"	Isaac Fielding .....	Postage stamps .....	10 00
909	"	W. O. Krohn .....	Expenses .....	16 99
910	"	Lydia M. Hart .....	Drawings .....	13 30

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
911	1895.			
912	Feb. 5	Western Union Telegraph Co.	Telegrams.....	\$17 67
913	"	American Express Co.	Freightage.....	23 51
914	"	McLean County Coal Co.	Coal.....	577 50
915	"	Odin Coal Co.	".....	231 80
916	"	Robinson & Burr.	Repairs.....	14 6
917	"	A. H. Andrews Co.	Desks.....	54 00
918	"	William Price	Glass, paint, etc.....	219 59
919	"	A. C. McClurg & Co.	Books.....	210 26
920	"	Am. Arch't and B'ld'g News Co.	Subscription.....	25 00
921	"	Blomgren Bros. & Co.	Half-tone.....	8 70
922	"	E. F. Cresson.....	Entomological News.....	1 00
923	"	John P. Morton & Co.	Books.....	2 72
924	"	Hanson Bros.	Cuts.....	1 75
925	"	C. A. Hart.....	Expenses.....	8 77
926	"	H. C. Forbes.....	Expenses.....	3 95
927	Feb. 15	The Western News Co.	Subscription.....	232 15
928	"	G. E. Stechert.....	Books.....	167 69
929	"	A. C. McClurg & Co.	".....	261 92
930	"	The Brickbuilder Pub. Co.	".....	10 50
931	"	Houghton, Mifflin & Co.	".....	25 00
932	"	The Municipal Eng'g Co.	Periodicals.....	1 25
933	"	Pantagraph Co.	Binding.....	46 16
934	"	Am. Public Health Association	Periodicals.....	18 00
935	"	Champaign County Herald.	Printing and envelopes.....	38 80
936	"	A. S. Draper.....	Expenses.....	80 59
937	"	N. W. Graham.....	Expense, to Board meeting.....	22 98
938	"	J. E. Armstrong.....	" " " ".....	23 25
939	"	F. M. McKay.....	" " " ".....	17 35
940	"	W. L. Pillsbury.....	" " " ".....	15 49
941	"	Henry J. Green.....	Salary, January, 1895.....	45 00
942	"	J. D. Bush.....	Janitors' supplies.....	10 20
943	"	Western Union Telegraph Co.	Telegrams.....	3 03
944	"	W. O. Krohn.....	Expense, visiting schools.....	39 62
945	"	T. A. Clark.....	".....	18 40
946	"	Charles T. Wilder.....	Taking photos.....	13 00
947	"	F. L. Bills.....	Postage.....	122 90
948	"	Pacific Express Co.	Expressage.....	16 79
949	"	American Express Co.	".....	36 05
950	"	Payroll of men, Jan., 1895.....	Labor.....	451 93
951	"	Payroll of students, Jan., 1895.....	".....	190 21
952	"	B. Westermann & Co.	Books.....	5 06
953	"	E. H. Sargent & Co.	Vials and corks.....	6 60
954	"	L. S. Foster.....	Books.....	3 00
955	"	Blomgren Bros. & Co.	Photos.....	1 62
956	"	S. R. Roberts.....	Manual of Conchology.....	6 00
957	"	Science.....	Subscription.....	5 00
958	"	L. V. Manspeaker.....	Lamp, chimneys, etc.....	8 20
959	"	Keen & DeLug.....	Letter book.....	2 50
960	"	Henry R. Worthington.....	Meter, coupling, etc.....	46 82
961	"	Engineering-Mechanics.....	Subscription.....	1 80
962	"	Hartford Steam Boiler Inspection and Insurance Co.	Books.....	14 00
963	"	Crosby Str'm Gauge and Valve Co.	Drum, indicators, etc.....	149 51
964	"	W. W. Walls & Co.	Cement.....	5 25
965	"	Eimer & Amend.....	Chemical supplies.....	23 40
966	"	Soule Photograph Co.	Mounting photos.....	4 20
967	"	Bausch & Lomb Optical Co.	Microscope attachments.....	46 88
968	"	McLean County Coal Co.	Coal.....	327 45
969	"	T. R. White, Jr.	Gas, Dec., 1894, and Jan., 1895.....	307 20
970	"	George Besore.....	Lumber and coal.....	129 14
971	"	Twin City Electric Co.	Gas lights and tapers.....	1 45
972	"	C. J. Sabin.....	Coal.....	6 70
973	"	Electric Light and Power Co.	Power, January, 1895.....	36 83
974	"	E. G. Smith.....	Micrometer.....	4 94
975	"	I. O. Baker.....	Expenses, visiting schools.....	15 39
976	"	Charles W. Noble.....	Blue prints.....	31 32
977	Feb. 28	A. S. Draper.....	Salary for February, 1895.....	583 33
978	"	T. J. Burrill.....	".....	225 00
979	"	S. W. Shattuck.....	".....	166 66
980	"	E. Snyder.....	".....	83 33
981	"	N. C. Ricker.....	".....	166 66
982	"	I. O. Baker.....	".....	166 66
983	"	S. A. Forbes.....	".....	83 33
984	"	C. W. Rolfe.....	".....	166 66
985	"	D. McIntosh.....	".....	150 00
986	"	A. N. Talbot.....	".....	166 66
	"	A. W. Palmer.....	".....	166 66

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1895.				
987	Feb. 28	F. F. Frederick.....	Salary for February, 1895.....	\$158 33
988	"	S. W. Parr.....	"	166 66
999	"	H. J. Barton.....	"	66 66
990	"	Chas. M. Moss.....	"	166 66
991	"	D. K. Dodge.....	"	166 66
992	"	L. P. Breckenridge.....	"	166 66
993	"	D. W. Shea.....	"	166 66
994	"	David Kinley.....	"	166 66
995	"	J. D. Bruner.....	"	150 00
996	"	Wm. J. Eckoff.....	"	150 00
997	"	Eugene Davenport.....	"	83 33
998	"	Katharine Merrill.....	"	100 00
999	"	W. O. Krohn.....	"	150 00
1000	"	Mrs. J. D. Bruner.....	"	133 33
1001	"	H. E. Summers.....	"	125 00
1002	"	E. J. Townsend.....	"	125 00
1003	"	W. H. Van Dervoort.....	"	129 16
1004	"	W. D. Pence.....	"	104 16
1005	"	F. B. Greene.....	"	133 33
1006	"	F. H. Dodge.....	"	133 33
1007	"	Percy F. Bicknell.....	"	125 00
1008	"	E. G. Howe.....	"	150 00
1009	"	Anita M. Kellogg.....	"	110 00
1010	"	A. H. Daniels.....	"	105 00
1011	"	G. W. Parker.....	"	115 00
1012	"	H. S. Grindley.....	"	100 00
1013	"	T. A. Clark.....	"	110 00
1014	"	C. D. McLane.....	"	105 00
1015	"	Frank Smith.....	"	100 00
1016	"	R. P. Smith.....	"	100 00
1017	"	J. D. Phillips.....	"	80 00
1018	"	C. B. Clark.....	"	75 00
1019	"	W. E. Sandford.....	"	80 00
1020	"	Alice M. Barber.....	"	65 00
1021	"	H. S. Piatt.....	"	85 00
1022	"	H. E. Parker.....	"	30 00
1023	"	Chas. A. Gunn.....	"	75 00
1024	"	Alfred H. White.....	"	75 00
1025	"	William Esty.....	"	100 00
1026	"	B. V. Swenson.....	"	85 00
1027	"	A. R. Curtiss.....	"	75 00
1028	"	Fred A. Sager.....	"	80 00
1029	"	L. W. Peabody.....	"	70 00
1030	"	G. W. McCluer.....	"	15 00
1031	"	Helen E. Butterfield.....	"	60 00
1032	"	Peter Mogenson.....	"	75 00
1033	"	P. Vial.....	"	55 00
1034	"	E. J. Lake.....	"	45 00
1035	"	J. G. Mosier.....	"	60 00
1036	"	H. E. Reeves.....	"	10 00
1037	"	Henry Jones.....	"	50 00
1038	"	A. C. Burnham.....	"	80 00
1039	"	Gertrude Shawhan.....	"	20 00
1040	"	N. A. Weston.....	"	80 00
1041	"	Adelle Clendenin.....	"	60 00
1042	"	Robt. A. Wood.....	"	40 00
1043	"	G. C. Miller.....	"	40 00
1044	"	Chas. F. Hottes.....	"	40 00
1045	"	Ola C Woolsey.....	"	40 00
1046	"	W. S. McGee.....	"	40 00
1047	"	L. D. Brode.....	"	50 00
1048	"	Marion Thompson.....	"	25 00
1049	"	Chas. T. Wilder.....	"	30 00
1050	"	David Kinley.....	"	41 68
1051	"	Lillie Heath.....	"	45 00
1052	"	Elva Blount.....	"	45 00
1053	"	A. B. Baker.....	"	70 00
1054	"	F. J. Foote.....	"	60 00
1055	"	John F. Creek.....	"	50 00
1056	"	C. A. Herme.....	"	30 00
1057	"	L. G. Lathrop.....	"	30 00
1058	"	J. Morrow.....	"	65 00
1059	"	M. T. Lindsey.....	"	30 00
1060	"	L. H. Walden.....	"	25 00
1061	"	A. Iten.....	"	25 00
1062	"	I. H. Allen.....	"	30 00
1063	"	E. W. Justus.....	"	45 00
1064	"	Philip Scweme.....	"	25 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1065	Feb. 25	Chas. B. Ewalt.	Salary for February, 1895.	\$13 00
1066	"	L. P. Breckenridge	Salary for 3 months to date	62 50
1067	"	W. L. Pillsbury	February, 1895.	100 00
1068	"	S. W. Shattuck	3 months to date	150 00
1069	"	H. C. Forbes.	February, 1895.	83 33
1070	"	Mary J. Snyder	"	62 50
1071	"	W. G. Johnson	"	100 00
1072	"	C. A. Hart.	"	62 50
1073	"	Henry J. Green.	"	45 00
1074	"	H. Ewalt.	"	40 00
1075	"	John Mayer.	"	20 00
1076	"	E. G. Howe	Expenses.	19 44
1077	"	Central Electric Co.	Apparatus.	12 46
1078	"	Western Electric Co.	"	15 40
1079	"	American Machinist	Subscription	3 00
1080	"	Price & Sandford	Oils.	1 50
1081	"	F. F. & W. L. Roots.	Curtain poles.	7 60
1082	"	The Kariher Coöperation Co.	Matches.	2 25
1083	"	Emil Greiner	Apparatus.	4 00
1084	"	G. Cramer	Photo-plates.	6 55
1085	"	W. H. Beckwith.	Twine.	1 20
1086	"	J. R. Nelson	Repairing clock.	2 50
1087	"	Bullard & Gormley Co.	Hooks	4 60
1088	"	Champaign County Ptg. Co.	Printing	10 55
1089	"	Narragansett Machine Co.	Spirometer.	9 00
1090	"	Kirkpatrick & Barricklow	Toweling, racks, etc.	30 20
1091	"	Orr & Lockett Hardware Co.	Hardware	18 05
1092	"	Manning, Maxwell & Moore	Pulley and shaft.	4 25
1093	"	James B. Clow & Sons.	Pipe and fittings.	56 77
1094	"	Whitall, Tatum & Co.	Jars, etc.	7 54
1095	"	John Maguire	Printing.	4 35
1096	"	D. H. Lloyde & Son	Stationery.	6 40
1097	"	Treas. Ento. Soc'y of Ontario	Subscription	1 00
1098	"	A. C. McClurg & Co.	Stationery.	108 12
1099	"	W. H. Lowdermilk Co.	Books.	4 00
1100	"	G. E. Stechert.	"	625 92
1101	"	Yeager & Schultz.	Amount due on contract	5,000 00
1102	"	M. B. Suezey	Dumb waiter.	70 00
1103	"	Malthy & Wallace Co	Repairs, etc.	130 87
1104	"	G. L. Andrews.	Book	5 00
1105	"	T. J. Burrill.	Expense to Havana.	4 85
1106	"	Franklin Eng. & Elect'g Co.	Cuts	18 70
1107	"	H. C. Forbes.	Expenses.	2 95
1108	"	Chas. T. Wilder.	Making negatives, etc.	13 40
1109	"	A. A. Beal & Co.	Plate	3 16
1110	"	Office Specialty Mfg. Co.	Cabinet perforator.	1 50
1111	"	G. E. Stechert.	Books.	512 94
1112	"	A. C. McClurg & Co.	"	110 45
1113	"	Katharine Merrill.	"	2 25
1114	"	S. A. Forbes.	Expense.	42 03
1115	"	C. A. Hart.	"	10 43
1116	"	Lydia M. Hart.	Drawings.	7 30
1117	"	F. L. Bills.	Postage.	33 00
1118	"	Alex. McLean	Expenses to Board meeting	13 38
1119	"	W. R. Howe	Drayage	168 52
1120	"	A. J. Williamson	Negatives	2 50
1121	"	E. R. Dunlap.	Labor.	6 92
1122	"	N. W. Davis	Sand.	3 75
1123	"	E. J. Townsend.	Expense visiting schools	25 07
1124	"	H. J. Barton.	"	36 08
1125	"	A. W. Palmer	"	21 08
1126	"	Bausch & Lomb Optical Co.	Apparatus.	88 04
1127	"	Borden Selleck Co.	Scale	25 00
1128	"	P. P. Caproni & Bro	Parthenon slabs.	30 60
1129	"	Eimer & Amend.	Apparatus.	21 25
1130	"	The Western News Co.	Subscriptions	11 30
1131	"	Am. Institute Electrical Eng.	Books.	19 25
1132	"	W. A. Olmsted	Apparatus.	9 54
1133	"	Hornstein Bros.	Printing, etc.	48 00
1134	"	J. W. Butler Paper Co.	Envelopes	2 33
1135	"	Champaign Co. Printing Co.	Printing circulars.	15 40
1136	"	<i>The Illini</i>	Subscription.	128 57
1137	"	Franklin Eng. and Electro. Co.	Certificates.	75 00
1138	"	W. J. Eckoff.	Expenses visiting schools	19 23
1139	"	McLean Co. Coal Co.	Coal.	371 00
1140	"	A. W. Palmer & S. W. Parr.	Analyses of water.	110 00
1141	"	J. W. Seavir.	Charts	10 00
1142	"	A. P. Cunningham & Son.	Stationery, etc.	14 95

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1143	Feb. 28	Ginn & Co.....	Journal of Morphology.....	9 00
1144	"	H. Swannell.....	Laboratory supplies.....	24 02
1145	"	Eberbach Drug and Chem. Co.	Boxes.....	19 80
1146	"	Fuller & Fuller Co.....	Chemical supplies.....	27 67
1147	"	Architectural Dept. Univ. of Ill	Labor and material.....	370 78
1148	"			388 74
1149	"	Chemical Dept. Univ. of Ill.....	Chemical supplies.....	3 23
1150	"	Mechan' l.....	Labor, material and power.....	320 67
1151	March 15	N. W. Graham.....	Expenses to Board meeting.....	39 93
1152	"	N. B. Morrison.....	" " " ".....	61 90
1153	"	R. P. Morgan.....	" " " ".....	33 08
1154	"	J. E. Armstrong.....	" " " ".....	36 33
1155	"	Alex. McLean.....	" " " ".....	53 82
1156	"	S. A. Bullard.....	" " " ".....	24 50
1157	"	I. S. Raymond.....	" " " ".....	33 43
1158	"	S. M. Inglis.....	" " " ".....	3 00
1159	"	C. W. Spalding.....	Expenses.....	112 69
1160	"	C. M. Moss.....	Expenses visiting schools.....	15 14
1161	"	E. B. Greene.....	" " " ".....	2 50
1162	"	T. A. Clark.....	" " " ".....	30 93
1163	"	H. B. Gurler.....	Expenses and lectures.....	66 53
1164	"	Chas. H. Besly & Co.....	Hardware.....	2 36
1165	"	G. W. Bullard.....	Architect's fees.....	1,044 64
1166	"	Isaac Fielding.....	Postage.....	10 00
1167	"	F. L. Bills.....	Making screens.....	186 40
1168	"	Mary E. Smith.....	Telegrams.....	6 00
1169	"	Western Union Telegraph Co.....	Expenses.....	3 34
1170	"	T. J. Burrill.....	Salary February, 1895.....	10 52
1171	"	S. W. Shattuck.....	Freightage.....	21 36
1172	"	Mayme Hill.....	Payroll of men February, 1895.....	10 00
1173	"	American Express Co.....	Labor.....	16 20
1174	"	Payroll of students Feb., 1895.....		371 70
1175	March 30	A. S. Draper.....	Salary for March, 1895.....	194 48
1176	"	T. J. Burrill.....	" " " ".....	583 33
1177	"	S. W. Shattuck.....	" " " ".....	225 00
1178	"	E. Snyder.....	" " " ".....	166 66
1179	"	N. C. Ricker.....	" " " ".....	83 33
1180	"	I. O. Baker.....	" " " ".....	166 66
1181	"	S. A. Forbes.....	" " " ".....	83 33
1182	"	C. W. Rolfe.....	" " " ".....	166 66
1183	"	D. McIntosh.....	" " " ".....	150 00
1184	"	A. N. Talbot.....	" " " ".....	166 66
1185	"	A. W. Palmer.....	" " " ".....	166 66
1186	"	F. F. Frederick.....	" " " ".....	158 33
1187	"	S. W. Parr.....	" " " ".....	166 66
1188	"	H. J. Barton.....	" " " ".....	166 66
1189	"	Chas. M. Moss.....	" " " ".....	166 66
1190	"	D. K. Dodge.....	" " " ".....	166 66
1191	"	L. P. Breckenridge.....	" " " ".....	166 66
1192	"	D. W. Shea.....	" " " ".....	166 66
1193	"	David Kinley.....	" " " ".....	166 66
1194	"	J. D. Bruner.....	" " " ".....	150 00
1195	"	Wm. J. Eckoff.....	" " " ".....	150 00
1196	"	Eugene Davenport.....	" " " ".....	83 33
1197	"	Katharine Merrill.....	" " " ".....	100 00
1198	"	W. O. Krohn.....	" " " ".....	150 00
1199	"	Mrs. J. D. Bruner.....	" " " ".....	133 33
1200	"	H. E. Summers.....	" " " ".....	125 00
1201	"	E. J. Townsend.....	" " " ".....	125 00
1202	"	W. H. VanDervoort.....	" " " ".....	129 16
1203	"	W. D. Pence.....	" " " ".....	104 16
1204	"	E. B. Greene.....	" " " ".....	133 33
1205	"	F. H. Dodge.....	" " " ".....	133 33
1206	"	Percy F. Bicknell.....	" " " ".....	125 00
1207	"	E. G. Howe.....	" " " ".....	150 00
1208	"	Anita M. Kellogg.....	" " " ".....	110 00
1209	"	A. H. Daniels.....	" " " ".....	105 00
1210	"	G. W. Parker.....	" " " ".....	115 00
1211	"	H. S. Grindley.....	" " " ".....	100 00
1212	"	T. A. Clark.....	" " " ".....	110 00
1213	"	C. D. McLane.....	" " " ".....	105 00
1214	"	Frank Smith.....	" " " ".....	100 00
1215	"	R. P. Smith.....	" " " ".....	100 00
1216	"	J. D. Phillips.....	" " " ".....	80 00
1217	"	C. B. Clarke.....	" " " ".....	75 00
1218	"	W. E. Sandford.....	" " " ".....	80 00
1219	"	Alice M. Barber.....	" " " ".....	65 00
1220	"			



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1221	March 30	H. S. Piatt.....	Salary for March, 1895.....	\$85 00
1222	"	H. E. Parker.....	" ".....	30 00
1223	"	Chas. A. Gunn.....	" ".....	75 00
1224	"	Alfred H. White.....	" ".....	75 00
1225	"	William Esty.....	" ".....	100 00
1226	"	B. V. Swenson.....	" ".....	85 00
1227	"	A. R. Curtiss.....	" ".....	75 80
1228	"	Fred. A. Sager.....	" ".....	80 00
1229	"	L. W. Peabody.....	" ".....	70 00
1230	"	G. W. McCluer.....	" ".....	15 00
1231	"	Helen E. Butterfield.....	" ".....	60 00
1232	"	Peter Mogenson.....	" ".....	75 00
1233	"	R. Vial.....	" ".....	60 00
1234	"	E. J. Lake.....	" ".....	45 00
1235	"	J. G. Mosier.....	" ".....	60 00
1236	"	H. E. Reeves.....	" ".....	10 00
1237	"	Henry Jones.....	" ".....	50 00
1238	"	A. C. Burnham.....	" ".....	80 00
1239	"	Gertrude Shawhan.....	" ".....	20 00
1240	"	N. A. Weston.....	" ".....	80 00
1241	"	Adelle Clendenin.....	" ".....	60 00
1242	"	Robert A. Wood.....	" ".....	40 00
1243	"	G. C. Miller.....	" ".....	40 00
1244	"	Chas. F. Hottes.....	" ".....	40 00
1245	"	Ola C. Woolsey.....	" ".....	40 00
1246	"	W. S. McGee.....	" ".....	40 00
1247	"	L. D. Brode.....	" ".....	50 00
1248	"	Marion Thompson.....	" ".....	25 00
1249	"	Chas. T. Wilder.....	" ".....	30 00
1250	"	W. L. Pillsbury.....	" ".....	100 00
1251	"	Lillie Heath.....	" ".....	45 00
1252	"	Elva Blount.....	" ".....	45 00
1253	"	A. B. Baker.....	" ".....	70 00
1254	"	F. J. Foote.....	" ".....	60 00
1255	"	John F. Creek.....	" ".....	50 00
1256	"	C. A. Herme.....	" ".....	30 00
1257	"	L. G. Lathrop.....	" ".....	30 00
1258	"	J. Morrow.....	" ".....	65 00
1259	"	M. T. Lindsey.....	" ".....	30 00
1260	"	L. H. Walden.....	" ".....	25 00
1261	"	A. Iten.....	" ".....	25 00
1262	"	I. H. Allen.....	" ".....	30 00
1263	"	E. W. Justus.....	" ".....	45 00
1264	"	Philip Schwem.....	" ".....	25 00
1265	"	Chas. B. Ewalt.....	" ".....	13 00
1266	"	H. C. Forbes.....	" ".....	83 33
1267	"	Mary J. Snyder.....	" ".....	62 50
1268	"	W. G. Johnson.....	" ".....	100 00
1269	"	C. A. Hart.....	" ".....	62 50
1270	"	C. W. Foster.....	Salary for three months, to date.....	100 00
1271	"	The <i>Technograph</i> .....	Advertising.....	100 00
1272	"	Standard Oil Co.....	Oil.....	23 13
1273	"	J. Hamilton & Son.....	Lumber.....	82 70
1274	"	Jones & Laughlins.....	Iron.....	67 70
1275	"	Hyden Bros.....	Lumber.....	26 60
1276	April 15	The Decatur Coal Co.....	Coal.....	84 54
1277	"	Electric Lighting and Power Co.....	Power.....	74 83
1278	"	Orr & Lockett Hardware Co.....	Hardware.....	19 80
1279	"	Howe, Brown & Co.....	Tools.....	40 61
1280	"	T. H. Trevett.....	Hardware.....	11 25
1281	"	Sheldon Brick Co.....	Brick.....	18 15
1282	"	Albany Perf'd Wr'p'g Pap'r Co.....	Paper.....	16 00
1283	"	C. H. Baddeley.....	Lamps, etc.....	14 25
1284	"	A. M. Paige.....	Tuning pianos.....	10 00
1285	"	Western Electric Co.....	Wire, lamps, etc.....	64 63
1286	"	Inland Publishing Co.....	Subscription.....	8 75
1287	"	American Printing Association.....	Plates.....	33 50
1288	"	A. C. McClurg & Co.....	Books.....	62 52
1289	"	Am. Society of Civil Eng'n'g.....	Transactions.....	6 98
1290	"	Richard, Kiny & Co.....	Apparatus, etc.....	573 26
1291	"	McIntosh Bat'y and Optical Co.....	Watch.....	11 10
1292	"	Alfred C. Kempf.....	Magnesia covering.....	6 12
1293	"	Office Specialty Co.....	Furniture, etc.....	19 80
1294	"	Ripley-Dietrick Supply Co.....	Pipe and fittings.....	12 53
1295	"	C. T. Wilder.....	Work in laboratory, etc.....	38 70
1296	"	Ginn & Company.....	Books.....	3 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1297	April 15	The Edwards & Docker Co.....	American Naturalist.....	\$4 00
1298	"	Thomas Naughton.....	Photographs.....	4 10
1299	"	E. H. Sargent & Co.....	Chemical supplies.....	8 33
1300	"	J. Manz & Co.....	Plates.....	4 00
1301	"	N. W. Graham.....	Expense to Board and Com. meet'gs	29 09
1302	"	S. W. Shattuck.....	Petty expenses, 3 mos., March, '95..	42 24
1303	"	H. I. Green.....	Salary, March, 1895.....	45 00
1304	"	John Mayer.....	Salary, February, 1895.....	20 00
1305	"	N. C. Ricker.....	Expenses.....	4 13
1306	"	W. R. Howe.....	Drayage.....	39 36
1307	"	Steamer, Strassburg.....	General average charges.....	11 94
1308	"	E. H. Renner & Bro.....	Carriages.....	10 00
1309	"	W. H. VanDervort.....	Expenses.....	7 75
1310	"	Anita M. Kellogg.....	".....	1 85
1311	"	T. A. Clark.....	" visiting schools.....	25 51
1312	"	T. J. Burrill.....	".....	2 87
1313	"	C. W. Rolfe.....	".....	7 50
1314	"	C. W. Foster.....	Music fees.....	24 00
1315	"	Eugene Davenport.....	Expenses.....	2 60
1316	"	Mayme Hill.....	Salary, March, 1895.....	10 00
1317	"	Lydia M. Hart.....	Drawings.....	40 45
1318	"	F. L. Bills.....	Postage.....	98 00
1319	"	Pacific Express Co.....	Freightage.....	16 04
1320	"	American Express Co.....	".....	20 70
1321	"	C. C. C. & St. L. R'y Co.....	".....	27 61
1322	"	Wabash R. R. Co.....	".....	7 75
1323	"	Illinois Central R. R. Co.....	".....	51 81
1324	"	Pay roll of men, March, 1895.....	Labor.....	367 46
1325	"	Pay roll of students, March, 1895	".....	187 44
1326	April 30	A. S. Draper.....	Salary for April, 1895.....	583 33
1327	"	T. J. Burrill.....	".....	225 00
1328	"	S. W. Shattuck.....	".....	166 66
1329	"	E. Snyder.....	".....	83 33
1330	"	N. C. Ricker.....	".....	166 66
1331	"	I. O. Baker.....	".....	166 66
1332	"	S. A. Forbes.....	".....	83 33
1333	"	C. W. Rolfe.....	".....	166 66
1334	"	D. McIntosh.....	".....	150 00
1335	"	A. N. Talbot.....	".....	166 66
1336	"	A. W. Palmer.....	".....	166 66
1337	"	F. F. Frederick.....	".....	158 33
1338	"	S. W. Parr.....	".....	166 66
1339	"	H. J. Barton.....	".....	166 66
1340	"	Charles M. Moss.....	".....	166 66
1341	"	D. K. Dodge.....	".....	166 66
1342	"	L. P. Breckenridge.....	".....	166 66
1343	"	D. W. Shea.....	".....	166 66
1344	"	David Kinley.....	".....	166 66
1345	"	J. D. Bruner.....	".....	150 00
1346	"	William J. Eckoff.....	".....	150 00
1347	"	Eugene Davenport.....	".....	83 33
1348	"	Katharine Merrill.....	".....	100 00
1349	"	W. O. Krohn.....	".....	150 00
1350	"	Mrs. J. D. Bruner.....	".....	133 33
1351	"	H. E. Summers.....	".....	125 00
1352	"	E. J. Townsend.....	".....	125 00
1353	"	W. H. VanDervort.....	".....	129 16
1354	"	W. D. Pence.....	".....	104 16
1355	"	E. B. Greene.....	".....	133 33
1356	"	F. H. Dodge.....	".....	133 33
1357	"	Percy F. Bicknell.....	".....	125 00
1358	"	E. G. Howe.....	".....	150 00
1359	"	Anita M. Kellogg.....	".....	110 00
1360	"	A. H. Daniels.....	".....	105 00
1361	"	G. W. Parker.....	".....	115 00
1362	"	H. S. Grindley.....	".....	100 00
1363	"	T. A. Clark.....	".....	110 00
1364	"	C. D. McLane.....	".....	105 00
1365	"	Frank Smith.....	".....	100 00
1366	"	R. P. Smith.....	".....	100 00
1367	"	G. P. Clinton.....	".....	83 33
1368	"	J. D. Phillips.....	".....	80 00
1369	"	C. B. Clark.....	".....	75 00
1370	"	W. E. Sandford.....	".....	80 00
1371	"	Alice M. Barber.....	".....	65 00
1372	"	H. S. Piatt.....	".....	85 00
1373	"	H. E. Parker.....	".....	30 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1374	April 30	Chas. A. Gunn.....	Salary for April, 1895.....	\$75 00
1375	"	Alfred H. White.....	" ".....	75 00
1376	"	William Esty.....	" ".....	100 00
1377	"	B. V. Swenson.....	" ".....	85 00
1378	"	A. R. Curtiss.....	" ".....	75 00
1379	"	Fred. A. Sager.....	" ".....	80 00
1380	"	L. W. Peabody.....	" ".....	70 00
1381	"	G. W. McCluer.....	" ".....	15 00
1382	"	Helen E. Butterfield.....	" ".....	60 00
1383	"	Peter Mogensén.....	" ".....	75 00
1384	"	R. Vial.....	" ".....	60 00
1385	"	E. J. Lake.....	" ".....	45 00
1386	"	J. G. Mosier.....	" ".....	60 00
1387	"	H. E. Reeves.....	" ".....	10 00
1388	"	Henry Jones.....	" ".....	50 00
1389	"	A. C. Burnham.....	" ".....	80 00
1390	"	Gertrude Shawhan.....	" ".....	20 00
1391	"	N. A. Weston.....	" ".....	80 00
1392	"	Adelle Clendenin.....	" ".....	60 00
1393	"	Robt. A. Wood.....	" ".....	40 00
1394	"	G. C. Miller.....	" ".....	40 00
1395	"	Chas. F. Hottes.....	" ".....	40 00
1396	"	Ola C. Woolsey.....	" ".....	40 00
1397	"	W. S. McGee.....	" ".....	40 00
1398	"	Marion Thompson.....	" ".....	25 00
1399	"	Chas. T. Wilder.....	" ".....	30 00
1400	"	L. D. Brode.....	" ".....	50 00
1401	"	W. L. Pillsbury.....	" ".....	100 00
1402	"	Lillie Heath.....	" ".....	45 00
1403	"	Elva Blount.....	" ".....	45 00
1404	"	A. B. Baker.....	" ".....	70 00
1405	"	F. J. Foote.....	" ".....	60 00
1406	"	H. I. Green.....	" ".....	45 00
1407	"	John F. Creek.....	" ".....	50 00
1408	"	L. G. Lathrop.....	" ".....	30 00
1409	"	J. Morrow.....	" ".....	65 00
1410	"	M. F. Lindsey.....	" ".....	30 00
1411	"	L. H. Walden.....	" ".....	25 00
1412	"	A. Iten.....	" ".....	25 00
1413	"	I. H. Allen.....	" ".....	30 00
1414	"	E. W. Justus.....	" ".....	45 00
1415	"	Philip Schwem.....	" ".....	25 00
1416	"	Chas. B. Ewalt.....	" ".....	13 00
1417	"	H. C. Forbes.....	" ".....	83 33
1418	"	Mary J. Snyder.....	" ".....	62 50
1419	"	W. G. Johnson.....	" ".....	100 00
1420	"	C. A. Hart.....	" ".....	62 50
1421	"	C. M. Moss.....	" ".....	10 92
1422	"	A. J. Herbst.....	Ribbons for typewriter.....	7 85
1423	"	T. J. Burrill.....	Expenses.....	15 35
1424	"	Heinly & Pureell.....	Hotel charges.....	22 00
1425	"	Central Electric Co.....	Apparatus.....	14 26
1426	"	G. C. Willis.....	Cheese cloth, etc.....	4 03
1427	"	C. T. Wilder.....	Negative and services.....	20 00
1428	"	New York Entom. Society.....	Subscription.....	2 00
1429	"	Henry C. McCook.....	Books.....	10 00
1430	"	Franklin Eng. Electotyping Co.....	Half-tone book.....	12 99
1431	"	Photo Engraving Co.....	Plates.....	4 00
1432	"	H. W. Rokker.....	Vol. 2. Ornithology of Illinois.....	667 53
1433	"	H. C. Forbes.....	Expenses.....	6 46
1434	"	Rand, McNally Co.....	Map.....	10 50
1435	"	Mittendorf & Kiler.....	Tables, etc.....	8 75
1436	"	Bausch & Lomb Optical Co.....	Laboratory supplies.....	29 13
1437	"	E. H. Sargent & Co.....	Laboratory supplies.....	8 80
1438	"	F. L. Bills.....	Postage.....	55 50
1439	"	S. A. Forbes.....	Expenses.....	72 32
1440	"	W. G. Johnson.....	Books.....	3 00
1441	"	K. F. Koehler's Antiquarium.....	Book.....	2 88
1442	"	R. Friedlander & Son.....	Books.....	250 54
1443	"	Wm. Price.....	Finishing case.....	3 70
1444	"	W. R. Howe.....	Drayage.....	11 16
1445	"	Mary H. Steele.....	Music fees.....	60 00
1446	"	William Esty.....	Postage.....	1 84
1447	"	H. J. Barton.....	Expense visiting schools.....	12 77
1448	"	W. L. Pillsbury.....	Expenses.....	15 60
1449	"	Alex. McLean.....	" ".....	45 17
1450	"	J. E. Armstrong.....	" ".....	28 06
1451	May 15	Western Bank Note & Eng. Co.	Diplomas.....	93 75

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1452	1895.			
1453	May 15	The Smith Premier Typew'r Co.	Typewriter supplies.....	\$5 50
1454	"	C. J. Sabin.....	Coal.....	6 70
1455	"	J. W. Shuck.....	Ladder, etc.....	4 10
1456	"	The Yale & Towne Mfg Co.....	Blank keys.....	3 26
1457	"	Hamilton & Russell.....	Hardware.....	2 00
1458	"	Samuel Harris & Co.....	Machinists supplies.....	10 49
1459	"	Brown & Sharpe Mfg. Co.....	Bevel gear cutter.....	4 56
1460	"	The Power Publishing Co.....	Subscription.....	1 80
1461	"	J. H. Bainum.....	Plastering.....	27 18
1462	"	The John Church Co.....	Music.....	1 38
1463	"	Crane Company.....	Pipe and fittings.....	8 00
1464	"	Chas. H. Besly & Co.....	Aluminum.....	2 00
1465	"	Goodyear Rubber Co.....	Rubber tubing.....	17 47
1466	"	Henry Heil Chemical Co.....	Chemical supplies.....	40 06
1467	"	The Kariher Cooper'n Groc. Co.	Soap, matches.....	4 25
1468	"	E. Miller & Son.....	Crash.....	5 06
1469	"	E. H. Renner & Bro.....	Carriage.....	5 00
1470	"	A. S. Cameron St. Pump W'ks.	Valves.....	1 30
1471	"	B. Zelle.....	Rent.....	17 50
1472	"	Gerts, Lumbard & Co.....	Brooms.....	5 70
1473	"	C. T. Busch.....	Towel racks.....	1 85
1474	"	Vane-Calvert Paint Co.....	Paint.....	7 80
1475	"	Utica Steam Gage Co.....	Gages.....	10 00
1476	"	Quincy Show Case Works.....	Cases.....	43 80
1477	"	Western Electric Co.....	Wire.....	77 00
1478	"	Maltby & Wallace Co.....	Gas contract, etc.....	51 35
1479	"	Edwin Hunt's Sons.....	Hardware.....	12 75
1480	"	Bacon, Mittendorf & Hall.....	Shades.....	55 15
1481	"	Augustine & Co.....	Trees.....	9 34
1482	"	Chas. K. Worthen.....	Mounting a bird.....	2 25
1483	"	F. H. Dodge.....	Camera and outfit.....	26 00
1484	"	A. A. Beal & Co.....	Half-tone plates.....	10 50
1485	"	The Nautilus.....	Subscription.....	1 00
1486	"	McMillan & Co.....	Nature.....	6 00
1487	"	Mayme Hill.....	Salary for April, 1895.....	10 00
1488	"	Western Union Telegraph Co.....	Telegrams.....	15 26
1489	"	W. L. Pillsbury.....	Expenses.....	43 79
1490	"	T. J. Burrill.....	Expenses.....	25 69
1491	"	W. O. Krohn.....	Expenses visiting schools.....	2 55
1492	"	E. G. Howe.....	Expenses.....	2 72
1493	"	Katharine Merrill.....	.....	3 30
1494	"	Lydia M. Hart.....	Drawings and expenses.....	73 31
1495	"	C. A. Hart.....	.....	21 97
1496	"	Bernard Quaritch.....	Books.....	66 96
1497	"	Jessie A. Griswold.....	Typewriting.....	17 25
1498	"	Isaac Fielding.....	Postage.....	40 00
1499	"	F. L. Bills.....	Postage.....	58 80
1500	"	Payroll of men, April, 1895.....	Labor.....	503 13
1501	"	Payroll of students, April, 1895.....	Labor.....	195 88
1502	"	A. S. Draper.....	Salary for May, 1895.....	583 33
1503	"	T. J. Burrill.....	.....	225 00
1504	"	S. W. Shattuck.....	.....	166 66
1505	"	E. Snyder.....	.....	83 33
1506	"	N. C. Ricker.....	.....	166 66
1507	"	I. O. Baker.....	.....	166 66
1508	"	S. A. Forbes.....	.....	83 33
1509	"	C. W. Rolfe.....	.....	166 66
1510	"	D. McIntosh.....	.....	150 00
1511	"	A. N. Talbot.....	.....	166 66
1512	"	A. W. Palmer.....	.....	166 66
1513	"	F. F. Frederick.....	.....	158 33
1514	"	S. W. Parr.....	.....	166 66
1515	"	H. J. Barton.....	.....	166 66
1516	"	Chas. M. Moss.....	.....	166 66
1517	"	D. K. Dodge.....	.....	166 66
1518	"	L. P. Breckenridge.....	.....	166 66
1519	"	D. W. Shea.....	.....	166 66
1520	"	David Kinley.....	.....	166 66
1521	"	J. D. Bruner.....	.....	150 00
1522	"	Wm. J. Eckoff.....	.....	150 00
1523	"	Eugene Davenport.....	.....	83 33
1524	"	Katharine Merrill.....	.....	100 00
1525	"	W. O. Krohn.....	.....	150 00
1526	"	Mrs. J. D. Bruner.....	.....	133 33
1527	May 31	H. E. Summers.....	.....	125 00
1528	"	E. J. Townsend.....	.....	125 00
1529	"	W. H. Van Dervoort.....	.....	129 16
	"	W. D. Pence.....	.....	104 16

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1530	May 31	E. B. Greene .....	Salary for May, 1895.....	\$133 33
1531	"	F. H. Dodge .....	" .....	133 33
1532	"	Percy F. Bicknell .....	" .....	125 00
1533	"	E. G. Howe .....	" .....	150 00
1534	"	Anita M. Kellogg .....	" .....	110 00
1535	"	A. H. Daniels .....	" .....	105 00
1536	"	G. W. Parker .....	" .....	115 00
1537	"	H. S. Grindley .....	" .....	100 00
1538	"	T. A. Clark .....	" .....	110 00
1539	"	C. D. McLane .....	" .....	105 00
1540	"	Frank Smith .....	" .....	100 00
1541	"	R. P. Smith .....	" .....	100 00
1542	"	G. P. Clinton .....	" .....	83 33
1543	"	J. D. Phillips .....	" .....	80 00
1544	"	C. B. Clark .....	" .....	75 00
1545	"	W. E. Sandford .....	" .....	80 00
1546	"	Alice M. Barber .....	" .....	65 00
1547	"	H. S. Piatt .....	" .....	85 00
1548	"	H. E. Parker .....	" .....	30 00
1549	"	Chas. A. Gunn .....	" .....	75 00
1550	"	Alfred H. White .....	" .....	75 00
1551	"	William Esty .....	" .....	100 00
1552	"	B. V. Swenson .....	" .....	85 00
1553	"	A. R. Curtiss .....	" .....	75 00
1554	"	Fred A. Sager .....	" .....	80 00
1555	"	L. W. Peabody .....	" .....	70 00
1556	"	G. W. McCluer .....	" .....	15 00
1557	"	Helen E. Butterfield .....	" .....	60 00
1558	"	Peter Mogenson .....	" .....	75 00
1559	"	R. Vial .....	" .....	60 00
1560	"	E. J. Lake .....	" .....	45 00
1561	"	J. G. Mosier .....	" .....	60 00
1562	"	H. E. Reeves .....	" .....	10 00
1563	"	Henry Jones .....	" .....	50 00
1564	"	A. C. Burnham .....	" .....	80 00
1565	"	Gertrude Shawhan .....	" .....	20 00
1566	"	N. A. Weston .....	" .....	80 00
1567	"	Adelle Clendenin .....	" .....	60 00
1568	"	Robt. A. Wood .....	" .....	40 00
1569	"	G. C. Miller .....	" .....	40 00
1570	"	Chas. F. Hottes .....	" .....	40 00
1571	"	Ola C Woolsey .....	" .....	40 00
1572	"	W. S. McGee .....	" .....	40 00
1573	"	Marion Thompson .....	" .....	25 00
1574	"	L. D. Brode .....	" .....	50 00
1575	"	Lillie Heath .....	" .....	45 00
1576	"	Elva Blount .....	" .....	45 00
1577	"	A. B. Baker .....	" .....	70 00
1578	"	F. J. Foote .....	" .....	60 00
1579	"	H. I. Green .....	" .....	45 00
1580	"	John P. Creek .....	" .....	50 00
1581	"	L. G. Lathrop .....	" .....	30 00
1582	"	J. Morrow .....	" .....	65 00
1583	"	M. F. Lindsey .....	" .....	30 00
1584	"	L. H. Walden .....	" .....	25 00
1585	"	A. Iten .....	" .....	25 00
1586	"	I. H. Allen .....	" .....	30 00
1587	"	E. W. Justus .....	" .....	45 00
1588	"	Philip Schwehm .....	" .....	25 00
1589	"	George Harding .....	" .....	30 00
1590	"	Chas. B. Ewalt .....	" .....	13 00
1591	"	L. P. Breckenridge .....	Salary three months to date .....	62 50
1592	"	W. L. Pillsbury .....	" May, 1895 .....	100 00
1593	"	S. W. Shattuck .....	" three months to date .....	150 00
1594	"	C. A. Hart .....	" May, 1895 .....	62 50
1595	"	H. C. Forbes .....	" for May, 1895 .....	83 33
1596	"	Mary J. Snyder .....	" .....	62 50
1597	"	W. G. Johnson .....	" .....	100 00
1598	"	N. W. Graham .....	Expenses .....	18 97
1599	"	R. P. Morgan .....	" .....	30 08
1600	"	James E. Armstrong .....	" .....	10 00
1601	"	Richards & Co. .....	Chemical apparatus, etc .....	104 05
1602	"	Hornstein Bros .....	Printing .....	381 85
1603	"	<i>The Illini</i> .....	Subscriptions .....	228 56
1604	"	Frank Smith .....	Expenses .....	42 70
1605	"	McLean County Coal Co .....	Coal .....	708 63
1606	"	Isaac Fielding .....	Postage .....	10 00
1607	"	Crescent and Star Distilleries .....	Alcohol .....	17 65

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1608	May 31	F. L. Bills	Postage	\$80 90
1609	"	Lydia M. Hart	Drawings and expenses	34 65
1610	"	W. G. Johnson	Expenses	44 45
1611	"	American Express Co.	Expressage	9 95
1612	"	D. H. Lloyd & Son	Stationery	25 70
1613	"	Rait, Henderson & Co.	Subscription	3 50
1614	"	Hubbard & Sons	Repairs, etc.	2 50
1615	"	Geo. E. McHose	Boat hire	8 00
1616	"	National Typewriter Exchange	Supplies	2 35
1617	"	The Harris Publishing Co.	Fishes of North America	6 00
1618	"	S. E. Cassino	Naturalists' Directory	2 08
1619	"	Anita M. Kellogg	Expenses, music for gymnasium	12 60
1620	"	A. N. Talbot	Expenses	36 10
1621	"	W. A. Ohmsted	Supplies for laboratories	32 77
1622	"	Gutta Percha Rubber Mfg. Co.	Hose, etc.	50 00
1623	"	St. Louis Steel Wire Brush Co.	Sewer brush	4 50
1624	"	E. G. Smith	Charges on micrometer	2 50
1625	"	A. B. Dick & Co.	Mimeograph	22 50
1626	"	Eimer & Amend.	Apparatus, etc.	122 12
1627	"	Bausch & Lomb Optical Co.	Apparatus	345 88
1628	"	J. W. Butler Paper Co.	Photo mounting board	40 00
1629	"	Hohmann & Maurer Mfg. Co.	Vacuum gauge, etc.	19 20
1630	"	Library Bureau	Apparatus	5 00
1631	"	Knowlton & Bennett	Dusters	33 00
1632	"	Queen & Co.	Apparatus	5 00
1633	"	Wyman & Gordon	Vises	5 84
1634	"	C. H. Baddeley	Jars, etc.	2 45
1635	"	T. H. Trevett	Hardware, etc.	83 02
1636	"	G. E. Stechert	Books, etc.	160 59
1637	"	A. C. McClurg & Co.		393 14
1638	"	D. Appleton & Co.	American Cyclopaedia	6 00
1639	"	R. R. Bowker	American Literary Index	3 50
1640	"	Acad. of Natural Science, Phil.	Subscription	2 50
1641	"	Kasson & Palmer	"	2 00
1642	"	The Western News Co.	"	15 12
1643	"	Henry Trevett	Hardware	43 00
1644	"	C. T. Wilder	Services and expenses	30 70
1645	"	S. A. Forbes	Expenses	38 28
1646	"	R. Friedlander & Son	Books	191 00
1647	"	Chemical Department, U. of I.	Chemical supplies	44 14
1648	"	Mechanical Department, U. of I.	Labor, material, and power	322 23
1649	"	Architectural Department, U. of I.	"	43 21
1650	"		"	468 81
1651	June 15	La Fayette Lumber M'fg Co.	Balance on contract	2,783 34
1652	"	Yeager & Schultz	Payment on contract	580 97
1653	"	N. W. Graham	Expenses on Board meeting	22 62
1654	"	Alex. McLean	"	33 63
1655	"	N. B. Morrison	"	68 25
1656	"	S. A. Bullard	"	20 85
1657	"	R. P. Morgan	"	22 66
1658	"	I. S. Raymond	"	9 50
1659	"	J. E. Armstrong	"	17 76
1660	"	Military Band	Service at commencement	50 00
1661	"	T. J. Burrill	Expenses to Springfield	7 86
1662	"	W. L. Pillsbury	"	8 18
1663	"	A. S. Draper	Expenses	82 76
1664	"	H. J. Waters	"	54 10
1665	"	Adeline W. Rowley	"	9 30
1666	"	Asso. Am. Ag. Coll., Exp. Stat.	Station membership fee	10 00
1667	"	O. C. Horney	Expenses	14 70
1668	"	T. Bennett	"	13 87
1669	"	A. L. Pillsbury	Lettering diplomas and certificates	84 00
1670	"	E. G. Howe	Expenses	29 76
1671	"	Burrill & Davis	Windmill, etc.	140 05
1672	"	W. O. Hall	Putting down well, etc.	41 87
1673	"	Mayme Hill	Salary, May and June, 1895	20 00
1674	"	F. F. Frederick	Expenses	10 62
1675	"	W. H. VanDervoort	"	6 25
1676	"	Central Union Telephone Co.	Rent, 3 months to June 30, 1895	16 50
1677	"	Western Union Telegraph Co.	Telegrams	11 99
1678	"	F. L. Bills	Postage	38 05
1679	"	H. C. Forbes	Expenses	4 55
1680	"	Frank Smith	"	17 50
1681	"	Keen & DeLang	Copy book	2 50
1682	"	Franklin Engr. & Electro. Co.	Half-tones	11 21
1683	"	American Express Co.	Expressage	6 85
1684	"	Microscopical Publishing Co.	Subscription	6 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1685	1895. June 15	E. H. Sargent & Co.....	Laboratory supplies.....	\$8 75
1686	"	The Deming Co.....	Box pump.....	10 80
1687	"	Franklin Engr. & Electro. Co..	Half-tones.....	10 00
1688	"	Richards & Co.....	Gas regulator.....	2 35
1689	"	J. W. Franks & Sons.....	Printing.....	29 00
1690	"	Bacon, Mittendorf & Hall.....	Frame, etc.....	8 05
1691	"	Library Bureau.....	Library supplies.....	13 24
1692	"	Narragansett Machine Co.....	Gymnasium apparatus.....	26 56
1693	"	Schaeffer & Budenberg.....	Gauges, etc.....	32 20
1694	"	G. Cramer.....	Dry plates.....	5 76
1695	"	Standard Oil Co.....	Oil.....	9 86
1696	"	S. W. Parr.....	Expenses.....	8 50
1697	"	E. H. Renner & Bro.....	Carriage.....	3 00
1698	"	W. R. Howe.....	Drayage.....	35 37
1699	"	Payroll of men, May, 1895.....	Dabor.....	326 43
1700	"	Payroll of students, May, 1895..	Labor and scholarships.....	417 74
1701	July 1	A. S. Draper.....	Salary for June, 1895.....	583 33
1702	"	T. J. Burrill.....	"	225 00
1703	"	S. W. Shattuck.....	"	166 66
1704	"	E. Snyder.....	"	83 33
1705	"	N. C. Ricker.....	"	166 66
1706	"	I. O. Baker.....	"	166 66
1707	"	S. A. Forbes.....	"	83 33
1708	"	C. W. Rolfe.....	"	166 66
1709	"	D. McIntosh.....	"	150 00
1710	"	A. N. Talbot.....	"	166 66
1711	"	A. W. Palmer.....	"	166 66
1712	"	F. F. Frederick.....	"	158 33
1713	"	S. W. Parr.....	"	166 66
1714	"	H. J. Barton.....	"	166 66
1715	"	Chas. M. Moss.....	"	166 66
1716	"	D. K. Dodge.....	"	166 66
1717	"	L. P. Breckenridge.....	"	166 66
1718	"	D. O. Shea.....	"	166 66
1719	"	David Kinley.....	"	166 66
1720	"	J. D. Bruner.....	"	150 00
1721	"	Wm. J. Eckoff.....	"	150 00
1722	"	Eugene Davenport.....	"	83 33
1723	"	Katharine Merrill.....	"	100 00
1724	"	W. G. Krohn.....	"	150 00
1725	"	Mrs. J. D. Bruner.....	"	133 33
1726	"	H. E. Summers.....	"	125 00
1727	"	E. J. Townsend.....	"	125 00
1728	"	W. H. VanDervort.....	"	129 16
1729	"	W. D. Pence.....	"	104 16
1730	"	E. B. Greene.....	"	133 33
1731	"	F. H. Dodge.....	"	133 33
1732	"	Percy F. Bicknell.....	"	125 00
1733	"	E. G. Howe.....	"	150 00
1734	"	Anita M. Kellogg.....	"	110 00
1735	"	A. H. Daniels.....	"	105 00
1736	"	G. W. Parker.....	"	115 00
1737	"	H. S. Grindley.....	"	100 00
1738	"	T. A. Clark.....	"	110 00
1739	"	C. D. McLane.....	"	105 00
1740	"	Frank Smith.....	"	100 00
1741	"	R. P. Smith.....	"	100 00
1742	"	G. P. Clinton.....	"	83 33
1743	"	J. D. Phillips.....	"	80 00
1744	"	C. B. Clark.....	"	75 00
1745	"	W. E. Sandford.....	"	80 00
1746	"	Alice M. Barber.....	"	65 00
1747	"	H. S. Piatt.....	"	85 00
1748	"	H. E. Parker.....	"	30 00
1749	"	Chas. A. Gunn.....	"	75 00
1750	"	Alfred H. White.....	"	75 00
1751	"	William Esty.....	"	100 00
1752	"	B. V. Swenson.....	"	85 00
1753	"	A. R. Curtiss.....	"	75 00
1754	"	Fred A. Sager.....	"	80 00
1755	"	L. W. Peabody.....	"	70 00
1756	"	G. W. McCluer.....	"	15 00
1757	"	Helen E. Butterfield.....	"	60 00
1758	"	Peter Mogenson.....	"	75 00
1759	"	R. Vial.....	"	60 00
1760	"	E. J. Lake.....	"	45 00
1761	"	J. G. Mosier.....	"	60 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1762	July	1 H. E. Reeves.....	Salary for June, 1895.....	\$10 00
1763	"	Henry Jones.....	" " " " " " " "	50 00
1764	"	A. C. Burnham.....	" " " " " " " "	80 00
1765	"	Gertrude Shawhan.....	" " " " " " " "	20 00
1766	"	N. A. Weston.....	" " " " " " " "	80 00
1767	"	Adelle Clendenin.....	" " " " " " " "	60 00
1768	"	Robert A. Wood.....	" " " " " " " "	40 00
1769	"	G. C. Miller.....	" " " " " " " "	40 00
1770	"	Chas. F. Hottes.....	" " " " " " " "	40 00
1771	"	Ola C Woolsey.....	" " " " " " " "	40 00
1772	"	W. S. McGee.....	" " " " " " " "	40 00
1773	"	Marion Thompson.....	" " " " " " " "	25 00
1774	"	Frank Smith.....	" " " " " " " "	100 00
1775	"	C. A. Hart.....	" " " " " " " "	62 50
1776	"	Lillie Heath.....	" " " " " " " "	45 00
1777	"	Elva Blount.....	" " " " " " " "	45 00
1778	"	A. B. Baker.....	" " " " " " " "	70 00
1779	"	F. J. Foote.....	" " " " " " " "	60 00
1780	"	H. I. Green.....	" " " " " " " "	45 00
1781	"	John F. Creek.....	" " " " " " " "	50 00
1782	"	L. G. Lathrop.....	" " " " " " " "	30 00
1783	"	J. Morrow.....	" " " " " " " "	65 00
1784	"	M. T. Lindsey.....	" " " " " " " "	30 00
1785	"	L. H. Walden.....	" " " " " " " "	12 50
1786	"	A. Iten.....	" " " " " " " "	12 50
1787	"	I. H. Allen.....	" " " " " " " "	30 00
1788	"	E. W. Justus.....	" " " " " " " "	25 00
1789	"	George Harding.....	" " " " " " " "	30 00
1790	"	Chas. B. Ewalt.....	" " " " " " " "	13 00
1791	"	Electric Lighting & Power Co.	Power, Sept. to Oct., 1894, March, 1895	122 47
1792	"	Odin Coal Co.....	Coal.....	604 21
1793	"	Union Mfg. Co.....	Water, 3 months, June 30, 1895.....	125 00
1794	"	C. H. Evans Co.....	Advertising.....	5 00
1795	"	Pantagraph Co.....	Printing catalogues.....	837 25
1796	"	Engineering News Pub. Co.....	Advertising.....	6 88
1797	"	Katharine Merrill.....	Expenses.....	1 50
1798	"	Oscar T. Spaulding.....	Meals.....	6 00
1799	"	H. E. Summers.....	Expenses.....	7 18
1800	"	Orr & Lockett Hardware Co.....	Glue, etc.....	7 60
1801	"	W. L. Pillsbury.....	Salary, June, 1895.....	100 00
1802	"	C. J. Sabin.....	Coal.....	79 47
1803	"	T. R. White.....	Gas for February and March, 1895.....	284 38
1804	"	Champaign County Printing Co	Printing.....	6 75
1805	"	Standard Oil Co.....	Oil.....	11 29
1806	"	Brown & Sharpe Mfg. Co.....	Gear cutter, etc.....	2 73
1807	"	Crescent Steel Co.....	Steel.....	10 82
1808	"	J. Hamilton & Son.....	Lumber.....	71 57
1809	"	T. H. Trevett.....	Hardware.....	10 97
1810	"	Sheldon Brick Co.....	Brick.....	20 00
1811	"	Fuller & Fuller Co.....	Chemical supplies.....	63 51
1812	"	Geo. Besore.....	Lumber.....	200 89
1813	"	Lyon & Healy.....	Drum head, etc.....	2 90
1814	"	Richards & Co.....	Glass tubing.....	1 25
1815	"	Hubbard & Sons.....	Plumbing.....	54 63
1816	"	C. T. Wilder.....	Negative and print.....	2 20
1817	"	Am. Arch. and Build. News Co.	Subscription.....	6 00
1818	"	F. K. Robeson & Bros.....	Toweling, etc.....	3 99
1819	"	Crosby S'tm Gauge & Valve Co	Hose and coupling.....	11 25
1820	"	F. A. Sackmann.....	Stamps.....	3 79
1821	"	Bullard & Gormley Co.....	Letter box plates.....	2 25
1822	"	Maltby & Wallace Co.....	Pipe and fittings.....	262 16
1823	"	H. C. Forbes.....	Salary for June, 1895.....	83 33
1824	"	Mary J. Snyder.....	" " " " " " " "	62 50
1825	"	W. G. Johnson.....	" " " " " " " "	100 00
1826	July	15 N. W. Graham.....	Expenses to Board meeting.....	57 57
1827	"	R. P. Morgan.....	" " " " " " " "	90 96
1828	"	Lucy L. Flower.....	" " " " " " " "	25 02
1829	"	W. L. Pillsbury.....	" " " " " " " "	17 26
1830	"	I. S. Raymond.....	" " " " " " " "	22 75
1831	"	Alex. McLean.....	" " " " " " " "	43 28
1832	"	John Mayer.....	Salary, June, 1895.....	20 00
1833	"	F. L. Bills.....	Postage.....	60 00
1834	"	Isaac Fielding.....	" " " " " " " "	10 00
1835	"	W. R. Howe.....	Drayage.....	6 87
1836	"	M. T. Lindsey.....	Salary for one-half month.....	15 00
1837	"	National Educational Ass'n.....	Advertising.....	10 00
1838	"	Renner Bros.....	Carriage hire.....	1 00
1839	"	Western Union Telegraph Co..	Telegrams.....	8 39



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1840	July, 15	C., C., C. & St. L. R'y Co.....	Freightage .....	\$21 08
1841	"	Wabash R. R. Co.....	" .....	26 15
1842	"	Illinois Central R. R. Co.....	" .....	12 83
1843	"	Pacific Express Co.....	" .....	19 98
1844	"	American Express Co.....	" .....	37 11
1845	"	S. W. Shattuck.....	Expenses.....	74 83
1846	"	Mary H. Steele.....	Music fees.....	50 00
1847	"	Mrs. C. W. Foster.....	" .....	30 00
1848	"	H. E. Summers.....	Expenses.....	1 16
1849	"	Payroll of men, June, 1895.....	Labor.....	289 74
1850	"	Payroll of students, June, 1895.....	" .....	203 53
1851	"	C. W. Spalding.....	Taxes, Minnesota lands, 1894.....	1,630 27
1852	"	O. C. Easton.....	Case .....	9 15
1853	"	Racine Yacht and Boat Works.....	Skiffs.....	48 00
1854	"	Chas. A. Hart.....	Expenses.....	44 61
1855	"	Alexander Stuart.....	Storage.....	9 15
1856	"	H. T. Sperry & Son.....	Insurance.....	62 50
1857	"	Champaign County Herald.....	Printing.....	172 00
1858	"	Geo. B. Carpenter Co.....	Duck .....	11 62
1859	"	Twin City I. and C. Storage Co.....	Ice .....	4 11
1860	"	Wm. Miebach.....	Fence wire.....	2 00
1861	"	A. P. Cunningham & Son.....	Stationery.....	10 45
1862	"	Wm. Price.....	Painting, etc.....	117 05
1863	"	R. S. Wilber.....	Drayage.....	40 00
1864	"	Walker & Mulliken.....	Chairs, etc.....	56 00
1865	"	Robinson & Burr.....	Repairs, etc.....	94 15
1866	"	Electric Lighting and Power Co.....	April, May, and June, 1895.....	120 00
1867	"	Odin Coal Co.....	Coal.....	37 98
1868	"	McLean County Coal Co.....	" .....	806 63
1869	"	Samuel Harris Co.....	Harris vise.....	4 40
1870	"	Crosby St'm Gauge & Valve Co.....	Gauges, etc.....	36 75
1871	"	John Chatillon's Sons.....	Balances.....	24 60
1872	"	McIntosh Battery & Optical Co.....	Thermometer, etc.....	21 63
1873	"	Ashcroft Mfg. Co.....	Siphon.....	9 50
1874	"	Buffalo Scales Co.....	Scale.....	27 85
1875	"	L. W. Peabody.....	Expenses.....	4 45
1876	"	C. W. Foster.....	Salary, spring term, 1895.....	100 00
1877	"	H. I. Green.....	Services as typewriter.....	5 20
1878	"	Yale & Town Mfg. Co.....	Key blanks.....	3 00
1879	"	Engineering News Pub. Co.....	Advertising.....	6 88
1880	"	J. T. Slocumb Co.....	Drills.....	1 50
1881	"	Orr & Lockett Hardware Co.....	Drawer pulls.....	2 00
1882	"	Eimer & Amend.....	Mercury.....	7 10
1883	"	Geo. L. English Co.....	Minerals.....	13 50
1884	"	Ward's Nat. Science Est'lish't.....	" .....	13 50
1885	"	Bausch & Lomb Optical Co.....	Laboratory supplies.....	18 95
1886	"	J. R. Greenhalgh.....	Lamps.....	3 75
1887	"	C. H. Baddeley.....	Lamp chimneys, etc.....	4 52
1888	"	Champaign Times.....	Advertising.....	1 96
1889	"	Public School Publishing Co.....	" .....	13 00
1890	"	L. C. Garwood.....	Repairing clock.....	2 00
1891	"	E. H. Sargent Co.....	Apparatus.....	30 25
1892	"	Schaeffer & Budenberg.....	Gages, etc.....	33 70
1893	"	Thos. Shaw.....	Test gages.....	39 15
1894	"	Library Bureau.....	Cards.....	21 46
1895	"	American Steam Gage Co.....	Springs.....	66 00
1896	"	Pantagraph Co.....	Printing, etc.....	28 65
1897	"	Nat'l Car & Locomotive Bldr.....	Subscription.....	2 00
1898	"	Ginn & Co.....	Trans. Am. Phil. Association.....	2 00
1899	"	A. C. McClurg Co.....	Stationery and books.....	132 28
1900	"	Gustave E. Stechert.....	Books.....	487 74
1901	July, 31	A. S. Draper.....	Salary, July, 1895.....	583 33
1902	"	T. J. Burrill.....	" .....	225 00
1903	"	S. W. Shattuck.....	" .....	166 66
1904	"	E. Snyder.....	" .....	83 33
1905	"	N. C. Ricker.....	" .....	166 66
1906	"	I. O. Baker.....	" .....	166 66
1907	"	S. A. Forbes.....	" .....	83 33
1908	"	C. W. Rolfe.....	" .....	166 66
1909	"	D. McIntosh.....	" .....	150 00
1910	"	A. N. Talbot.....	" .....	166 66
1911	"	A. W. Palmer.....	" .....	166 66
1912	"	F. F. Frederick.....	" .....	158 33
1913	"	S. W. Parr.....	" .....	166 66
1914	"	H. J. Barton.....	" .....	166 66
1915	"	Chas. M. Moss.....	" .....	166 66

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1916	July 31	D. K. Dodge.....	Salary, July 1895.....	\$166 66
1917	"	L. P. Breckenridge.....	".....	166 66
1918	"	D. W. Shea.....	".....	166 66
1919	"	David Kinley.....	".....	166 66
1920	"	Wm. J. Eckhoff.....	".....	150 00
1921	"	Eugene Davenport.....	".....	83 33
1922	"	Katharine Merrill.....	".....	100 00
1923	"	W. O. Krohn.....	".....	150 00
1924	"	H. E. Summers.....	".....	125 00
1925	"	E. J. Townsend.....	".....	125 00
1926	"	W. H. VanDervoot.....	".....	129 16
1927	"	W. D. Pence.....	".....	104 16
1928	"	E. B. Greene.....	".....	133 33
1929	"	F. H. Dodge.....	".....	133 33
1930	"	Percy F. Bicknell.....	".....	125 00
1931	"	Edward G. Howe.....	".....	150 00
1932	"	Geo. W. Parker.....	".....	115 00
1933	"	G. W. McCluer.....	".....	15 00
1934	"	David Kinley.....	Salary, summer school.....	266 66
1935	"	Wm. J. Eckhoff.....	".....	150 00
1936	"	Katharine Merrill.....	".....	100 00
1937	"	H. E. Summers.....	".....	125 00
1938	"	A. M. Kellogg.....	".....	110 00
1939	"	H. S. Grindley.....	".....	100 00
1940	"	Chas. A. Gunn.....	".....	75 00
1941	"	G. P. Clinton.....	".....	60 00
1942	"	H. E. Parker.....	".....	15 00
1943	"	W. L. Pillsbury.....	Salary, July, 1895.....	100 00
1944	"	Geo. W. Graham.....	Salary, part July, 1895.....	77 42
1945	"	Lillie Heath.....	Salary, July, 1895.....	45 00
1946	"	Elva Blount.....	".....	45 00
1947	"	A. B. Baker.....	".....	70 00
1948	"	Wm. M. Galvin.....	".....	39 20
1949	"	L. G. Lathrop.....	".....	35 00
1950	"	John Mayer.....	".....	20 00
1951	"	Mary J. Snyder.....	".....	62 50
1952	"	Chas. A. Hart.....	".....	62 50
1953	"	W. G. Johnson.....	".....	100 00
1954	"	H. C. Forbes.....	".....	83 33
1955	"	B. M. Duggar.....	".....	83 33
1956	"	C. A. Kofoed.....	".....	100 00
1957	"	Adolph Hempel.....	".....	60 00
1958	"	Frank Smith.....	".....	100 00
1959	"	F. D. Wilson.....	Writing.....	9 40
1960	"	E. B. Forbes.....	Work in laboratory.....	12 30
1961	"	W. D. Conkle.....	".....	4 09
1962	"	B. Zelle.....	Room rent.....	22 50
1963	"	H. C. Forbes.....	Expenses.....	3 70
1964	"	W. E. Jackson.....	Work in laboratory.....	15 00
1965	"	C. T. Wilder.....	"..... and expenses.....	20 10
1966	"	W. G. Johnson.....	Expenses.....	29 18
1967	"	Ginn & Co.....	Biological Lectures.....	2 65
1968	"	A. A. Beal Co.....	Plates of insects.....	50 10
1969	"	D. Appleton Co.....	Chapman Birds.....	2 54
1970	"	Franklin Eng'g and Elec. Co.....	Half-tones.....	116 00
1971	"	National R'y Publication Co.....	Subscription.....	5 00
1972	"	G. C. Wells.....	Collecting dead chinch bugs.....	38 25
1973	"	Macmillan Co.....	Baddard's mimeograph.....	11 25
1974	"	Wm. A. Gill Co.....	Boxes.....	6 00
1975	"	Bevis Co.....	Contract of machine shop building.....	1,428 42
1976	Aug. 5	Yeager & Schultz.....	Balance on contract.....	1,194 03
1977	"	I. S. Raymond.....	Expense to committee meeting.....	3 50
1978	"	Alex. McLean.....	".....	40 52
1979	"	S. A. Forbes.....	Expenses.....	87 78
1980	"	F. L. Bills.....	Postage.....	86 56
1981	"	W. G. Johnson.....	Expenses.....	15 40
1982	"	Frank Smith.....	".....	8 63
1983	"	F. D. Wilson.....	Work in laboratory.....	28 72
1984	"	Mrs. E. W. Jackman.....	".....	29 45
1985	"	O. H. Harpham.....	Pump and fittings.....	6 31
1986	"	E. B. Forbes.....	Work in laboratory.....	21 45
1987	"	Bausch & Lomb Optical Co.....	Apparatus.....	10 58
1988	"	O. B. Thorp.....	Gasoline stove, etc.....	7 40
1989	"	Western Electric Inst. Co.....	Wattmeter, etc.....	301 50
1990	"	The Lacon Co.....	Transformers.....	15 00
1991	"	National Electric Co.....	".....	29 00
1992	"	Louisville Electric Works.....	".....	22 40
1993	"	Diamond Electric Co.....	".....	25 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1895.				
1994	Aug.,	5 Stanley Electric Mfg. Co.....	Transformer.....	\$32 00
1995	"	F. A. Sager.....	Work in laboratory.....	66 15
1996	"	F. H. Everett.....	".....	63 20
1997	"	F. J. Foote.....	".....	67 90
1998	"	A. E. Foote.....	Minerals.....	44 25
1999	"	C. W. Noble.....	Blue prints.....	37 87
2000	"	S. W. Shattuck.....	Petty expense, 3 months to May 3, 1895.....	29 95
2001	Aug.,	15 Baker & Adamson.....	Chemical supplies.....	93 59
2002	"	F. K. Robeson & Bros.....	Crash.....	3 20
2003	"	Price & Sandford.....	Chemical supplies.....	6 35
2004	"	The Kariher Grocery Co.....	Syrup, etc.....	2 33
2005	"	Richard Key & Co.....	Pippettes.....	2 15
2006	"	Richards & Co.....	Chemical supplies.....	1,190 69
2007	"	Lillie McCain.....	Lantern slides.....	6 50
2008	"	T. H. Trevett.....	Hardware.....	3 25
2009	"	Chicago Legal News Co.....	Session Laws, 1895.....	2 00
2010	"	Mayme A. Hill.....	Services as pianist.....	5 00
2011	"	H. C. Forbes.....	Expenses.....	1 45
2012	"	Western Union Telegraph Co.....	Telegrams.....	4 36
2013	"	Franklin Engraving and Elec- trotyping Co.....	Half-tones, etc.....	2 50
2014	"	Macmillan Co.....	Mials Aquatic Insects.....	2 07
2015	"	A. A. Beal & Co.....	Plates.....	20 00
2016	"	Twin City I. and C. Storage Co.....	Ice.....	4 15
2017	"	Chas. T. Wilder.....	Photographs.....	7 10
2018	"	Adams Express Co.....	Freightage.....	5 25
2019	"	Pacific Express Co.....	".....	17 50
2020	"	American Express Co.....	".....	22 50
2021	"	Champaign County Herald.....	Printing.....	46 00
2022	"	Bausch & Lomb Optical Co.....	Laboratory supplies.....	38 50
2023	"	E. H. Sargent & Co.....	".....	50 30
2024	"	Eugene Davenport.....	Traveling expenses.....	70 65
2025	"	L. P. Breckenridge.....	Expenses.....	20 35
2026	"	Robinson & Burr.....	Repairs, pipe, and fittings.....	129 57
2027	"	Western Electric Instrument Co.....	Repairs.....	7 65
2028	"	A. L. Ide & Son.....	Safety caps.....	9 00
2029	"	Chester Steel Casting Co.....	Rings and patterns.....	2 24
2030	"	Chas. S. Besly Co.....	Tapes.....	2 43
2031	"	Western Electric Co.....	Wire, etc.....	37 74
2032	"	McIntosh Battery & Optical Co.....	Laboratory supplies.....	16 70
2033	"	Richards & Co.....	Potash, etc.....	2 78
2034	"	Gordon & Kimball.....	Repairs on skylights.....	60 00
2035	"	Racine Boat Mfg. Co.....	Steam launch.....	600 00
2036	"	A. L. Pillsbury.....	Plans.....	20 00
2037	"	Wm. Price.....	Calsomining.....	234 50
2038	"	Union Mfg. Co.....	Water, 3 months, October, 1895.....	125 00
2039	"	Miles Newberry.....	Labor.....	43 50
2040	"	Central Union Telephone Co.....	Rent, 3 months, Sept. 1, 1895.....	12 00
2041	"	Urbana Weekly Courier.....	Advertisement.....	2 00
2042	"	W. D. Pence.....	Expenses.....	4 15
2043	"	A. J. Herbst Co.....	Carbon sheets.....	1 50
2044	"	Geo. E. Marshall & Co.....	Record book.....	4 50
2045	"	Chicago Carpet Co.....	Linoleum.....	24 65
2046	"	Henry Trevett.....	Hardware.....	97 91
2047	"	W. M. Galvin.....	Salary part of August, 1895.....	5 80
2048	"	W. F. Marker.....	Salary for July, 1895.....	45 00
2049	"	Payrolls of men, July, 1895.....	Labor.....	911 58
2050	"	Payrolls of students, July, 1895.....	".....	164 54
2051	August	31 A. S. Draper.....	Salary for August, 1895.....	583 33
2052	"	T. J. Burrill.....	".....	225 00
2053	"	S. W. Shattuck.....	".....	166 66
2054	"	Edward Snyder.....	".....	83 33
2055	"	N. C. Ricker.....	".....	166 66
2056	"	I. O. Baker.....	".....	166 66
2057	"	S. A. Forbes.....	".....	83 33
2058	"	C. W. Rolfe.....	".....	166 66
2059	"	D. McIntosh.....	".....	150 00
2060	"	A. N. Talbot.....	".....	166 66
2061	"	A. W. Palmer.....	".....	166 66
2062	"	F. F. Frederick.....	".....	158 33
2063	"	S. W. Parr.....	".....	166 66
2064	"	H. J. Barton.....	".....	166 66
2065	"	Charles M. Moss.....	".....	166 66
2066	"	D. K. Dodge.....	".....	166 66
2067	"	L. P. Breckenridge.....	".....	166 66
2068	"	D. W. Shea.....	".....	166 66

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
2069	August 31	David Kinley.....	Salary for August, 1895.....	\$166 66
2070	"	William J. Eckoff.....	"	150 00
2071	"	Eugene Davenport.....	"	83 33
2072	"	Katharine Merrill.....	"	100 00
2073	"	W. O. Krohn.....	"	150 00
2074	"	H. E. Summers.....	"	125 00
2075	"	E. J. Townsend.....	"	125 00
2076	"	W. H. VanDervoort.....	"	129 16
2077	"	W. D. Pence.....	"	104 16
2078	"	E. B. Greene.....	"	133 33
2079	"	F. H. Dodge.....	"	133 33
2080	"	Percy F. Bicknell.....	"	125 00
2081	"	Edward G. Howe.....	"	150 00
2082	"	G. W. Parker.....	"	115 00
2083	"	G. W. McCluer.....	"	15 00
2084	"	George W. Graham.....	"	100 00
2085	"	Lillie Heath.....	"	45 00
2086	"	Elva Blount.....	"	45 00
2087	"	A. B. Baker.....	"	70 00
2088	"	H. I. Green.....	"	39 20
2089	"	L. G. Lathrop.....	"	35 00
2090	"	W. L. Pillsbury.....	"	100 00
2091	"	L. P. Breckenridge.....	Salary, 3 months, to date.....	62 50
2092	"	S. W. Shattuck.....	"	150 00
2093	"	W. G. Johnson.....	Salary for August, 1895.....	100 00
2094	"	B. M. Duggar.....	"	83 33
2095	"	C. A. Hart.....	"	62 50
2096	"	M. J. Snyder.....	"	62 50
2097	"	H. C. Forbes.....	"	83 33
2098	"	Frank Smith.....	"	100 00
2099	"	C. A. Kofoid.....	"	100 00
2100	"	Adolph Hempel.....	"	60 00
2101	"	E. B. Forbes.....	"	35 00
2101	"	The Taylor House.....	Board.....	8 00
2103	"	Miles Newberry.....	Salary, August, 1895.....	46 50
2104	"	C. P. & St. L. R'y Co.....	Freightage.....	40 80
2105	"	Mrs. L. E. Browning.....	Room rent.....	6 00
2106	"	The Monarch Distillery.....	Alcohol.....	36 37
2107	"	F. M. Everett.....	Work on apparatus.....	35 00
2108	"	F. A. Sager.....	"	59 50
2109	"	Bevis & Co.....	On contract for machine shop.....	3,163 42
2110	"	E. B. Forbes.....	Expenses.....	6 25
2111	"	Bausch & Lomb Optical Co.....	Apparatus.....	13 14
2112	"	E. H. Sargent & Co.....	Laboratory supplies.....	25 65
2113	"	S. A. Forbes.....	Expenses.....	75 75
2114	"	Thayer Jackson.....	Reporters' book.....	1 00
2115	"	Forest and Stream Pub. Co.....	Steam Yachts and Launches.....	3 00
2116	"	Central Union Telephone Co.....	Rent to September, 1895.....	4 50
2117	"	Franklin Eng. and Electro. Co.....	Half-tons.....	4 73
2118	"	F. L. Bills.....	Postage.....	81 40
2119	"	Mittendorf & Kiler.....	Waste baskets.....	5 00
2120	"	Library Bureau.....	Card cases, etc.....	25 70
2121	"	W. & L. E. Gurley.....	Compasses, etc.....	200 00
2122	"	Peter Heer.....	Repairs.....	5 05
2123	"	Hardie & Scharle.....	Directories.....	10 00
2124	"	A. H. Andrews Co.....	Tablet chair.....	1 50
2125	"	Chas. A. Besore.....	Lumber.....	357 91
2126	"	A. C. McClurg & Co.....	Stationery.....	51 33
2127	"	Geo. E. Marshall & Co.....	Registry book.....	2 00
2128	"	Isaac Fielding.....	Postage.....	10 00
2129	"	Horns' Coalery Co.....	Coal.....	64 13
2130	"	Yale & Towne Mfg. Co.....	Repairs and keys.....	35 80
2131	"	J. Bishop & Co.....	Repairing platinum ware.....	43 50
2132	"	Dennison Mfg. Co.....	Labels.....	6 25
2133	"	Public School Publishing Co.....	Advertisement.....	6 00
2134	"	D. H. Lloyd & Son.....	Stationery.....	22 85
2135	"	G. C. Willis.....	Towels, etc.....	53 63
2136	"	J. W. Keller.....	Repairing skylight.....	12 13
2127	"	E. Henry.....	Brush brooms, etc.....	38 27
2138	"	Wm. Price.....	Painting, etc.....	41 38
2139	"	Fuller & Fuller Co.....	Glass.....	14 03
2140	"	Bullard & Gormley Co.....	Drawer pulls.....	1 50
2141	"	T. P. Smith Wire Iron Works.....	Wire guards.....	19 90
2142	"	J. H. Nash.....	Rent and towing.....	13 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
2143	August 31	S. A. Forbes .....	Expenses .....	\$23 85
2144	"	Wagner Electric Mfg. Co. ....	Transformers .....	16 00
2145	"	Chas. T. Wilder .....	Lantern slides. ....	70 00
2146	"	Maltby & Wallace .....	Pipe, fittings, etc .....	174 37
2147	"	Champaign Supply Co. ....	.....	40 08
2148	"	Mechanical Dept., Univ. of Ill.	Labor, material, and power .....	301 02
2149	"	Architectural Dept., Univ. of Ill.	" " .....	114 07
2150	"		" " .....	992 03

*Financial Statement of the University of Illinois [not including State Laboratory of Natural History or the Agricultural Experiment Station] for the year ending August 31, 1895.*

RECEIPTS, SEPTEMBER 1, 1894—AUGUST 31, 1895.		
<i>Balances—</i>		
State appropriations.....	\$118,615 79	
United States appropriations .....	20,346 50	
Other funds .....	2,650 26	
		\$141,612 55
<i>From State Appropriations—</i>		
Taxes on Minnesota lands.....	\$1,600 00	
Salaries, etc.....	90,000 00	
Library.....	3,000 00	
Apparatus and materials.....	3,000 00	
Shop practice.....	1,500 00	
Cabinets .....	1,000 00	
Fitting and furnishing Engineering Hall.....	5,000 00	
Engineering College .....	25,000 00	
Chemical Laboratory.....	5,000 00	
Laboratory Vegetable Physiology .....	2,000 00	
Fire protection .....	2,000 00	
Building and equipping Biological Experiment Station .....	2,500 00	
Biological Experiment Station expenses .....	1,500 00	
Astronomical Observatory .....	5,000 00	
Paving street, etc.....	9,300 00	
		157,400 00
<i>From United States Appropriation—</i>		
For instruction and the facilities therefor .....		21,000 00
<i>From other sources—</i>		
Interest on endowment and other funds .....	\$28,499 61	
Rents .....	2,792 28	
Fees of University students.....	15,102 50	
Fees of Preparatory students .....	3,557 20	
Gross receipts of of business departments and laboratories .....	7,515 53	
Bonds .....	13,000 00	
Miscellaneous .....	1,188 91	
Overdraft.....	5,725 98	
		77,382 01
		<u>\$397,394 56</u>
EXPENDITURES, SEPTEMBER 1, 1894—AUGUST 31, 1895.		
<i>Of United States Appropriations—</i>		
Agricultural department .....	77 74	
Engineering College.....	1,240 38	
Natural history.....	109 47	
Salaries for instruction .....	24,198 78	
		\$25,626 37
<i>Of State Appropriations—</i>		
Taxes on Minnesota lands.....	\$1,600 00	
Buildings and grounds .....	2,943 85	
Salaries for instruction.....	29,211 83	
Mechanical shops .....	900 00	
Museums .....	91 65	
Apparatus and material .....	1,647 21	
Library.....	5,621 55	
Laboratories.....	6,663 54	
Heating and furnishing Natural History Hall.....	342 85	
Boilers and coal house .....	6,500 00	
Engineering Hall .....	66,669 45	
New machine shop .....	4,607 84	
Equipment Biological Experiment Station .....	675 80	
Biological Experiment Station expenses.....	336 73	
Street paving .....	2 64	
		127,814 94
<i>Of other funds—</i>		
Board expense.....	\$1,704 95	
Salaries for instruction.....	31,905 61	
Salaries for services .....	10,179 99	
Buildings and grounds .....	1,909 38	
Fuel and lights .....	6,930 55	
Stationery, printing, and postage .....	3,051 73	
Preparatory school.....	4,448 91	
Gross expenses of business departments .....	10,122 74	
Furniture and fixtures.....	954 92	
Water supply .....	500 00	
Advertising.....	1,622 49	

*Financial Statement—Continued.*

<i>Of other funds—Continued:</i>		
Military scholarships .....	\$285 00	
Summer School .....	1, 125 52	
Accredited schools .....	390 97	
Biological Station .....	1, 165 25	
Miscellaneous .....	3, 734 26	
		\$80, 032 27
<i>Balances—State appropriations</i> .....		148, 200 85
United States appropriation .....		15, 720 13
		<u>\$397, 394 56</u>

*Financial Statement of the Illinois State Laboratory of Natural History, for the fiscal year ending June 30, 1895.*

RECEIPTS.		
Balance from last report .....	\$1, 482 20	
For field, office, and incidental expenses .....	1, 500 00	
For improvement of library .....	1, 000 00	
For salaries and assistance .....	3, 500 00	
For illustration of State Entomologist's report .....	250 00	
For publication of bulletins .....	500 00	
EXPENDITURES.		
For field, office, and incidental expenses .....		\$1, 500 00
For improvement of library .....		1, 000 00
For salaries and assistance .....		3, 500 00
For illustration of State Entomologist's report .....		250 88
For publication of bulletins .....		605 57
For publication of bulletins (supplementary report) .....		604 74
For lapsed to treasury, for bulletin appropriations .....		500 00
Balance .....		271 01
	<u>\$8, 232 20</u>	<u>\$8, 232 20</u>

*Financial Statement of the Agricultural Experiment Station, University of Illinois, for the year ending June 30, 1895.*

RECEIPTS.		
Appropriated by Congress .....	\$15, 000 00	
Balance, other funds .....	393 54	
From State Board of Agriculture for analyses of fertilizers .....	90 00	
From Station farm, etc. ....	2, 240 36	
EXPENDITURES.		
Board expense .....		\$105 84
Books and publication .....		284 90
Botanical apparatus .....		21 86
Bulletins .....		2, 228 51
Chemical apparatus and supplies .....		275 66
Fertilizers .....		21 50
Fuel and lights .....		336 02
Incidentals .....		21 94
Meteorological apparatus .....		8 40
Printing, stationery, and postage .....		80 61
Salaries .....		6, 483 38
Seeds and trees .....		147 46
Tools and supplies .....		781 10
Wages .....		3, 858 63
Special expenditures on chinch bug, wood durability, and irrigation experiments .....		344 19
Other funds .....		2, 519 41
Balance, other funds .....		204 49
	<u>\$17, 723 90</u>	<u>\$17, 723 90</u>

**PROCEEDINGS**  
OF THE  
**BOARD OF TRUSTEES**  
OF THE  
**UNIVERSITY OF ILLINOIS,**  
FOR THE  
**Year Ending August 31, 1896.**

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**MEETING OF SEPTEMBER 4, 1895.**

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The Board of Trustees of the University of Illinois, met in the University parlor, in Urbana, at 9 o'clock a. m., Wednesday, September 4, 1895.

The members present were Messrs. Graham, McLean, Morgan, and Morrison.

Mr. Morgan, Chairman of the Committee on Buildings and Grounds, announced that the Committee preferred not to select one from the designs for the library, thirty-two of which had been handed in to the Secretary of the Board, but that the Board itself should make the selection.

There being no quorum present, the Board adjourned to meet at 2 o'clock p. m.

**AFTERNOON SESSION.**

When the Board met, pursuant to adjournment, there were present Messrs. Bullard, Graham, McLean, Morgan, Morrison, and Dr. Smith.

On motion of Mr. Morgan, the minutes of the last meeting were approved as presented by the Secretary.

Mr. B. F. Harris, Jr., having asked the privilege of so doing, made a statement on behalf of the Urbana and Champaign Electric Railway Company. He also made a statement on behalf of the Champaign and Urbana Gas Light and fuel Company, with regard to the price at which the company would furnish gas to the University, and



a further statement with regard to the electric power and lighting furnished by the Electric Lighting and Power Company.

The Board then took a recess until 4 o'clock p. m. in order to inspect the plans, which had been presented for the library building. Afterwards the Board adjourned to meet at 8:30 o'clock a. m.

#### SESSION OF THURSDAY.

When the Board was called to order, pursuant to adjournment, there were present Messrs. Bullard, Graham, McLean, Morgan, Morrison, Raymond, and Dr. Smith.

As the Secretary, Mr. Pillsbury, was compelled to be away in charge of the examination of new students, Mr. Bullard was appointed Secretary *pro tem.* by President Graham.

The following resolution was adopted on motion of Mr. Bullard:

*Resolved*, That George A. Goodenough be appointed instructor in mechanical engineering, at a salary of \$75 a month; that Joseph R. Wilson be appointed foreman in the foundry, at \$50 a month; that Oscar Quick be appointed instructor in physics, at \$75 a month; that Paul Chipman be appointed assistant in the testing laboratory, at \$70 a month (in place of Mr. Peabody, who was appointed in June, but who has resigned); and that Reuben S. Douglass be appointed assistant in the preparatory department, at \$75 a month. All of the foregoing appointments are for ten months.

Professor Davenport's bill of \$6.31, for expenses incurred in attending the meeting of the Farmers' Institute Association, at Springfield, was ordered paid on motion of Mr. Raymond.

On motion of Mr. Raymond, \$250 was appropriated for the use of the mechanical shops, the money to come from the state appropriation for that purpose.

President Graham then asked Mr. Raymond to occupy the chair.

On motion of Mr. Morgan, it was voted that the matter of selling five machines no longer needed in the machine shops be referred to the Committee on Buildings and Grounds, with power to act. The machines referred to were: 1 iron top wood shaper; 1 wooden saw bench; 1 multiple spindle drill; 2 centering lathes.

The moving of the mechanical laboratory from the Chemical Laboratory and installing it in the new shops, and the moving of machines in the old shops to other parts of the building, were, on motion of Dr. Smith, referred to the Committee on Buildings and Grounds, with power to act,

On motion of Mr. Morgan, \$100 was appropriated for the purchase of maps, etc., for the Preparatory School.

On motion of Mr. Morrison, \$75 was appropriated for the use of the committee of the Faculty on accredited schools.

On motion of Mr. Morrison, an appropriation of \$100 was made for the purchase of additional gas fixtures for Natural History Hall, the money to be expended by the Business Agent.

A communication was received from Professor Forbes, Director of the State Laboratory of Natural History, with regard to the appro-

priation made by the last session of the legislature for the use of the laboratory. It was agreed that it would be advisable for President Draper to prepare a communication to the Governor and Auditor of Public Accounts, and that Professor Forbes should take this to Springfield and endeavor to secure the payment of this appropriation by the State Treasurer.

President Draper spoke at some length in explanation of the condition of affairs in regard to the vaccine farm and the examination of candidates for entrance to medical colleges.

A communication, presented by President Draper, from Professor Davenport, of the department of agriculture, was referred to the Farm Committee. The following is a summary of this communication:

SUMMARY OF PLANS FOR REORGANIZATION OF THE COLLEGE OF AGRICULTURE  
IN ITS RELATION TO THE EXPERIMENT STATION.

1. This reorganization should be on a basis in accordance with the needs of the subject, the richness of the endowment, and the dignity of the institution as a whole.

2. The Experiment Station exists for the purpose of original investigation only, and must not be called upon to illustrate, or to teach the principles of agricultural practice.

3. For purposes of instruction, and experimentation as well, the subject of agriculture, like all subjects, should be so divided that each division may be within the compass of the ability of one individual.

4. To this end the plan that has been begun should be completed, establishing the following divisions: (1) Agriculture, as limited to soils and crops; (2) Animal Husbandry; (3) Dairy Manufactures; (4) Horticulture, with a responsible and able head in charge of each division.

5. The College of Agriculture, like the other colleges, should have: (1) housing; and (2) equipment.

6. For housing it should have an Agricultural Hall, with class rooms, offices, and laboratories, and laboratory apparatus, including a dairy plant. The same hall should supply the Experiment Station with offices and laboratories.

7. For equipment, besides laboratory apparatus, the College needs lands, crops, farm implements, and live stock for illustration and for instruction of students.

8. In the interest of economy the same property and employés should serve the interests of both College and Station whenever possible. But this is proper only when both interests share in expense of maintenance.

9. Proper adjustment should be made between the College and the Station and a fair proportion of expense assessed to each. The present adjustment is unfair to the Station and inadequate for College purposes.

10. High standards of neatness and order should be insisted upon and objectionable practices discontinued. These are: (1) Housing horses and experiment cattle in the same building; (2) Exposing the farm implements to the elements at all seasons for lack of shelter; (3) Breeding to grade bulls and establishing a herd of scrub cattle.

11. The first and second reforms should be accomplished by removing the horses into a separate barn, having a tool barn contiguous and commodious enough to shelter every implement needed.

12. The third should be relieved by using only pure-bred, registered bulls.

13. For purposes of illustration a small herd of three breeds of cattle, and one of hogs should be maintained. Foundations for these herds should be purchased, and ultimately no grade stock should be kept except for the purpose of experiment or special illustration. I would recommend no sheep, and no horses, except for actual labor.

14. The present barn should be ultimately fitted up as a cattle barn, but the first expense should be for separate quarters for horses.

15. Good drainage should be provided for all buildings, and no buildings should be allowed out of repair. It is not proper that the Experiment Station should bear all the burden of repairs of buildings.

16. This organization and equipment should go on until the good farmer will find no just cause for criticism.

17. Those things should be done first that mean most for the money outlay, or that remove particularly objectionable features. These are to my mind:

- (a) To complete the proper division of the subject.
- (b) To secure a few well bred cattle and swine.
- (c) To provide shelter for tools.
- (d) To separate work horses from cows and experimental feeding.
- (e) To provide drainage from buildings.
- (f) To put all buildings in good condition.

18. We ought to offer a course in Farm Dairying the coming winter, and a sum should be set apart to equip for this and for further instruction of regular and special students.

19. Commercial operations should be avoided as outside of either experimentation or instruction, except when they naturally arise in connection with necessary equipment.

20. If I were to say what we need most, as soon as it can be provided, and what would do us most credit outside, in our state and abroad, I should say an Agricultural Hall, costing for building and equipment not less than \$100,000.00.

#### *Items of Expense Involved in Recommendations.*

1. Division of subject—Agriculture proper; Animal Husbandry; Dairy Manufactures; Horticulture.

2. Fund for instruction, \$500.00.

3. Foundation purchase of pure-bred live stock, \$1,000.00.

4. Horse and tool barn, \$1,450.00.

5. Drainage about buildings, \$75.00.

6. Repairs of buildings, painting of farm house, \$60.00; heater for same \$400.00.

In order of importance, except that if (4) is not provided for, at least \$300.00 will be surely needed for a separate tool shed.

Mr. Bullard moved to appropriate, not to exceed \$800.00, for a piano. Mr. McLean moved to amend by making the amount \$250.00. The amendment was lost. The original amendment was passed by the following vote: Yeas, Messrs. Bullard, Graham, Morgan, and Dr. Smith; nays, Messrs. McLean, Morrison, and Raymond.

On motion of Mr. Bullard, the purchase of the piano was referred to President Draper, the Business Agent, Professor Shattuck, Dr. Smith, and Professor Jones, as a committee.

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

*Resolved*, That the Board of Trustees, in committee of the whole, now take up the consideration of the plans submitted in competition for the new University library building, and that the decision awarding the premiums be made by the full Board.

The Committee on Buildings and Grounds made the following report:

REPORT OF COMMITTEE ON BUILDINGS AND GROUNDS.

URBANA, ILL., September 4, 1895.

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

GENTLEMEN: The Buildings and Grounds Committee respectfully presents the following report of its action in carrying into effect special instructions received from the Board, and also other matters properly belonging to the functions of the Committee.

First. After careful consideration and consultation with President Draper in respect to the improvements instructed by the Board to be made on Green street, it was decided to pave and curb thirty-two feet in width of the south half of Green street, centrally located, leaving a margin of five feet on each side between the curb line and the trees.

Proposals for doing this work were invited and several bids were received—the lowest and best bidder being Robert Clark, of Peoria, to whom the contract was awarded. A copy of the contract, together with the bond and correspondence, is herewith presented. The work to be completed on the fifteenth of September.

The Committee and President Draper also upon due consideration determined upon a plan for parking the north half of Green street, and passed the following resolution, which its Chairman communicated to Mr. B. F. Harris, Jr., President of the Urbana and Champaign Electric Street Railroad Co., on the 27th of July last, in the following letter:

[Copy.]

July 17, 1895.

*B. F. Harris, Jr., President Urbana and Champaign Electric Street R. R. Co., Champaign, Ill.*

DEAR SIR: I am instructed to present to you the following resolution which was adopted by the Buildings and Grounds Committee of the University of Illinois on the 27th of June, 1895:

*“Resolved*, That in view of the new pavement and walks about to be laid on Green street and of the changes in grades and in the arrangement of grounds for the beautifying of the same, the Committee on Buildings and Grounds is of the opinion that it is incompatible with the interests of the University to permit more than a single line of street railway track through the University grounds, and that if the same is to be continued the track is to be moved to the middle of the northern thoroughfare which it now occupies.

*“The poles now in use should be removed and iron poles of an ornamental character substituted, and also the switch upon University grounds should be removed; and if the railway company should not approve of the course and should prefer to remove their track from Green street altogether and go back to the use of their old line, the Committee would not look with disfavor on their doing so.”*

Inasmuch as the improvements spoken of in the resolution are to be proceeded with at once, you will see the importance of prompt action on your

part, so that should you decide to continue the privilege to you of maintaining a track on Green street all of the work, including that devolving upon you, may be carried forward simultaneously and completed on the earliest practicable date.

Kindly advise me as promptly as practicable of your decision, and oblige.

Yours very truly,

RICH. P. MORGAN,

*Chairman Buildings and Grounds Committee, University of Illinois.*

The correspondence succeeding this letter, between Mr. Harris and the Chairman, is herewith submitted as the result of the action of the Committee, nothing further having been accomplished.

Second. In regard to the construction of the walks, careful investigation has been made by the Committee and proposals for their construction invited. Bids have been received from Simpson Bros. & Co., of Chicago.; P. E. Taintor, of Springfield, and W. McDonald, of DuQuoin. Also a letter has been received from Hon. Nelson W. Graham, Chairman of the Board of Trustees, in regard to brick walks, all of which are herewith presented.

Third. Further complying with the instructions of the Board, a plan for the machine shop was prepared by Professor Ricker, and proposals for its construction were invited, Bevis & Co., of Urbana, being the lowest and best bidder, that firm was awarded all of the work, excepting the roof. By the terms of the contract the building is to be ready for the roof on the 3d day of September, 1895.

The contract for the roof was let to the well-known constructor of roofs, C. L. Strobel, of Chicago. The work to be completed as quickly as the obtaining of the iron work would permit.

The plans and contracts for erecting the machine shop are herewith submitted, together with the correspondence.

Payments on account of the contracts have been made aggregating \$4,607.84.

Fourth. The contract with Geo. L. Batchelder, of July 12, 1894, for wiring and conduiting for incandescent lights in Engineering Hall, was claimed by him to have been completed August 20, 1895. His final statement in detail, and a copy of the contract and correspondence are herewith presented, showing a balance due to him of \$1,566.39, including extra, \$56.91.

Fifth. The improvements made in the Chemical Laboratory, for which \$1,000.00 was appropriated, have been done by day labor under the personal supervision of Professor Palmer and the Buildings and Grounds Committee, and a statement of the cost of the labor and material is herewith presented.

Sixth. The construction of the glass addition to the laboratory for vegetable physiology has necessarily been in the care of Dr. Burrill, and his report of progress is herewith submitted.

Seventh. The bond for the new arms for the military department was made by Trustees Raymond and Morgan and delivered to Mr. Pillsbury for transmission to the Secretary of War.

Eighth. Immediately after the adjourned meeting of the Trustees June 27, 1895, at which the library building was located and instructions as to the character of the building were given, President Draper and the Chairman of the Buildings and Grounds Committee visited Chicago and Minneapolis for the purpose of acquiring as full information as practicable in regard to library buildings for universities. Much valuable knowledge was obtained, and it was deemed best to recommend to the Trustees that the building be entirely of fire-proof construction. Therefore the Chairman of the Buildings and Grounds Committee wrote to each member of the Board upon that subject, and received approval of the recommendation from all excepting one. Therefore the invitation of the Buildings and Grounds Committee to architects for competitive plans for the library building, which was issued July 20, 1895, provided that the building should be fire-proof throughout. The invita-

tion requires that the designs be in the hands of Mr. Pillsbury, Secretary of the Board of Trustees, on or before 12 o'clock noon Wednesday, September 4, 1895.

Ninth. In compliance with the instructions of the Board of Trustees June 27, 1895, the Buildings and Grounds Committee met with Professor S. A. Forbes at the Biological Station of the University, in Havana, Ill., for consultation in respect to the expenditures of the appropriation made for the temporary building and the equipment of the Station. The plans and estimates which Professor Forbes had obtained were carefully considered and approved.

The proposition of one contractor for the cabin boat was accepted and concluded, and is herewith presented, together with the report of Professor Forbes.

Tenth. Acting upon the resolution of the Board June 27, 1895, in regard to the sale of land and application of the proceeds to the construction of the residence of the President of the University, it was first ascertained that the land could be sold for as much as \$80 per acre. Eighty dollars per acre for half of the land is offered, payable October 1 next; also an offer of \$80 per acre for the whole, \$2,000 in cash and balance in payments with interest.

President Draper and the Chairman of the Committee on buildings and Grounds had a brief interview with S. S. Beman, architect, of Chicago, outlining what has been proposed to be done, and thereupon Mr. Beman accompanied the President to Urbana for the purpose of examining the site of the proposed residence and for further conference, all of which resulted in the engagement of Mr. Beman to make the plans and prepare specifications for the building upon which contractors might predicate bids for its construction. The plans and specifications have been in the hands of a number of builders and their proposals are to be submitted by 12 o'clock noon September 5, 1895. The plans and specifications are herewith presented.

Eleventh. It is found that the earth to be excavated for the pavement on Green street will be insufficient to complete the parking and grading about Engineering Hall and the President's residence. Therefore, as no provision has been made for moving the earth, as recommended by Professor Ricker, from the lower basement of Engineering Hall, an appropriation of \$500.00 is asked for this purpose, so that the earth may be used to make up the deficiency.

Twelfth. In regard to the construction of the Astronomical Observatory no actual progress has been made, further than to collect information in respect to the latest designs for structures of like character and for the equipment of the same. The Committee, however, intends to proceed without delay, so that the foundations may be all in and stand through the winter for settlement, before the completion and furnishing of the building.

RICHARD P. MORGAN,  
ALEX. MCLEAN,  
ISAAC S. RAYMOND,  
N. B. MORRISON,

*Committee on Buildings and Grounds.*

The resolution, which forms a part of the letter addressed to the President of the Urbana and Champaign Street Railroad Company, quoted in the above report, was presented to the Board for separate action and was affirmed, on motion of Mr. McLean, and to it was added the following resolution:

*Resolved*, That the Urbana and Champaign Electric Railroad Company can not be permitted occupation, with its tracks or otherwise, of any part of the grounds of the University of Illinois, except as a tenant at will.

The report of the Committee on Buildings and Grounds was then approved.

Bids, which had been received for building a President's house, were then opened. They were as follows:

For plumbing, gas, etc.— Robert Loudon, Bloomington.....	\$1,850 00
For carpentry work— Edwards Mfg. Co., Chicago.....	8,923 00
For whole job— Chas. H. Post, Chicago.....	16,000 00
William Mavor Co., Chicago .....	19,350 00
S. McKee, Springfield.....	16,847 00
F. M. Walton, Danville .....	16,990 00
C. A. Besore, Urbana .....	15,871 00
Frank H. Jahr, Urbana.....	15,571 00
L. M. Moore & Son, Danville.....	16,666 00
Bevis & Co., Urbana.....	15,700 00

Bids offered for the construction of sidewalks were opened and found to be as follows:

Wm. McDonald, DuQuoin—Granitoid, 8 inches cinders,  $3\frac{1}{2}$  inches crushed granite,  $\frac{3}{4}$  inch granite siftings; three years' guarantee—21 cents per square foot.

Simpson Bros. Co., Chicago—6 inches cinders,  $3\frac{1}{2}$  inches concrete 1 and 6,  $\frac{1}{2}$  inch cement and sand 1 and 1—15 cents per square foot, materials at Champaign; 17 cents per square foot, materials at Chicago.

Six inches cinders, 4 inches concrete,  $\frac{1}{2}$  inch cement and sand—17 $\frac{1}{2}$  cents per square foot, materials at Champaign; 20 cents per square foot, materials at Chicago.

P. E. Taintor, Springfield—8 inches cinders, 3 inches concrete 1 to 5, 1 inch cement and sand 1 and 2—15 cents per square foot.

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

#### AFTERNOON SESSION.

When the Board met pursuant to adjournment the same members were present as in the morning and, besides, Mrs. Flower.

On motion of Mr. Morgan, the bid of Mr. P. E. Taintor, of Springfield, for cement walks, was accepted.

On motion of Mr. McLean, it was voted that the Committee on Buildings and Grounds be authorized to expend \$500.00 for the excavation under Engineering Hall, if the Committee thinks best to do so, and the amount of \$500.00 was appropriated for that purpose.

The following report in relation to the Summer School was presented by President Draper:

UNIVERSITY OF ILLINOIS, September 5, 1895.

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

LADIES AND GENTLEMEN: I beg leave to submit the following report of the last session of the summer school:

The total number of students enrolled was thirty-two. Of these three left within a day or two of registration because they wanted to study subjects for which we had not made provision, and three were students who wished private instruction under the auspices of the school. This left twenty-six regularly enrolled and paying fees. Of these four were University students, and the others were teachers in the public schools.

The numbers taking the various subjects were as follows: Botany, 10; Mathematics, 10; Physiology, 7; Chemistry and Zoölogy, 6 each; English Literature, History, Pedagogy, 5 each; Rhetoric and Physical Culture, 4 each; Political Economy, 3; Psychology and German, 2 each; Manual Training, 1.

The total expenditures, as shown by the statement of the business agent were over \$100.00 less than the appropriation and the fees.

The facts show that the session was a failure. The number enrolled was twelve less than last year. All the indications pointed to an increase, and your director expected between seventy-five and one hundred students. The school had been more widely advertised than before, advertisements having been inserted in two of the leading educational journals and between fifteen and twenty thousand circulars having been distributed among the teachers of the state.

From conversations with those who attended and from reports from surrounding towns, I believe that the cause of the small attendance was the "small-pox scare" from which Champaign and Urbana suffered in the early part of the summer.

I have no recommendation to make as to the continuance of the summer school. I regard it, however, as exceedingly doubtful whether a large number can ever be gotten together here during the summer. If the school should be continued the session should last six weeks.

Respectfully submitted,

DAVID KINLEY,

*Director.*

President Graham presented a report upon withholding warrants for salary for several months from certain professors and employes who had resigned.

On motion of Mr. McLean, it was ordered that the salaries of Professor Eckhoff, Mrs. Bruner, and Mr. F. H. Dodge, be paid to September 1, 1895.

On motion of Mr. McLean, it was ordered that Professor Bruner be not paid for the months of July and August, 1895.

On motion of Mr. McLean, it was ordered that Mr. Parker's salary be paid to September 1, 1895, and that his services cease at that time, except as he may be employed at a fixed salary by the Chairman of the Committee on Buildings and Grounds.

On motion of Mr. Morgan, it was ordered that Mr. A. B. Baker be paid at the rate of \$500 a year from and after August 1, 1895.

On motion of Mr. McLean, it was ordered that the expenses of persons in charge of the examination of candidates for admission to medical colleges be paid.

On motion of Dr. Smith, it was voted that \$100 be appropriated for compensation of an assistant in the military department, the appointment to be made by President Draper.

President Draper presented the report of the Agricultural Experiment Station.



## AGRICULTURAL EXPERIMENT STATION REPORT.

UNIVERSITY OF ILLINOIS, September 3, 1895.

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

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

*Paper A* is a statement of expenditures for the quarter ending June 30, 1895.

*Paper B* is a statement of expenditures for the year ending June 30, 1895.

*Paper C* is a list of warrants drawn, Nos. 266 to 362, inclusive, for the quarter ending June 30, 1895, and is accompanied with vouchers for the same for audit.

*Paper D* is a statement of expenditures for the current quarter, ending September 30, 1895.

*Paper E* is a statement of appropriations asked for the current and next quarters.

## PAPER A—STATEMENT OF EXPENDITURES FOR QUARTER ENDING JUNE 30, 1895.

Board expense .....	\$24 55
Books and publications .....	4 96
Botanical apparatus .....	12 62
Bulletins .....	520 69
Chemical apparatus and supplies .....	60 82
Fuel and lights .....	107 02
Incidentals .....	14 62
Meteorological apparatus .....	8 40
Printing, stationery, and postage .....	21 50
Salaries .....	1,576 66
Seeds and trees .....	68 97
Tools and supplies .....	210 56
Wages .....	1,360 92
Sundry—	
Irrigation experiment .....	53 55
Total .....	\$4,045 84

## PAPER B—STATEMENT OF EXPENDITURES FOR THE YEAR ENDING JUNE 30, 1895.

Board expense .....	\$105 84
Books and publications .....	284 90
Botanical apparatus .....	21 86
Bulletins .....	2,228 51
Chemical apparatus and supplies .....	275 66
Fertilizers .....	21 50
Fuel and lights .....	336 02
Incidentals .....	21 94
Meteorological apparatus .....	8 40
Printing, stationery, and postage .....	80 61
Salaries .....	6,483 38
Seeds and trees .....	147 46
Tools and supplies .....	781 10
Wages .....	3,858 63
Sundry—	
Chinch bug experiment .....	232 23
Wood durability experiment .....	58 41
Irrigation experiment .....	53 55
Total .....	\$15,000 00

PAPER D—STATEMENT OF APPROPRIATIONS, EXPENDITURES AND BALANCES, QUARTER  
ENDING SEPTEMBER 30, 1895.

	Appropriated.	Expended.	Balances.
Board expense .....	\$40 00	.....	\$40 00
Books and publications .....	50 00	.....	50 00
Botanical apparatus .....	60 00	\$41 80	18 20
Buildings and repairs .....	25 00	7 00	18 00
Bulletins .....	150 00	.....	150 00
Chemical apparatus and supplies .....	275 00	202 51	72 49
Fuel and lights .....	60 00	11 85	48 15
Incidentals .....	95 65	70 65	25 00
Printing, stationery, and postage .....	25 00	.....	25 00
Salaries .....	1,660 00	1,106 65	553 35
Seeds and trees .....	25 00	.....	25 00
Tools and supplies .....	150 00	5 00	145 00
Wood durability experiment .....	50 00	.....	50 00
Wages .....	1,250 00	571 41	678 59
Total .....	\$3,915 65	\$2,016 87	\$1,898 78

## PAPER E—ESTIMATES.

<i>Quarter ending September 30, 1895.</i>		
From farm fund—		
Tools and supplies .....		\$250 00
<i>Quarter ending December 31, 1895.</i>		
From general fund—		
Board expense .....		\$40 00
Books and publications .....		225 00
Botanical apparatus .....		25 00
Buildings and repairs .....		25 00
Bulletins .....		300 00
Chemical apparatus .....		50 00
Fuel and lights .....		100 00
Incidentals .....		25 00
Printing, stationery, and postage .....		25 00
Salaries .....		1,660 00
Seeds and trees .....		25 00
Tools and supplies .....		200 00
Wood durability experiment .....		50 00
Wages .....		1,000 00
Total .....		\$3,750 00
From farm fund—		
Dairy fittings .....		\$200 00
Selection of land in southern Illinois .....		50 00
Tools and supplies .....		175 00
Wages .....		300 00
Total .....		\$725 00

The Board of Direction asks that the Trustees appropriate Experiment Station funds to meet these estimates.

The Board also reports that it has adopted the following resolutions with regard to experiments with Indian corn:

*Resolved,* That the Station staff of the Illinois Experiment Station recognizes in Indian corn the most valuable food crop of temperate regions; and, inasmuch as the State of Illinois is in the center of the great corn region of the world, it is further

*Resolved*, That Indian corn and its relations from every conceivable point of view ought to be considered the foremost subject for experimentation at this Station, including among other things the following items;

1. Its botanical, chemical, and physiological characters and requirements.
2. Its culture.
3. Breeding.
4. Its relations to the elements of fertility.
5. Ascertaining what rotations or systems of cropping are best adapted to the largest practicable production of corn both in acreage and yield, and to maintaining the fertility of corn lands.

To the latter object all field experiments ought to be directed.

Respectfully submitted,

T. J. BURRILL,

*President Board of Direction.*

On motion of Mr. McLean, the vouchers presented were referred to the Committee on Finance, and appropriations of Experiment Station funds were made according to the estimates in *Paper E*, above.

The Executive Committee reported action taken as follows:

#### EXECUTIVE COMMITTEE REPORT.

URBANA, ILLINOIS, Sept. 4, 1895.

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

GENTLEMEN: Your Executive Committee held a meeting at the University, July 2, 1895, at which all the members of the Committee were present. Messrs. Morgan and Raymond were also present.

The following business was transacted:

*Resolved*, That Mr. Pence, in conjunction with the county surveyor of Champaign county, proceed to establish the corners of all the lands belonging to the University and that stones be placed in each corner, and said corners recorded.

WHEREAS, Overtures are made to the Trustees indicating that the Board is not justified in paying more than \$1.00 per M feet for the gas consumed by the University, therefore

*Resolved*, That the Business Agent be directed to communicate with the company supplying gas to the University buildings and seek a reduction to \$1.00 per M in the price of gas consumed by the University before further negotiations are prosecuted, and notify the Committee on Buildings and Grounds of the result as soon as practicable. Adopted.

Your Executive Committee also held a meeting, at which all the members were present, at the Doane House, in Champaign, on the evening of July 2, 1895. At this meeting the Committee appointed Mr. George W. Graham as Superintendent of Buildings and Grounds at a salary of \$100.00 a month; same to take effect Monday, July 8th.

On motion of Mr. McLean, \$62.50 was appropriated for premium on insurance on arms.

NELSON W. GRAHAM,

ALEX. MCLEAN,

N. B. MORRISON,

*Executive Committee.*

This action of the Executive Committee was confirmed.

The Farm Committee reported back the communication from Professor Davenport with regard to the agricultural department with the recommendation that the matter be considered by the full Board. The recommendation was adopted.

The Board adjourn to meet at 8 o'clock p. m., at the Doane House in Champaign.

#### EVENING SESSION.

After the call to order, President Graham asked Mr. McLean to occupy the chair for the evening.

#### AGRICULTURAL DEPARTMENT.

After a prolonged consideration of Professor Davenport's communication with regard to the farm and the Agricultural Experiment Station, on motion of Mr. Raymond, it was voted that \$1,000 be appropriated, together with the \$2,000 appropriated at the June meeting of the Board to be expended under the direction of the Farm Committee.

The Board then adjourned to meet at 8:30 o'clock the next morning.

#### SESSION OF FRIDAY.

When the Board was called to order pursuant to the adjournment, the same members were present as on Thursday, except Dr. Smith.

The following resolution, offered by Mr. Morgan, was adopted:

*Resolved*, That the members of the Board proceed to examine, individually, the plans submitted for the new library building, and that each select as many sets of plans as seem most meritorious, up to the number of ten or twelve; that the Board then reassemble and the members compare notes and agree upon the plans which seem most meritorious to the majority of the members; that such selected plans be then submitted to the chief of the architectural department and the librarian of the University to examine critically and report as to any technical questions which may be involved, and as to whether they can be executed within the appropriation; and also that such chief and the librarian examine generally all the plans submitted, and if any set which has not been selected by the Board seem to them as having merits which have been overlooked, in whole or in any particular features, by the Trustees, they call the attention of the Board to the same in their report, and that the Board adjourn and as soon as the report of the experts is ready the Board reconvene for the purpose of determining the matter.

The Treasurer's report was submitted and referred to the Finance Committee, it was as follows:

## TREASURER'S REPORT.

UNIVERSITY OF ILLINOIS IN ACCOUNT WITH CHARLES W. SPALDING, TREASURER,  
AUGUST 31, 1895.

1895.	DR.	
May 31 Balance.....		\$55,148 57
June 6 Interest due January 1, 1894, contract 23, James Lowe.....	\$133 60	
7 Bond No. 3, City of Urbana, due June 1, 1895.....	1,000 00	
7 Urbana interest coupons, due June 1, 1895.....	440 00	
18 Morgan county coupons, due June 15, 1895.....	1,400 00	
21 Montgomery county bond No. 6, due June 15, 1895.....	1,000 00	
21 Montgomery county coupons, due June 15, 1895.....	480 00	
24 Champaign county coupons, due June 1, 1895.....	182 50	
25 From S. W. Shattuck, on general fund account.....	1,394 52	
July 1 Austin coupons, due July 1, 1895.....	375 00	
1 Homer township coupons, due June 14, 1895.....	375 00	
1 Champaign county coupons, due July 1, 1895.....	2,250 00	
1 Union school district coupons, due July 1, 1895.....	150 00	
3 From W. L. Pillsbury, on farm account.....	722 39	
3 Logan county coupons, due July 1, 1895.....	750 00	
3 Kankakee county coupons, due July 1, 1895.....	2,400 00	
3 Macoupin county coupons, due July 1, 1895.....	618 00	
3 Pittsfield school coupons, due July 1, 1895.....	630 00	
5 Montgomery county bond No. 11, due July 1, 1895.....	1,000 00	
5 Montgomery county coupons, due July 1, 1895.....	195 00	
5 Sangamon county coupons, due July 1, 1895.....	250 00	
5 Litchfield school coupons, due July 1, 1895.....	440 00	
8 Gallatin county coupons, due July 1, 1895.....	630 00	
8 From U. S.—quarterly Experiment Station warrant.....	3,750 00	
11 Principal contract No. 46, W. T. Gore, assignee.....	1,200 00	
11 Interest on above contract to date.....	52 00	
12 U. S. appropriation, due July 1, 1895.....	21,000 00	
15 Sangamon county bond No. 3, due July 11, 1895.....	1,000 00	
16 Sangamon county coupons, due July 11, 1895.....	150 00	
26 State appropriation for Minnesota land taxes.....	1,600 00	
26 State appropriation for salaries, etc.....	99,000 00	
26 State appropriation for additions to library.....	3,000 00	
26 State appropriation for apparatus and appliances.....	3,000 00	
25 State appropriation for material and shop practice.....	1,500 00	
26 State appropriation for cabinets.....	1,000 00	
26 State appropriation for fitting and furnishing Engineering Hall.....	5,000 00	
26 State appropriation, College of Engineering.....	15,000 00	
26 State appropriation, improvements in Chemical Laboratory.....	5,000 00	
26 State appropriation, laboratory of vegetable physiology.....	2,000 00	
26 State appropriation, fire protection.....	2,000 00	
26 State appropriation, building and equipment of Biological Experiment Station.....	2,500 00	
26 State appropriation, one-half operating expenses of above.....	1,500 00	
26 State appropriation, Astronomical Observatory and equipment.....	5,000 00	
26 State appropriation, paving street and walks.....	9,300 00	
August 1 Champaign county coupon, due July 1, 1895.....	50 00	
1 Taylorville coupons, due August 1, 1895.....	1,200 00	
2 Pike county bonds Nos. 103, 4, 5, 6, 7, 8, 9, 10 11 and 127, due July 1, 1895.....	10,000 00	
2 Pike county coupons, due July 1, 1895.....	2,730 00	
2 Mattoon coupons, due August 1, 1895.....	150 00	
5 Champaign county bonds Nos. 21, 22, 23, and 28, due August 1, 1895.....	2,000 00	
5 Champaign county coupons, due August 1, 1895.....	450 00	
7 Morgan county bond No. 3, due August 1, 1895.....	1,000 00	
7 Morgan county coupons, due August 1, 1895.....	480 00	
7 Montgomery county coupons, due August 1, 1895.....	60 00	
11 Return of '93 tax, Dale & Roise.....	15 81	
11 Return of '93 tax, Nels Olson.....	9 39	
11 Rebate of '93 tax, Pope county.....	17 12	
11 Rebate of '94 tax, Pope county.....	3 24	
13 Taylorville bond No. 1, due August 1, 1895, on option.....	1,000 00	
20 Mansfield coupons, due July 1, 1895.....	214 25	
29 From S. W. Shattuck, on general fund.....	1,820 56	
31 Interest, June, July, and August, on endowment fund, 4 per cent.....	305 09	
31 Interest, June, July, and August, on other funds, 2½ per cent.....	459 71	
		\$223,533 18
		\$278,681 75

1895.	CR.		
August	31	By amount paid out of general fund as per list of warrants attached hereto.....	\$33,136 66
"	31	By amount paid out of U. S. Experiment Station fund as per list of warrants attached hereto.....	3,789 06
"	31	By amount paid out of U. S. Experiment Station farm fund as per list of warrants attached hereto.....	865 36
"	31	By amount paid out of state appropriation for salaries as per list of warrants attached hereto.....	3,855 00
"	31	By amount paid out of state appropriation for Engineering Hall as per list of warrants attached hereto.....	4,613 94
"	31	By amount paid out of state appropriation for Natural History Hall as per list of warrants attached hereto...	216 18
"	31	By amount paid out of state appropriation for Laboratory of Natural History as per list of warrants attached hereto.....	2,317 10
"	31	By amount paid out of U. S. fund as per list of warrants attached hereto.....	2,655 44
"	31	By amount paid out of state appropriation for cabinets as per list of warrants attached hereto.....	44 25
"	31	By amount paid out of state appropriation for Engineering College as per list of warrants attached hereto....	2,430 59
"	31	By amount paid out of state appropriation for fitting and furnishing Engineering Hall as per list of warrants attached hereto.....	24 65
"	31	By amount paid out of state appropriation for building and equipment of Biological Experiment Station as per list of warrants attached hereto.....	635 00
"	31	By amount paid out of state appropriation for Biological Experiment Station as per list of warrants attached hereto.....	117 54
"	31	By amount paid out of state appropriation for Chemical Laboratory as per list of warrants attached hereto....	41 11
"	31	By amount paid out of state appropriation for Minnesota taxes as per list of warrants attached hereto.....	1,600 00
"	31	By amount paid out of state appropriation for apparatus and material as per list of warrants attached hereto...	2 85
			\$56,344 73
August	31	By amount paid out of endowment fund for Sidney bonds.....	\$4,200 00
"	31	By amount paid out of endowment fund for Macoupin county bonds.....	30,000 00
			34,200 00
			\$90,544 73
		Balances—	
		Endowment fund.....	\$21,244 90
		U. S. Experiment Station fund account.....	2,688 61
		U. S. fund.....	18,375 05
		U. S. Experiment Station farm account.....	89 10
		State appropriations—	
		Current fund.....	90,027 94
		Engineering Hall.....	420 12
		Furnishing and heating Natural History Hall.....	415 39
		Additions to library.....	3,000 00
		Cabinets.....	1,002 74
		Engineering College.....	22,569 41
		Astronomical Observatory.....	5,000 00
		Fitting and furnishing Engineering Hall.....	4,975 35
		Building and equipment, Biological Experiment Station.....	1,865 00
		Biological Experiment Station, operating expenses.....	1,382 46
		Apparatus and material.....	2,997 15
		Shop practice.....	1,500 00
		Chemical Laboratory.....	4,958 89
		Laboratory of Vegetable Physiology.....	2,000 00
		Fire protection.....	2,000 00
		Paving street and walks.....	9,300 00
			\$195,812 11
		Less overdrafts—	
		General fund.....	\$6,282 55
		Laboratory Natural History.....	1,392 54
			7,675 09
			188,137 02
			\$278,681 75

Professor Shattuck, Business Agent, presented his report as follows:

### BUSINESS AGENT'S REPORT.

UNIVERSITY OF ILLINOIS, September 4, 1895.

*Nelson W. Graham, Esq., President Board of Trustees, University of Illinois,*

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

*Paper A*, a statement of the current appropriations for the three months ending September 1, 1895.

*Paper B*, a showing of the state appropriations September 1, 1895.

*Paper C*, the same for the U. S. fund.

*Paper D*, the list of vouchers presented for audit, being numbers 1,151 to 1,650, inclusive.

### PAPER A—CURRENT APPROPRIATIONS.

June 11 and 27, 1895.	Appropriated.	Receipts appropriated.	Expended.	Balance.
Board expense.....	\$500 00	.....	\$496 13	\$3 87
Salaries for instruction { Current.....	19,305 00	.....	12,156 45	1,838 71
and for President { U. S. fund.....			5,309 84	
Salaries for services.....	2,177 42	.....	2,107 41	70 01
Buildings and grounds.....	125 06	\$15 00	230 70	.....
Fuel and lights.....	2,000 00	43 00	2,037 18	6 72
Stationery and printing.....	1,500 00	.....	1,343 90	156 10
Preparatory School.....	695 00	133 45	728 01	100 44
Mechanical department.....	356 92	384 32	732 99	8 25
Architectural department.....	98 47	1,131 50	1,229 97	.....
Horticultural department.....	13 19	96 60	109 79	.....
Agricultural department.....	2,025 00	.....	7 40	2,017 60
Military department.....	31 42	.....	31 42	.....
Laboratories.....	1,000 00	972 58	1,618 89	353 69
Library and apparatus.....	50 00	.....	14 04	35 96
Incidentals.....	546 06	43 85	442 25	147 66
<i>Sundries—</i>				
Water supply.....	250 00	.....	250 00	.....
Furniture and fixtures.....	300 00	.....	109 33	190 67
Heating apparatus.....	500 00	.....	217 02	282 98
Advertising.....	2,060 82	.....	101 13	1,959 69
Biological Station.....	446 53	.....	419 27	27 26
Art department.....	57 83	.....	40 58	17 25
Military scholarships.....	285 00	.....	285 00	.....
Minnesota lands.....	100 00	106 72	105 10	101 62
Commencement.....	200 00	.....	200 00	.....
A. Am. Agr'l Coll. and Expt. Stations.....	10 00	.....	10 00	.....
Agricultural convention.....	70 65	.....	70 65	.....
Insurance.....	62 50	.....	62 50	.....
Summer school.....	904 02	270 00	1,029 54	144 48
South farm.....	200 00	700 00	192 82	707 18
Music fees.....	.....	80 00	80 00	.....
Senator Morrill's bust.....	30 00	.....	.....	30 00
University magazine.....	800 00	.....	.....	800 00
<i>Illini</i> .....	500 00	.....	.....	500 00
Oratorical contest.....	100 00	.....	.....	100 00

## PAPER B—STATE APPROPRIATIONS.

*For the years 1893-1895.*

August 31, 1895.	Received.	Expended.	Balance.	Assigned.
Closed out.....	\$109,496 14	\$109,496 14	.....	.....
Cabinets.....	1,000 00	953 01	\$46 99	\$46 99
Furnishing and heating Natural History Hall..	6,000 00	5,654 29	345 71	345 71
Engineering building.....	160,000 00	159,579 88	420 12	420 12
Applied mechanics.....	472 00	331 81	140 19	140 19
Civil engineering.....	233 00	231 30	1 70	1 70
Botany.....	450 00	377 49	72 51	72 51
Library.....	10,000 00	10,000 00	.....	.....
Zoölogy.....	1,200 00	1,175 44	24 56	24 56
Geology.....	500 00	478 71	21 29	21 29
Buildings and grounds.....	2,100 00	2,100 00	.....	.....
Mechanical engineering.....	4,000 00	3,721 02	278 98	278 98
Municipal and sanitary engineering.....	50 00	50 00	.....	.....
Geology cases.....	300 00	286 00	14 00	14 00
Pedagogy.....	150 00	127 16	22 84	22 84
Greek.....	150 00	94 96	55 04	55 04
Woman's gymnasium.....	300 00	145 37	154 63	154 63
Total.....	\$296,401 14	\$294,802 58	\$1,598 56	\$1,598 56
Illinois State Laboratory of Natural History....	\$15,313 26	\$15,313 26	.....	.....

*For the years 1895-1897.*

<i>Taxes on lands.....</i>	\$1,600 00	\$1,600 00	.....	.....
<i>Salaries, etc.—</i>				
Heating apparatus.....	\$500 00	\$258 60	\$241 40	\$241 40
Library catalogue.....	200 00	199 92	08	08
Buildings and grounds.....	574 94	574 94	.....	.....
Art and design.....	250 00	.....	250 00	250 00
Physical culture.....	600 00	.....	600 00	600 00
School of music.....	250 00	.....	250 00	250 00
Lectures.....	1,000 00	.....	1,000 00	1,000 00
Unassigned.....	86,625 06	.....	86,625 06	.....
	\$90,000 00	\$1,033 46	\$88,966 54	\$2,341 48
<i>Apparatus and Materials—</i>				
Psychology.....	\$300 00	.....	\$300 00	\$300 00
Zoölogy.....	500 00	.....	500 00	500 00
Chemistry.....	500 00	.....	500 00	500 00
Applied chemistry.....	500 00	2 85	497 15	497 15
Geology.....	300 00	.....	300 00	300 00
Physiology.....	500 00	.....	500 00	500 00
Botany and horticulture.....	300 00	.....	300 00	300 00
Unassigned.....	100 00	.....	100 00	.....
	\$3,000 00	\$2 85	\$2,997 15	\$2,897 15
<i>Cabinets.</i>				
Geology.....	\$500 00	\$44 25	\$455 75	\$455 75
Unassigned.....	500 00	.....	500 00	.....
	\$1,000 00	\$44 25	\$955 75	\$455 75
<i>Library.....</i>	\$3,000 00	.....	\$3,000 00	.....
<i>Shop Practice,</i>				
Mechanical shop.....	\$500 00	.....	\$500 00	\$500 00
Unassigned.....	1,000 00	.....	1,000 00	.....
	\$1,500 00	.....	\$1,500 00	\$500 00



*Paper B—State Appropriations—Continued.*

August 31, 1895.	Received.	Expended.	Balance.	Assigned.
<i>Chemical Laboratory—</i>				
Salary.....	\$600 00		\$600 00	\$600 00
Changes and furniture .....	1,750 00	\$899 71	850 29	850 29
Apparatus and chemicals .....	1,100 00		1,100 00	1,100 00
Expenses .....	300 00		300 00	300 00
Unassigned.....	1,250 00		1,250 00	
	\$5,000 00	\$899 71	\$4,100 29	\$2,850 29
<i>Vegetable physiology .....</i>	\$2,000 00		\$2,000 00	
<i>Biological station .....</i>	\$2,500 00	\$675 80	\$1,824 20	\$1,824 20
<i>Operating Biological Station—</i>				
Expenses .....	\$375 00	\$336 73	\$38 27	\$38 27
Unassigned.....	1,125 00		1,125 00	
	\$1,500 00	\$336 73	\$1,163 27	\$38 27
<i>Furnishing and Fitting Engineering Hall—</i>				
Electric wiring.....	\$1,194 03		\$1,194 03	\$1,194 03
Furniture.....	2,288 64	\$55 35	2,233 29	2,233 29
Unassigned.....	1,517 33		1,517 33	
	\$5,000 00	\$55 35	\$4,944 65	\$3,427 32
<i>College of Engineering—</i>				
Machine shops.....	\$15,000 00	\$4,607 84	\$10,392 16	\$10,392 16
Equipment .....	10,000 00	1,539 08	8,460 92	8,460 92
	\$25,000 00	\$6,146 92	\$18,853 08	\$18,853 08
<i>Astronomical observatory .....</i>	\$5,000 00		\$5,000 00	
<i>Paving street, etc.....</i>	\$9,300 00	\$2 64	\$9,297 36	\$9,297 36
<i>Fire protection.....</i>	\$2,000 00		\$2,000 00	

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1894.</i>				
Before reported upon.....	\$18,500 00	\$18,500 00		
Architecture.....	500 00	470 03	\$29 97	\$29 97
	\$19,000 00	\$18,970 03	\$29 97	\$29 97
<i>Year ending June 30, 1895.</i>				
Salaries for instruction.....	\$18,865 00	\$18,865 00		
Testing laboratory .....	135 00	135 00		
Electrical engineering.....	1,000 00	1,000 00		
	\$20,000 00	\$20,000 00		
<i>Year ending June 30, 1896.</i>				
Salaries for instruction.....	\$5,309 84	\$5,309 84		
Unassigned.....	15,690 16		\$15,690 16	
	\$21,000 00	\$5,309 84	\$15,690 16	

*Paper E*, an estimate of receipts and expenses for the twelve months from September 1, 1895, to September 1, 1896.

*Paper F*, the appropriations the Board is requested to make for the three months ending November 30, 1895.

The Board is also requested to assign the state appropriation of \$3,000 for the library.

*Paper G*, is a number of bills, which the Board is requested to act upon, those of Mr. Spalding's in particular.

I should be glad if a definite contract could be made for the use of electric power, as there has been more or less friction in the settlement of bills on that account.

I have also to report that I have been unable to come to any understanding with the gas company, for the price of gas, in the future. The papers in this connection have been handed to Col. Morgan, at his request.

*Paper H*, is the inventory of apparatus and stock in the several departments of the University.

The Superintendent of Buildings and Grounds requests that the powder stored in the cannon house be placed elsewhere.

Respectfully submitted,

S. W. SHATTUCK,

*Business Agent.*

The vouchers and the statement of appropriations that should be made were referred to the Finance Committee.

The request of Professor Forbes, Director of the State Laboratory of Natural History, for appropriations to the Laboratory, was referred to the Finance Committee.

The following rules with regard to the employment of instructors in the University and their duties, were adopted, on motion of Mr. McLean:

#### INSTRUCTORS, TERM OF EMPLOYMENT AND DUTIES.

In the absence of some special arrangement, the employment of members of the Corps of Instruction will be either continuous or for a period of ten months. Those continuously employed must hold themselves in readiness for service at any time during the year and will receive their salary in twelve monthly installments. The others will receive their salary in ten installments and their employment will be from September 1st to July 1st, within which period they must at all times be in readiness for any required services.

It is assumed that all persons worthy of continuous employment will be interested above all else in developing the work of their departments, will have no interest incompatible therewith, and will give the utmost of their powers, at all times, to the promotion of that end.

The importance of rest and recreation to teachers is recognized, and it is desired that all shall have reasonable vacations and shall use their vacations rationally to promote the ends for which they are afforded; but it must not be supposed that the vacation of the Corps of Instruction extends from commencement day to the day when instruction begins in September. All members of the corps will be expected to be in actual attendance up to the first day of July, and on and after the first day of September, except upon leave extended, for special reasons, by the President of the University, and that in July and August all will keep the President notified of their whereabouts and will respond quickly to any call for service.

The Board of Trustees reserves the right to terminate services at any time, with or without notice, and employment must be accepted upon this condi-

tion. When service is terminated by the Board, notice will be given, however, at the earliest time practicable, and in case a member of the corps intends to leave the service of the University it is but fair that the President of the University should be advised at least as soon as such purpose has been determined upon. In case a resignation is presented to take effect at some future time, the Board will exercise its right to terminate the service at that time, or at some earlier date, as may seem just to all the interests involved. In case a member of the Corps of Instruction enters upon regular employment elsewhere before the termination of service here, that fact will work a termination of service and a cessation of salary here. And for any failure to comply with all of the conditions of loyal and interested service, which are an honorable obligation upon all members of the Corps of Instruction, the Board of Trustees will feel free to withhold salary so far as the interests of the University and justice to others may seem to demand.

The Committee on Finance offered the following resolution with regard to telephones:

*Resolved*, That the Committee on Finance determine upon the ornamental design for poles for the new telephone system to be erected on the campus, and that the ten telephones contracted for be located as follows, viz.: Military Hall, Mechanical Shops, Engineering Hall, President's House, Chemical Laboratory, Natural History Hall, President's office, the barns, office of Superintendent of Buildings and Grounds, the central heating station; and that the old telephones be removed when the new system is in working order, and that the Business Agent settle the bills at the agreed-upon price, provided the service is satisfactory.

The resolution was adopted.

On motion of Mr. McLean, the following appropriations were made, as asked for by the Business Agent.

<b>Sundry balances—<i>Paper A</i>—</b>		
Agricultural department.....	\$2,017 60	
Advertising and catalogue.....	1,959 69	
Senator Morrill's bust.....	30 00	
University magazine.....	800 00	
<i>Illini</i> .....	500 00	
Oratorical contest.....	100 00	\$5,407 29
Board expenses.....	\$500 00	
Salaries for instruction and President.....	25,730 00	
Salaries for services.....	3,150 00	
Buildings and grounds.....	1,000 00	
Fuel and lights.....	3,000 00	
Stationery, printing and postage.....	1,000 00	
Mechanical, architectural, and horticultural departments.....	600 00	
Military department.....	100 00	
Laboratories.....	500 00	
Library and apparatus.....	50 00	
Incidentals.....	400 00	
Heating apparatus.....	500 00	
Furniture and fixtures.....	300 00	
Water supply.....	125 00	
Military scholarship.....	22 50	
Gymnasium.....	100 00	37,077 50
Total.....		\$42,484 79

The state appropriation of \$3,000.00 was assigned for the use of the library.

It was ordered that the bill of the Treasurer, Mr. Spalding, for—

Accrued interest on Sidney school bonds.....	\$8 17
Premium on Macoupin county bonds .....	2,325 00
Accrued interest on same .....	125 00
Expenses .....	65 11
Total.....	\$2,523 28

be paid.

The bill of the Electric Lighting and Power Co. for power from July 1 to August 1, 1895, amounting to \$40.00 was ordered paid.

On motion of Mr. McLean, the matter of storing powder was referred to the Superintendent of Buildings and Grounds and to Captain Brush.

Appropriations for the State Laboratory of Natural History were made as follows:

For field work, office, and incidental expenses.....	\$375 00
For library .....	250 00
For salaries and assistance.....	912 50
For bulletins.....	250 00
For illustrations of State Entomologist's report .....	62 50
For investigation of contagious diseases of insects.....	375 00
For expenses of Biological Station (State Laboratory).....	375 00
For expenses of Biological Station (University).....	375 00

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

*Resolved*, That the Committee on Buildings and Grounds is hereby authorized, after advising with the architect and comparing the bids which have been received, and investigating the responsibilities and qualifications of bidders, to enter into a contract for the erection of a President's house with the responsible bidder whose proposition shall be found most favorable to the University.

On motion of Mr. Morgan, \$175.00 was appropriated for heating, Professor Davenport's house.

The Committee on Buildings and Grounds was authorized to extend water mains.

The Finance Committee made the following reports with regard to the Treasurer's report, and upon the vouchers of the Experiment Station, and they were severally adopted:

URBANA, ILL., September 6, 1895.

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

GENTLEMEN: Your Committee on Finance begs leave to report that it has examined the report submitted by the Treasurer, Mr. C. W. Spalding, bearing date August 31, 1895. This report shows balance on hand May 31, 1895, of \$55,148.57, and a total of balance and receipts to date of \$278,681.75.

It shows expenditures amounting to \$90,544.73; balances, \$195,812.11; overdrafts, \$7,675.09, making a total of expenditures, balances, and overdrafts, of \$278,681.75.

Respectfully submitted,

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

*Committee on Finance.*

URBANA, ILL., September 6, 1895.

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

GENTLEMEN: Your Finance Committee begs leave to report that it has examined Agricultural Experiment Station vouchers numbers 172 to 362, inclusive, and has found the same correct and correctly receipted. •

Respectfully submitted,

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

*Committee on Finance.*

The following resolution, with regard to the choice of plans for the library building, was adopted on motion of Mr. Morgan:

*Resolved*, That the twelve plans designated respectively by "America," a black fleur-de-lis, "Via Veritas Vita," a six pointed star in a circle, "Liber," "Meliora Speramus," "Libre," "Rex," a white triangle in a circle, "Veritas," "Ste. Genevieve," and "Keys," be selected as the ones which seem most meritorious to the Board, pursuant to resolution previously adopted, and that the architectural experts be requested to proceed with all practicable speed to carry out said resolution so far as the said plans are concerned.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

N. W. GRAHAM,  
*President.*

## MEETING OF SEPTEMBER 19, 1895.

The Board of Trustees of the University of Illinois met in special session in the University Parlor in Urbana, Ill., at 3 o'clock p. m., Thursday, September 19, 1895, pursuant to the following call issued by the Secretary September 14, 1895:

"By the order of the President, Mr. Nelson W. Graham, the Board of Trustees of the University of Illinois is hereby called to meet in special session at the University Parlor in Urbana, Ill., at 3 o'clock p. m., Thursday, September 19, 1895, to consider the report of the architects upon designs submitted for the new library building, and to transact such other business as may be duly presented."

There were present Messrs. Armstrong, Bullard, Graham, McLean, Morgan, Morrison, Raymond, and Dr. Smith. Absent, Governor Altgeld, Messrs. Inglis and Judy and Mrs. Flower.

On motion of Mr. Bullard it was voted that the Board hear the report of the committee of experts appointed to examine the plans submitted for the new library building.

Before this was read, however, President Draper announced that Assistant Professor Frank Zinkeisen had sent in his resignation on account of ill health. The resignation was accepted, and Mr. George Daniel Hammond, A. B., was appointed his successor at a salary of \$1,000.00 a year from September 1st.

## REPORT ON DESIGNS FOR LIBRARY BUILDING.

URBANA, ILLINOIS, September 18, 1895.

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

GENTLEMEN: The committee appointed by your body to make a careful study of the twelve selected designs for the proposed University library, begs leave to present the following report:

In accordance with your instructions the twenty-six other designs were first carefully examined and two of them were chosen for study, those marked "J'ai étudié" and "Messenger." These were subjected to precisely the same examination and criticism as the twelve designs selected by your body and especially referred to this committee.

Each one of the fourteen designs was first carefully examined to determine whether it satisfied each requirement of the program, and the results entered on a check list.

Since neither the areas of the rooms nor the number of persons using them was specified, but was left to the discretion of the architect, it became necessary to adopt a series of standards in accordance with experience in the old library, and the probable future requirements for this building.

### 1. Capacity of Library.

The book cases are required to have a capacity of 150,000 volumes. As an average of measurements in the old library, we found seven books per lineal foot of shelf. But since eight books are commonly allowed per lineal foot of shelf that ratio has been adopted. The capacity of the stack room has been determined in each case by using length of cases as shown, assuming seven shelves in height as usual, and thus allowing 112 volumes per lineal foot of double book cases shown on plan. It was found also that a convenient and reasonably economical arrangement of the cases allowed about 2.25 volumes per cubic foot of space in stack room. A larger proportion is evidence of crowding and a smaller one shows a lack of economy in arrangement.

### 2. General Reading Room.

It has been presumed that to provide sufficiently for a reasonable increase in number 175 sittings should be provided in this room, which is an increase of 55 over the number in the present library. An area of 20 square feet is allowed to each sitting, including space occupied by tables and aisles. In some of the best libraries 25 square feet is allowed, though this is perhaps luxurious.

3. The Periodical Reading Room should seat fifty persons, and the same area is allowed per sitting.

4. The Reception Parlor should seat at least thirty persons, allowing 15 square feet per sitting, as it would only be partially filled, which would make a minimum area of 450 square feet; at the very least this room should have an area of 400 square feet.

5. The Seminary Rooms should seat from twenty to twenty-five feet each, and on account of the comparatively large space occupied by the long table and the wall book cases, 25 square feet has been allowed per sitting.

6. The suites of administrative offices should be composed of rooms of proper size, easily found and accessible, arranged in proper sequence, and each suite should have its toilet room, closet, and vault, or a compartment in a common vault, or a special toilet and clothes room should be provided near the offices. Of course all these rooms must be well lighted.

The Trustees' room would sometimes be required to seat sixteen persons, arranged around a long or a cross-shaped table, and with due allowance for convenience and propriety, its area should not be less than 450 square feet. Its shape and dimensions must also conform to the desired arrangement of the table, though this latter part has not been insisted upon.

7. With due respect to economy in the arrangement and cost of the building, the central halls and corridors of the building must not be cramped, but, on the other hand, they should not be wastefully enlarged at the expense of the usable rooms in the building.

8. The stairways must be conspicuous, easily found, effective in design, and of sufficient dimensions. Two stairways are preferable to a single one, for security in case of fire.

9. The entrances on eastern and western façades should be dignified and imposing, with direct access to the central halls and stairways on main floor. This condition can hardly be fulfilled by any design having its stack room arranged as an external addition on either east or west front. But due allowance was made therefor.

10. To secure the best arrangement, it has been assumed that the general toilet rooms should be placed in the basement, with a common clothes check room on the first floor.

11. For greatest convenience in use the library room should be arranged on the first or principal floor, with the offices and seminary rooms on the second. The library rooms must be capable of being closed, but without preventing access to the offices and seminary rooms.

12. Proper and sufficient lighting of all rooms has been made the subject of special and careful examination.

13. The delivery room should have a proper oversight of the reading room so far as possible.

14. The cost of the building is limited to \$150,000.00. It is not possible to construct a strictly fire-proof building, with steel beams and tile floors, tile partitioning, iron and slate roof, and stone-faced external walls, in a good and durable manner, for less than 20 cents per cubic foot. The cost of each design has therefore been approximately determined on that basis, multiplying this price (which has been increased in some cases in order to make due allowance for a more expensive interior or exterior) by its actual total volume. Therefore, the volume of this building cannot exceed 750,000 cubic feet, taken from bottom of foundations to average height of roof. Your committee is well aware that many cheaper methods of non-burning construction are now in use for important buildings, but their durability remains to be proved by time and experience in good buildings, and it is wisest not to employ any construction that has not been proved at least equal to that now in use in good fire-proof office and public buildings.

In criticising the external walls of these designs, this committee has been guided by the following principles:

- a. The design must be well balanced, with all its parts at a common scale.
- b. The eastern and western façades must be both pleasing and satisfactory.
- c. The general reading room should be at the north end of the building.
- d. A stack room added to either eastern or western front would be somewhat objectionable.
- e. General effect of building must be noble, dignified, and strong, yet quiet and reposeful, free from pretentiousness or show.

The committee presents herewith the results of its study of each of the fourteen designs subjected to special examination.

After completing these special studies and a comparison of the results, and of the best designs, this committee begs leave to present its final conclusions, as follows:

1. That the first prize be awarded to the design marked "Via Veritas Vita," as exhibiting the best and most available design for the purpose, its plan being especially commendable.

2. That the second prize be awarded to the design marked "Ste. Genevieve," on account of its very noble and pleasing exterior, and its generally good arrangement of plan, whose defects can be remedied as suggested.

Mr. Bicknell dissents from this recommendation and would place the design marked "Meliora Speramus" second, on account of its plan, somewhat preferable in arrangement, placing library rooms on first floor.

3. That the third prize be awarded to the design marked "Meliora Speramus," on account of its good plan and capability of future enlargement as may be required, as well as its effective exterior.

Mr. Bicknell dissents and would place the design marked "Ste. Genevieve" third, because its library rooms are on the second floor, and it has other serious defects of arrangement.

4. That the fourth prize be awarded to the design marked "America" for its effective exterior and interior, though some rooms are too small. These can be enlarged as suggested.

For your information, the committee appends to this report a full statement of the results of the examination of each one of the twelve designs referred to it for consideration, and also of the two additional designs, which were thought worthy of equally careful examination.

Very respectfully submitted,

N. C. RICKER,  
JAMES M. WHITE,  
PERCY F. BICKNELL,

*Committee.*



On motion of Mr. Raymond, it was voted that premiums be awarded as recommended by the committee of experts. The envelopes containing the names of the competitors were then opened and it was found that the first premium had been awarded to—

Edward G. Bolles, Springfield, Ill.

The second to Arms & Hart, Chicago, Ill.

The third to Clinton J. Warren, Chicago, Ill.

The fourth to Messrs. Osgood & Stone, Grand Rapids, Mich.

On motion of Mr. Morrison, it was voted that when the Board adjourn it should adjourn to meet at 10 o'clock a. m., Wednesday, September 25, 1895, in the office of the Superintendent of Public Instruction, Springfield, Ill.

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

*Resolved*, That the Business Agent be instructed to purchase ladders, buckets, hose, and ten Babcock fire extinguishers, to be distributed as the President may deem best; and that the Superintendent of Buildings and Grounds take charge of the same and provide suitable shelves and housing.

*Resolved*, That the said Superintendent of Buildings and Grounds organize his janitor force into a fire company prepared for instant action.

On motion of Mr. Morrison, it was voted that so much of the state appropriation of \$2,000 for fire protection as may be needed be appropriated for the purchase of ladders, buckets, etc., enumerated in the foregoing resolution.

The Board then adjourned to meet at 8 o'clock in the evening.

#### EVENING SESSION.

On motion of Mr. Morrison, it was voted that the Committee on Buildings and Grounds and the Business Agent make a contract with the Electric Lighting and Power Co. for light and power furnished for one year from August 1, 1895.

A resolution offered by Mr. Morrison, proposing to give a name to the avenue running south from military hall, was referred to the Committee on Buildings and Grounds for a report at the next meeting.

The Finance Committee made the following report:

URBANA, ILL., September 11, 1895.

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

GENTLEMEN:—Your Committee on Finance, to which were referred the vouchers submitted by the Business Agent, begs leave to report that it has examined vouchers Nos. 1,651 to 2,125 for the quarter ending September 1, 1894; also vouchers Nos. 1 to 500 for the quarter ending December 1, 1894; and also vouchers Nos. 501 to 1,150 for the quarter ending March 1, 1895, and has found the same correct and correctly receipted.

Respectfully submitted,

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

*Committee on Finance.*

The Secretary presented a bill amounting to \$4.50 from R. A. Webber, for continuation of abstract of title. The bill was ordered paid from the general fund.

The following resolution, offered by Mr. Morrison, was, on his motion, adopted:

*Resolved*, That all moneys belonging to the University, from whatever source derived, should be credited to some fund, either general or special, and that all appropriations should be for the full amount needed for the objects named. This resolution to take effect from and after December 1, 1895.

The following resolution offered by Mr. Graham was, on his motion adopted:

*Resolved*, That President Draper, Mr. Morgan, and Mr. Bullard be and are hereby appointed a committee to investigate the business methods of the University, provided for in the rules of the Board of Trustees as well as any, if any such there be, not so provided for, and report to the Board the result of their investigation with such recommendations for the future as in their opinion will promote greater efficiency, economy, and safety in the management of the material interests of the University.

It was voted that the Superintendent of Buildings and Grounds, Mr. G. W. Graham, be authorized to pay the janitor in University Hall at the rate of \$35.00 per month, from the time he began work.

On motion of Mr. Morrison, it was voted that the bond of the Business Agent be \$10,000 instead of \$15,000 as ordered at the meeting of June 27, 1895, and that Professor S. W. Shattuck be re-appointed Business Agent for the year beginning September 1, 1895.

An appropriation of \$200, from the general fund, was made for use of the librarian in cataloguing.

An appropriation of \$75 was made for an assistant to Professor Frederick.

The purchase of five swords and belts for the military department was authorized, and payment for them from the general fund.

President Draper presented the following report with regard to the examination of medical students:

URBANA, ILLINOIS, Sept. 19, 1895.

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

GENTLEMEN: The undersigned committee, directed at your June meeting to report a plan for medical entrance examinations and suggestions in relation thereto, begs respectfully to submit the following:

We advise that a Faculty Committee on examinations be appointed by the President of the University, whose duty it shall be to provide questions, in accordance with requests from the State Board of Health; to conduct examinations or assist in their management at the call of the Board; to mark examination papers, or to revise such markings if made by other members of the Faculty, and to sign reports on examinations as representatives of the Faculty of the University.

We submit herewith, with our approval, a copy of a blank application for examination, as prepared and printed by the State Board of Health.

We advise that the time and place of holding examinations be left wholly to the judgment of the said State Board of Health, but that the Trustees re-

quest that these be so regulated that the University shall have at least two weeks' notice in advance, and if practicable, that for the present no more than three examinations per annum may be made necessary.

A. S. DRAPER,  
*Chairman of Committee.*

The report was approved and its recommendations adopted.

Professor D. W. Shea handed in his resignation, and it was accepted, to take effect when President Draper could arrange for taking care of his classes.

A request was received from Captain W. R. Courtney, Company D, Fifth Infantry, Illinois National Guard, asking permission to use the rifle range for the present season. The Secretary was directed to write Captain Courtney that the request could not be granted, inasmuch as the tenant of the south farm, on which the range is, objects to such use.

Mr. Morgan reported from the Committee on Buildings and Grounds that the work of paving, making walks, and carrying forward other improvements in charge of the committee, was progressing satisfactorily. He said further that he had asked permission of the Urbana and Champaign Electric Railroad Company to extend across their track the walk running from Green street to Military Hall, and that the request had been cheerfully granted.

He also stated that he had received a communication from B. F. Harris, Jr., making the following proposition in regard to furnishing gas:

"I propose to furnish gas at the rate of \$1.40 per 1,000 cubic feet for all gas used up to one million feet per year. When the total yearly consumption reaches or exceeds one million feet, the price on the whole amount to be \$1.25 per 1,000. When the total yearly consumption reaches or exceeds one million and a half feet, the price on the whole consumption to be \$1.00 per 1,000 feet."

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

*Resolved*, That it is the intention of the Board that the Superintendent of Buildings and Grounds shall have general supervision of the greenhouse and gardener and of the plants and flowers about the buildings and grounds of the University, excepting, however, the scientific instructions of Doctor Burrell to the gardener, which are paramount as to the cultivation and propagation of the flowers and plants.

On motion of Mr. McLean, it was voted that Mr. Armstrong see the Illinois Heating and Lighting Company, of Chicago, and invite a proposition to heat and light the University, and that he submit such proposition to the Board at its next meeting.

On motion of Mr. McLean, it was voted to extend the sewer pipe along the creek through the Arboretum.

The following resolution, offered by Mr. Morrison, was adopted:

*Resolved*, That the design submitted by Edward G. Bolles for a library building be referred to the Committee on Buildings and Grounds with directions to secure the coöperation of Governor Altgeld, and then advise with Mr. Bolles touching some modifications of the design; and that such committee have authority to contract with said architect for plans and specifications

and for supervision of the construction of the building, if in their opinion he has judgment and experience to satisfy his employment in that capacity, and if not to make such other arrangement for architectural assistance and for the erection of the building as it may think proper; and that the committee shall then proceed to secure bids for the construction and make a contract therefor which shall be as favorable to the University as possible, and report all proceedings to this Board whenever practicable.

It was then voted to reconsider the motion by which the Board had voted to adjourn when it adjourned to meet in Springfield, September 25th, and the original motion was thereupon lost.

The Board adjourned.

W. L. PILLSBURY,

*Secretary.*

N. W. GRAHAM,

*President.*

## MEETING OF DECEMBER 10, 1895.

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, Illinois, at 3 o'clock p. m. Tuesday, December 10, 1895.

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

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

President Draper, being called upon for his report, made an informal statement, verbally, with regard to the condition of affairs in the University since the last meeting of the Board.

He then made recommendations as follows:

I recommend that the fourth paragraph in the rules with regard to the employment of instructors in the University and their duties (see page 175, report of meeting of September 4, 1895,) be amended to read as follows:

## INSTRUCTORS' TERM OF EMPLOYMENT AND DUTIES.

It is the desire and intention of the Board that all competent and effective teachers shall feel secure in their positions and remain permanently in the service of the University, but experience shows that it is necessary to reserve the legal right to terminate service at any time for any reason which in the judgment of the Board may be sufficient, and all employment must be accepted upon this condition. No summary dismissal will be made except for conduct prejudicial to the University, nor without opportunity for a hearing, if the facts are disputed. When service is terminated by the Board for other cause than misconduct, notice will be given at the earliest time practicable; and, in case a member of the corps of instruction intends to leave the service of the University, it is but fair that the President of the University should be advised, at least as soon as such purpose has been determined upon. In case a resignation is presented to take effect at some future time the Board will exercise its right to terminate the service at that time, or at some earlier date, as may seem just to all the interests involved. In case a member of the corps of instruction enters upon regular employment elsewhere before the termination of service here, that fact will work a termination of service and cessation of salary here. Absence from ordinary service in the University, for any other cause than sickness, must be with the approval of the President, if for less than ten days; and if for a longer time, with the approval of the Board of Trustees. And for any failure to comply with all the conditions of loyal and interested service, which are an honorable obligation upon all members of the corps of instruction, the Board of Trustees will feel free to withhold salary so far as the interests of the University and justice to others may seem to demand.

A. S. DRAPER,  
*President.*

This recommendation was adopted.

## DEPARTMENTS OF PHYSICS AND ELECTRICAL ENGINEERING.

Touching the instructional force, I recommend;

1. That for the rest of the year, at least, the work in the department of physics, be divided into two departments, to be known as (a) physics, and (b) electrical engineering.

2. That Mr. Fred A. Sager, instructor in physics, be promoted to the rank of assistant professor of physics, with a salary of \$1,100 per year, and that for the rest of the year, or until otherwise ordered, he be placed in charge of the department of physics.

3. That Mr. Burton E. Moore be appointed instructor in physics at a salary of \$80 per month until the first of July next.

4. That assistant professor Bernard V. Swenson be placed in charge of the department of electrical engineering for the rest of the year.

5. That William Esty, instructor in electrical engineering, be promoted to the rank of assistant professor in electrical engineering at a salary of \$1,100 per year.

6. That the foregoing action take effect from November 1, 1895.

7. That authority be given the president to employ an instructor in electrical engineering through the winter and spring terms at not to exceed \$80 per month.

A. S. DRAPER, *President*.

These recommendations, with regard to the departments of physics and electrical engineering, were referred to the Committee on Instruction, and later, upon approval of this Committee, were adopted by the Board.

## LIBRARY POLICY.

For the purpose of determining the library policy of the University, it is recommended—

1. That all books, pamphlets, maps, etc. (other than account books), purchased with university moneys, shall be deemed to belong to the University library.

2. That all parts of the library shall be in the custody of the Librarian and he shall be responsible for the condition of the same.

3. That all reference books and all periodicals, magazines, and newspapers shall be made as easy of access as practicable to all patrons of the library, and that no limitations not necessary to their preservation shall be placed upon their free use.

4. That all other books, except such as are referred to in the next paragraph, shall be delivered for use by the Librarian or assistant only, upon a proper call.

5. That books which are purely technical and relate only to the work of a single department may be taken to that department under such regulations and for such time as the Librarian may determine; but he shall not thereby cease to be responsible for their safe keeping and proper use.

6. The Librarian may make and enforce such rules for the government of the library as are approved by the President.

A. S. DRAPER, *President*.

These recommendations were referred to the Committee on Library and later during the session of the Board were returned with the approval of the Committee, and were then adopted by the Board.

## APPROPRIATIONS NEEDED.

Touching the necessity of appropriations for the different University departments, I have this to say:

At the June meeting of the Board there was appropriated, from the special appropriation of \$30,000 for extending the engineering equipment, the sum of \$15,000 for the purpose of building a new shop. I am not advised as to whether this sum will complete the building. The report of the Committee on Buildings and grounds will doubtless show this. At the same time there was appropriated from the same special appropriation the sum of \$10,000 to be expended this year in extending the engineering equipment. The chiefs of the engineering departments allotted this sum between themselves. They then prepared a schedule of articles the purchase of which they recommended. This schedule was examined by the chairman of the Committee on Buildings and Grounds and myself, and was partially approved and partially disapproved. So far as the articles were approved they have generally been purchased. The fact that so many were disapproved has left a considerable balance to the credit of this fund. The different departments now file applications for additional purchases. I am glad to be able to say that I think they are more conservatively made than heretofore. I presume that the balances remaining unexpended, to which I have referred, will be reappropriated, if necessary, for the same purposes to which they were originally appropriated.

I submit a communication from Professor Ricker earnestly recommending the purchase of reference books for the College of Engineering, at a cost of \$212.50. There is a balance of \$250 which was set aside for this purpose. This purchase was not approved last summer, pending the settlement of general library policy in the University. The larger number of books in the list are already in the library, but they are generally mathematical works and are constantly referred to by others than engineers, so they cannot properly be removed from the library. It is doubtless true, also that they are of special importance to engineers, being needed for almost daily reference. All of the engineering chiefs are intensely interested in this matter and I think their opinions touching it are entitled to great respect. I am therefore led to recommend that the appropriation be made, as requested. Probably no action is necessary.

The department of architecture requests leave to expend \$397 for apparatus. Under the arrangement to which I have alluded there is a balance of \$873 to their credit, so no action is necessary.

The department of theoretical and applied mechanics requests an appropriation of \$1,500. There is a balance of \$1,600 to the credit of this department, so no special action is necessary.

The department of physics and electrical engineering combined requests appropriations amounting to \$1,135. There is a balance to the credit of this department of \$1,009.45. I recommend the appropriation of \$125 more, if necessary, and that the same be paid from the special appropriation for engineering equipment.

The department of mechanical engineering requests appropriations aggregating \$1,652.70. There is a balance to the credit of this department of \$656. The purpose for which this appropriation is asked covers the entire reorganization of the new shop, extending to the purchase of new machinery, the transmission of power from the old shop to the new, the installation of old machinery, the construction of lockers, the purchase of tools, of office and lecture room furniture, etc. I see no alternative to this, and recommend the appropriation of \$1,000 for the purpose.

I had hoped that we might be able to hold the remaining \$5,000 of the special appropriation of \$30,000 intact for the next year, but if we are obliged to make this extra appropriation, as I think we are, it seems to me that it should be charged against that fund.

There is a balance of \$750 to the credit of the special appropriation for materials for shop practice for the current year. I recommend that the sum of \$500 thereof be appropriated for the coming quarter.

The civil engineering department requests an appropriation of \$12 for additional window shades. I recommend that it be granted and charged against the special appropriation for furnishing engineering hall.

Applications are herewith submitted from the junior class for the appropriation of \$200 to aid in the publication of the *Illio*, and also from the board of the *Technograph* for a like sum to aid that publication. It has been customary, I think, to appropriate \$100 to each of these purposes. I recommend that that course be pursued now.

I transmit an application from the professor of physical training for an appropriation of \$220 for additional apparatus in that department. There was no apparatus in this department at the beginning of the year. An appropriation of \$600 was made last summer for this purpose. It had to cover apparatus in both the men's and women's departments of physical training, although the women's department had had the benefit of a balance of \$100 from a former appropriation. I am glad to be able to say that I think the work in both the men's and women's departments has fallen into excellent hands. There is manifest intelligence, energy, and new interest about it. The equipment for these departments is nothing compared with that of other similar institutions. It can hardly be said that they are respectably housed. In view of all the circumstances I respectfully recommend the appropriation of the sum asked for by Professor Everett.

I respectfully recommend the appropriation of \$170 to defray the expenses of inspecting high schools.

I transmit a request from the professor of military science asking for an appropriation of \$65 for the purchase of a silk flag (national colors) for the University Battalion. The colors now on hand are entirely worn out. I recommend that the request be granted.

I transmit also a request from the professor of applied chemistry, asking for an appropriation of \$150. Fifty dollars of this is for heating a room which has been arranged for the photographic work, and the other \$100 for expenditures made at my instance for perfecting a photographic outfit for University purposes. I recommend that the appropriation be granted.

Professor S. A. Forbes requests an appropriation of \$200 for furnishing a room in Natural History Hall. This room was until recently occupied by Professor Krohn. He has vacated it and the furniture which he used has been moved to the room he now occupies. It is necessary to do more than furnish the room in the ordinary meaning of the term. It is to be used for entomological purposes, and some special fixtures and necessary plumbing are requisite. I respectfully recommend that the appropriation be made.

I have received several very urgent requests for books in the different departments of the College of Literature and Arts. I have sifted these requests to the point of ascertaining what books are "imperatively necessary to the proper carrying on of the work in this college during the next term and are not owned by the University." With this very severe treatment the list has been reduced to a cost of \$184.40. I respectfully recommend the appropriation of \$200 for this purpose.

I make the foregoing recommendation upon the condition and understanding that no specific purchases shall be made without my special approval. In the discharge of this duty I should of course be glad to be associated with any members of the Board who can give it their attention, for I think all purchases should be scrutinized by some general University authority and the more the better. Experience shows that heads of departments will make recommendations and purchases without regard to other interests. They unduly magnify the importance of the interests under their own charge. This is very naturally so and perhaps they ought not to be criticized for it. There has unquestionably been too much haste in making purchases here, and there has also been frequent duplication of the same material. I am sure great advantage resulted to the University last summer through the operation of the principles to which I allude.



From the foregoing I do not wish to be understood as saying that we have more than the needed equipment in our several departments. We have more than we need in some lines and far less in others. There is no duty connected with University administration which calls for more deliberation and sound judgment; for more of expert knowledge on the one hand and of general knowledge on the other, for more of both department enthusiasm and general University conservatism, than the duty of purchasing materials for equipment.

A. S. DRAPER,

*President.*

This statement with regard to appropriations was referred to the Committee on Finance, and later during the session of the Board was reported back with the approval of the Committee, and thereupon the recommendations were adopted, and the appropriations asked for were made.

The Board then adjourned to meet at 7:30 o'clock p. m.

#### EVENING SESSION.

When the Board met pursuant to adjournment, the Committee on Buildings and Grounds presented the following report:

##### THE NEW LIBRARY BUILDING.

URBANA, ILL., December 10, 1895.

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

GENTLEMEN: The Committee on Buildings and Grounds makes the following report in regard to the proposed library building in compliance with the following resolution, adopted by the Board of Trustees on the 19th of September last:

*“Resolved, That the design submitted by Edward G. Bolles for a library building be referred to the Committee on Buildings and Grounds with directions to secure the coöperation of Governor Altgeld, and then advise with Mr. Bolles touching some modifications of the design, and that such Committee have authority to contract with said architect for plans and specifications and for supervision of the construction of the building, if in their opinion he has judgment and experience to justify his employment in that capacity, and if not, to make such other arrangements for architectural assistance and for the erection of the building as they may think proper; and that the Committee shall then proceed to secure bids for the construction and make a contract therefor, which shall be as favorable to the University as possible, and report all proceedings to this Board whenever practicable.”*

The Committee went to Springfield for the purpose of securing the coöperation of Governor Altgeld and also to advise with Mr. Bolles, as instructed.

The interview with Mr. Bolles, which first took place, resulted in his declaring that he was inexperienced in the construction of buildings, and that without assistance he would be unable to carry into execution the design for the library building which he had presented, and which received the approval of the Trustees as to the choice of the premiated designs that had been submitted under the call; whereupon it was stated to Mr. Bolles by the Committee that his design, specification, and estimated cost being as complete as he could make them the interview might be terminated. But Mr. Bolles then introduced a gentleman as a partner who had been a practical constructor, and thereupon claimed that with his assistance he would be quite able to construct the building satisfactorily.

The Committee not deeming it advisable to allow Mr. Bolles to select for them a constructor, and because of their further instructions from the Trustees to consult with Governor Altgeld, declined to consider Mr. Bolles' suggestion and terminated the interview.

On the evening of the same day, September 25th, the Committee called upon Governor Altgeld at the Mansion, and thoroughly considered the situation and the designs which had been most approved; whereupon Governor Altgeld presented the following resolution, which was seconded by Mr. Morrison:

*Resolved*, That all of the plans for the library building presented to the Board be and are hereby rejected.

The resolution was unanimously adopted.

The following resolution was presented by Governor Altgeld, and on motion was unanimously adopted.

*Resolved*, That the Committee do at once employ an architect to draw plans and specifications for the new library and museum building, embodying in such plans any feature that may be thought desirable in any of the sketches that the Board now has, and embodying in such plans such other features as the Committee may suggest, and that when plans and specifications have been presented that are entirely satisfactory, then the Committee do at once proceed to take bids and let the contracts.

On motion, Mr. Morgan and Mr. Morrison were appointed a sub-committee to confer with one or more architects relative to plans and specifications and to report to the Committee at the earliest practicable moment with their recommendation as to who should be engaged to make out new plans and take charge of the construction of the library building.

On motion, the Committee adjourned, subject to call of sub-committee.

On the 30th of September the sub-committee met at Chicago and had an interview with prominent architects, and on the 1st of October, after a second interview with D. H. Burnham & Co., an understanding was reached and a formal proposition was made by Burnham & Co. to the sub-committee as follows, the understanding being that if satisfactory to the Buildings and Grounds Committee it would be formally accepted:

October 1, 1895.

*Mr. Richard Price Morgan and Mr. N. B. Morrison, Sub-committee of the Buildings and Grounds Committee of the University of Illinois,*

GENTLEMEN: For five per cent. of its actual cost and our traveling expenses, we will design and supervise the library building proposed to be erected by you, and we agree that our traveling expenses shall not exceed three hundred dollars.

We will proceed at once with plans, and will prepare and perfect a design satisfactory to the Trustees at the earliest practicable moment.

Yours very truly,

D. H. BURNHAM & Co.

After receiving the approval of Messrs. McLean and Raymond the proposition was formally accepted in the following letter:

October 4, 1895.

*D. H. Burnham & Co., Architects, The Rookery Building, Chicago, Illinois,*

GENTLEMEN: I am pleased to inform you that your proposition to this Committee to design and supervise the construction of the library building, proposed to be erected at Urbana for the University of Illinois, is accepted.

As considerable delay has already occurred through the effort of the Trustees to obtain a satisfactory design by inviting competitive plans, the Committee respectfully urges as prompt action on your part as feasible.

Although not a member of this Committee, Governor Altgeld is *ex officio* one of the Trustees of the University. He has manifested a decided interest in regard to the character of this building, viz., that it shall be fire-proof, thoroughly well adapted to the purposes for which the appropriation was made, and also he has a preference in regard to the exterior lines of the building.

Ever since the incumbency of Governor Altgeld he has been a warm friend of the University of Illinois, and has in every way practicable exercised his

influence and authority to promote its welfare. For these reasons, briefly stated, I feel safe in saying that the Board of Trustees would be pleased to have you consult with him as soon as you may have made preliminary examination of the grounds of the University and made one or more sketches of the building.

If, when you are ready to see the Governor, as suggested, you will kindly give me two or three days' notice, I will call a meeting of this Committee at Chicago or Springfield, as you may elect, to meet with the Governor and yourself.

In making acknowledgement of this letter please state when you expect to be at the University, as I desire, if I can do so, to meet with you there.

Yours very truly,

RICHARD P. MORGAN,

*Chairman Buildings and Grounds Committee, University of Illinois.*

On the 4th of October the Committee received the following telegram from Mr. Burnham:

"Governor Altgeld sent for me yesterday. He urges quick action. Can you send to-day general instructions to enable me to commence preliminary study. Have wired President Draper also."

In reply to this telegram the Committee responded as indicated in the following letter:

OCTOBER 4, 1895.

*D. H. Burnham & Co., The Rookery Building, Chicago, Ill.,*

GENTLEMEN: Just as I finished a letter to you to-day I received your telegram, and immediately telegraphed to you as follows:

"For reply to your telegram, please see letters by first mail."

You asked in your telegram for "general instructions to enable you to commence preliminary study."

I enclose herewith a copy of the invitation which was sent out to the architects who were invited to present designs for the library building in competition, which will give you a general idea of the character of the building contemplated. This, with what I have stated in my first letter to-day, embraces, together with the map of the University grounds giving the contour lines, which I have directed to be sent to you, all of the data I feel prepared to present at this time for your consideration, and I trust they will be sufficient for your purposes until you have made examination of the site adopted by the Board for the building, and also the site to which preference was given by some members of the Board, as it is possible you may prefer a different location to that selected, and should you do so, I believe the Board of Trustees would concur with you, and especially so, as any location you might select would have reference of course to the plan for landscaping the University grounds, which you have kindly proffered to make.

It seems essential that a conference in person should be had as soon as possible between Dr. Draper, yourself, and the sub-committee of the Buildings and Grounds Committee, and it seems to me that the best place for the conference would be at the University.

Should this suggestion meet with your approval, I will arrange for any date agreeable to you.

Yours very truly,

RICHARD P. MORGAN,

*Chairman Buildings and Grounds Committee, University of Illinois.*

On the 12th of October the Buildings and Grounds Committee met with Mr. Burnham and President Draper at the University and took into consideration the preliminary sketches which Mr. Burnham had to present, after which for some days the Committee waited the further action of Mr. Burnham in the preparation of a design.

Being unofficially informed that the appropriation for the library building would not be available until spring, our Committee addressed a letter of inquiry to the State Treasurer, and received the following reply from the Auditor:

OCTOBER 19, 1895.

*Richard P. Morgan, Esq., Dwight, Ill.,*

DEAR SIR: Your favor of 17th instant addressed to the State Treasurer has been referred to this office. In reply to same will say:

I am of opinion that no funds for the payment of appropriation for library building of the state University will be available until about the 1st of May next.

Yours truly,

DAVID GORE,

*Auditor Public Accounts.*

After receiving this letter the Committee wrote to Mr. Burnham, as follows, on the 23d of October:

"Hitherto we have endeavored to press forward rapidly in the selection of a design for the library building, but while that is desirable, it should not be done at the expense of thorough consideration, and we think such an error would be inexcusable now that we know that our funds will not be available until about the 1st of May next."

Upon notice from Mr. Burnham, on the 25th of October, that he had the plans ready for the Committee to examine, the sub-committee went to Chicago on the 28th of October to examine the same, from which place the sub-committee repaired to Springfield, and on the 30th instant again consulted Governor Altgeld as stated in the following letter:

OCTOBER 31, 1895.

*Hon. Alexander McLean, Macomb, Ill.,*

DEAR SIR: I have just returned from Springfield, where I met Mr. Morrison, and last evening we had a conference with the Governor with reference to the sketches that Mr. Burnham has furnished for the ground plan of the library building. Our consideration of the matter was protracted to a late hour, and the principal result that I am now able to report to you, is that it was substantially concluded that instead of having a full basement story to the building, and a main and a second floor, as hitherto contemplated, it would be better, if feasible, to have no more than a sub-basement to the building sufficient for the steam pipes, etc., and establish the elevation of the first floor at about five feet above the natural surface of the ground. The first floor to have sufficient area to contain the reading room, the stack room, and executive offices with details. The ceilings to be about seventeen feet high. The second or upper floor, to be used for the museum, art gallery, etc. The considerations were, that in this way the cubic capacity of the building, which measures its cost, could be reduced, and the facility with which the students could reach the library, and also the executive officers and their offices, would be greatly enhanced over any other plan yet considered.

Unfortunately for us, Mr. Burnham was called to Philadelphia and could not meet with us, but I telegraphed last night to the firm to send some qualified person to Springfield to-day to see the Governor and review with him our work of last night as to feasibility, etc.

Knowing you would be interested to know briefly what is taking place, I take pleasure in sending you this account of it.

Yours truly,

RICHARD P. MORGAN,

*Chairman Building and Grounds Committee, University of Illinois.*

In compliance with this letter, Mr. Weber, of Burnham & Co., went to Springfield and had further conference with Governor Altgeld, after which the work of preparing designs continued.

On the 18th of November the following letter was addressed by the Committee to Messrs. Burnham & Co., it being advised that two designs were being prepared:

NOVEMBER 18, 1895.

*Mr. D. H. Burnham, Rookery Building, Chicago.*

MY DEAR SIR: There will be a meeting of the Trustees at the University about the 10th or 12th of December, of which you will be given due notice.

In conformity with your agreement to design and supervise the construction of the library building for the University, the Board will doubtless expect you to be present at that meeting, having with you perfected plans, together with specifications and estimates of cost—briefly I may say, all of the data necessary to enable an immediate call for proposals for the construction of the building, should the Trustees be satisfied to do so.

Whatever may have been said to you by this Committee in regard to any plan for the library building since your services were engaged, you will kindly accept as suggestive only, because the design is to be yours, and as stated in your letter of October 1st, "satisfactory to the Trustees." While this is true, and perhaps you may not be able to concur with the suggestions which have been made as the result of a recent conference between Governor Altgeld and the sub-committee, still it is expected that the design last suggested to you by the Governor will be as completely and carefully perfected in every respect for presentation to the Trustees as your own design, should you present an alternative.

Whenever you are prepared, and if convenient to you to do so, this committee would be pleased to have you afford opportunity to the Trustees who live in Chicago to see the plans, viz.: Governor Altgeld, Dr. Julia Holmes Smith, 499 Dearborn avenue; Mrs. Lucy L. Flower, 361 Superior street, Hon. J. E. Armstrong, Englewood.

The Committee would also like to have you consult freely with President Andrew S. Draper in regard to the sub-divisions of the building, because the Trustees would without doubt readily confirm any disposition of the space that you and President Draper might agree upon.

This Committee and also the Trustees as a Board are extremely desirous that at the December meeting a design shall be decided upon and a call made for proposals to construct the building.

Yours truly,‡

RICHARD P. MORGAN,

*Chairman of Committee on Buildings and Grounds.*

Your Committee is informed that Mr. Burnham will be at the University on Wednesday morning, the 11th inst., with perfect designs.‡

Respectfully submitted,

RICHARD P. MORGAN,  
N. B. MORRISON,  
ALEXANDER McLEAN,  
ISAAC S. RAYMOND,

*Committee on Buildings and Grounds.*

The action of the Committee as set forth in this report was approved.

President Draper made a statement with regard to the purchase of a storage battery from The Ford-Washburn Co., of Cleveland, Ohio, and was authorized to receive the goods purchased from aforesaid firm upon its giving an indemnifying bond in terms and amount sufficient to protect the interests of the University and satisfactory to him.

A committee from the Chicago College of Pharmacy presented the following communication:

THE CHICAGO COLLEGE OF PHARMACY,  
CHICAGO, December, 10, 1895.

At an adjourned semi-annual meeting of the members of the Chicago College of Pharmacy on Tuesday, November 12, 1895, a majority of the members of the College being represented, the following motion was offered and carried unanimously. That a committee of five, consisting of the President, Secretary, Actuary, Chairman of the Business Committee, and Senator Thiele be appointed and instructed to wait upon the Trustees of the University of Illinois and tender to them the title and property of the Chicago College of Pharmacy upon such conditions as may be approved at the adjourned meeting of the College to be held January 14, 1896.

W. B. DAY,  
*Actuary.*

After a somewhat lengthy interview with this committee and discussion the President was directed to appoint a Committee to investigate the proposition, and report to the Board at its next meeting. Messrs. Draper and Armstrong, and Dr. Smith were appointed such committee.

It was voted to request Governor Altgeld to issue to Charles Wesley Groves, a graduate from the University in the class of 1880, a commission as brevet captain in the Illinois National Guard.

It was voted that proposed changes in the catalogue should be referred to the Committee on Instruction, with power to act.

A communication from Professor Breckenridge, asking that he be relieved from his duty as Superintendent of Heating, but without reduction of salary, was referred to the Committee on Buildings and Grounds, with power to act.

The claim of the Garvin Machine Company for damages to a milling machine loaned the University was referred to the Finance Committee for investigation.

A communication was received from Professor Breckenridge, asking that the Board authorize the purchase of twelve car loads of coal from such mines of the state as might be determined by the Business Agent and the professor of mechanical engineering, and the purchase of the coal was authorized.

A communication was received from Professor Breckenridge concerning the manufacture of the "Technical School Wood Lathe," a machine which had been designed and perfected in the University machine shops. This communication was referred to the Committee on Instruction. Subsequently this committee reported recommending that the designer of the lathe be permitted to make such disposition of the design (by patenting it or otherwise) and for its manufacture as he should deem desirable, but that the University should have no concern or interest therein; and the recommendation of the Committee was approved.

President Draper presented the following report from the Agricultural Experiment Station:

UNIVERSITY OF ILLINOIS, December 10, 1895.

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

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

*Paper A* is a statement of expenditures for the quarter ending September 30, 1895.

*Paper B* is a statement of expenditures for the current quarter, ending December 31, 1895.

*Paper C* is a list of warrants drawn, Nos. 1 to 83, inclusive, for the quarter ending September 30, 1895, and is accompanied with vouchers for the same for audit.

*Paper D* is a statement of appropriations asked for the current and next quarters.

## PAPER A—STATEMENT OF EXPENDITURES, QUARTER ENDING SEPTEMBER 30, 1895.

Board expense .....	\$12 00
Books and publications .....	49 99
Botanical apparatus .....	44 38
Buildings and repairs .....	15 45
Bulletins and reports .....	40 00
Chemical apparatus .....	253 81
Fuel and lights .....	11 85
Incidentals .....	77 50
Printing, stationery, and postage .....	25 95
Salaries .....	1,660 00
Seeds and trees .....	14 29
Tools and supplies .....	166 80
Wages .....	1,247 01
Total .....	\$3,619 03

## PAPER B—STATEMENT OF APPROPRIATIONS, EXPENDITURES, AND BALANCES FOR THE QUARTER ENDING DECEMBER 30, 1895.

	Appropriated.	Expended.	Balances.
Board expense.....	\$40 00	.....	\$40 00
Books and publications.....	225 00	\$155 50	69 50
Botanical apparatus.....	25 00	.....	25 00
Buildings and repairs.....	25 00	3 10	21 90
Bulletins .....	300 00	.....	300 00
Chemical apparatus .....	50 00	.....	50 00
Fuel and lights .....	100 00	.....	100 00
Incidentals .....	25 00	3 85	21 15
Meteorological apparatus .....	.....	9 35	.....
Printing, stationery, and postage .....	25 00	1 60	23 40
Salaries .....	1,660 00	1,106 65	553 35
Seeds and trees .....	25 00	.....	25 00
Tools and supplies .....	200 00	8 25	191 75
Wages .....	1,000 00	686 62	313 38
Wood durability experiment.....	50 00	25 00	25 00
Total.....	\$3,750 00	\$1,999 92	\$1,750 08

## PAPER D—ESTIMATES.

<i>Quarter ending December 31, 1895.</i>	
From general fund—	
Meteorological apparatus .....	\$10 00
Wages .....	50 00
Total .....	\$60 00
<i>Quarter ending March 31, 1896.</i>	
From general fund—	
Board expense .....	\$40 00
Books and publications .....	50 00
Botanical apparatus .....	50 00
Buildings and repairs .....	25 00
Bulletins .....	800 00
Chemical apparatus and supplies .....	40 00
Fuel and lights .....	100 00
Incidentals .....	25 00
Printing, stationery, and postage .....	25 00
Salaries .....	1,910 00
Seeds and trees .....	50 00
Tools and supplies .....	100 00
Wages .....	800 00
Southern Illinois experiments .....	100 00
Total .....	\$4,115 00
From farm fund—	
Buildings and repairs .....	\$300 00
Dairy stock and fittings .....	275 00
Tools and supplies .....	250 00
Wages .....	250 00
Total .....	\$1,075 00

The Board of Direction asks that the Trustees appropriate Experiment Station funds to meet these estimates. The Trustees are also requested to authorize the Board of Direction of the Experiment Station to order upon satisfactory bids, chemical apparatus and supplies to be imported, not exceeding in amount \$300.00, and botanical apparatus and supplies not exceeding in amount \$75.00.

The Board of Direction has been considering the advisability of conducting some field experiments in southern Illinois with a view to determining in what way the peculiar clay soil of a considerable portion of that country may be cultivated to best advantage. In October last a committee, consisting of Professors Burrill and Davenport, and Mr. Hopkins, chemist of the Station, was sent on a tour of inspection to select a tract of land where such work might best be undertaken. This committee reported in favor of selecting two tracts of land, each of about three acres in extent, one at Edgewood, and the other at Odin, and beginning the experiments in the coming spring.

The Board is asked to authorize this new line of work.

Respectfully submitted, T. J. BURRILL,  
President Board of Direction.

The report was received and recorded. The vouchers were referred to the Finance Committee for auditing, and the requests of the Board of Direction of the Experiment Station for appropriations of Station funds, and for authority to undertake new experiments were granted.

President Draper stated that the parents of Mr. Edwin Warren Stocker, a graduate from the University in the class of 1894, who had since died, were desirous of receiving from the University their son's graduation thesis.

On motion of Mr. Morgan, it was voted that a copy be made of Mr. Stocker's thesis, in order that the file of theses might be kept



complete, and that the original be sent to his parents, together with a letter from the Faculty expressive of the regard in which Mr. Stocker had been held as a student of the University.

On motion of Mr. Raymond, President Draper was made a member of the Board of Direction of the Agricultural Experiment Station.

The Board then adjourned to meet at 8 o'clock Wednesday morning.

#### SESSION OF WEDNESDAY.

The Board met pursuant to adjournment, the same members being present as on Tuesday.

President Draper stated that some difficulty had arisen with the water analysis work which the University had undertaken, chiefly because private parties, without first disclosing their purpose, endeavored to use the University to subserve personal interests. On motion of Mr. Morgan, he was requested to prepare rules for the control of this work.

President Draper's bill of \$116.60 for traveling expenses during the preceding six months was referred to the Committee on Finance, and, subsequently, upon the approval of this Committee, was ordered paid.

Appropriations for the State Laboratory of Natural History were made as follows:

<b>From the state appropriation for that department—</b>	
For field work, office, and incidental expenses.....	\$750 00
For library.....	500 00
For salaries and assistants.....	1,825 00
For bulletins.....	125 00
For illustration of State Entomologist's report.....	125 00
For investigation of contagious diseases of insects.....	750 00
For expenses of Biological Station.....	750 00
<b>And from a state appropriation to the University—</b>	
For expenses of the Biological Station.....	750 00

Mr. Raymond presented a request from the tenant on the south farm that his payment of rent be deferred from January 1st next to April 1. This request was referred to the Finance Committee, and later, upon recommendation of that committee, an extension of time was allowed on consideration that interest at the rate of 6 per cent. per annum be paid upon the deferred payment.

The following letter and telegram received from Governor Altgeld were presented to the Board, and it was ordered that they be entered upon the records:

STATE OF ILLINOIS, EXECUTIVE OFFICE,  
SPRINGFIELD, December 9, 1895.

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

DEAR DOCTOR: It now looks as if it would not be possible for me to meet you to-morrow. Should I not come, then I beg to suggest the following to the Board:

Mr. Burnham will present plan for library in Tudor-Gothic style with towers, etc., and the exterior to be made of terra cotta; also the same plan with the exterior to be made of stone. I think the right thing to do will be for the Board to just take bids on both styles of construction, and when it gets the bids it can then decide whether it will adopt stone or terra cotta.

Mr. Burnham will present another plan of a low building, with no towers, for a library. While I do not wish to influence the Board on this question, I do feel very strongly that this is not the style of building we want and need at the University at present.

Should the question of location again come up, then you may say that, in my judgment, it would be a serious mistake to locate this new building south of, and in the rear of the present administration building. I think it should be west of, and just a trifle north of that building.

I have been told that questions of business management will come up and an effort will be made to introduce some reforms. I think that no matter how honest or how capable the men may be who look after the affairs of the institution, there should be a first-class business method adopted which would provide thorough checks on everybody.

Very truly yours,

JOHN P. ALTGELD.

STATE HOUSE, SPRINGFIELD, December 10, 1895.

*President A. S. Draper.*

Impossible for me to come there to-day. Did you get my letter of yesterday? Please answer.

J. P. ALTGELD.

Mr. D. H. Burnham then presented the plans which he had prepared for the new library building. After a careful explanation of these plans by Mr. Burnham, on motion of Mr. Morgan, the Board went into committee of the whole and discussed the plans, Mr. Morrison being in the chair.

When the Board had resumed its session, on motion of Mr. Armstrong, it was voted to adopt as the design for the library the classic design presented by Mr. Burnham.

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

#### SESSION OF WEDNESDAY AFTERNOON.

Upon the Board's convening pursuant to adjournment, the Finance Committee made the following report:

URBANA, ILLINOIS, December 11, 1895.

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

GENTLEMEN:—Your Finance Committee begs leave to recommend the adoption of the following resolution:

*Resolved*, That Charles W. Spalding, Treasurer, be, and hereby is directed to transfer ten thousand dollars from the state fund for salaries, etc., to the general fund.

Respectfully submitted,

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

*Committee on Finance.*

The resolution offered by the Committee was adopted on motion of Mr. Morgan.

The following resolution was adopted:

*Resolved*, That the following be adopted as the expression of the sentiments of the Board to Governor Altgeld, touching the selection of designs for the new library building.

The Board at first invited a competition among architects and thereby received thirty-eight designs. Having selected the one which seemed most meritorious, and finding it not pleasing to the Governor, and that the author lacked the experience necessary for its execution, it was very willingly determined to abandon the same and, with the approval of the Governor, give the commission for the building to an architect of much experience and wide reputation in the person of Mr. D. H. Burnham, of Chicago. Having entered into a contract of the usual character with Mr. Burnham, he was instructed to prepare designs, with the special injunction that one should be in the Tudor-Gothic style of architecture, to which the Governor was favorable. Mr. Burnham was also told that if he himself should think some other style better adapted to the circumstances of the case he should prepare a design in that style, but that he should exert every effort to bring out the Tudor-Gothic style successfully. He was advised as to the rooms and space for which provision must be made, and that the building must be completed for a sum not greater than the appropriation, \$150,000.00.

Under these circumstances the architect has presented to the Board two designs, one in the Tudor-Gothic style and the other in the Classic Grecian style. They are alike in the interior except that it seems easier to include a basement in the Grecian style than in the Gothic style, and accordingly one has been included in the Grecian design. The Gothic building, if constructed of stone, is estimated by the architect to cost \$220,000.00, and it seems impossible, as stated by the architect, to reduce the cost below \$190,000 by any changes in material or any permissible modifications of the design. The appropriate treatment of the Gothic building apparently requires that it be constructed of stone. The Grecian building, we are advised, may be appropriately constructed entirely of terra cotta, or of terra cotta and brick, even more appropriately than of stone, and we are assured that it can be erected within the limits of the legislative appropriation for the construction of the building.

After the fullest consideration and discussion of the whole matter, eight members of the Board (ten being present) expressed a preference for the Grecian design, on the ground that it was more attractive and appropriate to modern educational uses, and particularly to library purposes, than the Tudor design, and by a vote of eight to two it was selected and approved as the design for the new building.

All of the members were strong in the conviction that it was imperative to adopt a design which could be executed within the appropriation, to the end that faith might be kept with the members of the legislature and the people.

It was also the judgment of the members of the Board that it was highly desirable to include a basement story in the building, as it is provided in the Grecian design.

It is with regret that the Board finds itself unable to approve the design in the style of architecture most admired by Governor Altgeld, who has shown so much interest in and given so much aid to the development of the University, and it is also very much regretted that the Governor was unable to be present personally at this meeting of the Board, for it is believed that in that event he would have seen the advisability, if not the necessity, of the course which has been pursued.

On motion of Mr. Raymond it was voted that the President of the Board communicate the foregoing resolution to Governor Altgeld.

Mrs. Flower moved that the Business Agent be authorized to expend, not to exceed \$250, in putting into better condition the toilet rooms in University Hall and Machinery Hall. This motion was re-

ferred to the Committee on Buildings and Grounds, and subsequently upon the approval of that Committee was passed by the Board.

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

#### THE BUSINESS AGENT'S REPORT.

UNIVERSITY OF ILLINOIS, December 10, 1895.

*Nelson W. Graham, President of the Board of Trustees, University of Illinois,*

SIR: I have the honor to hand you herewith the following financial statement and reports:

*Payer A*, a statement of the current appropriations for the three months ending November 30, 1895.

*Paper B* gives a showing of the state appropriations November 30, 1895.

*Paper C* gives a similar one of the United States fund.

#### PAPER B—STATE APPROPRIATIONS.

	Received.	Expended.	Balance.	Assigned.
<i>For the Years 1893-95.</i>				
Closed out .....	\$121,646 14	\$121,646 14		
Cabinets .....	1,000 00	953 01	\$46 99	\$46 99
Furnishing and heating Natural History Hall ..	6,000 00	5,936 16	63 84	63 84
Engineering building .....	160,000 00	160,000 00		
Applied mechanics .....	472 00	345 36	126 64	126 64
Civil engineering .....	233 00	233 00		
Botany .....	450 00	384 99	65 01	65 01
Zoölogy .....	1,200 00	1,178 89	21 11	21 11
Geology .....	500 00	500 00		
Mechanical engineering .....	4,000 00	3,888 04	111 96	111 96
Geology cases .....	300 00	300 00		
Pedagogy .....	150 00	127 16	22 84	22 84
Greek .....	150 00	108 98	41 02	41 02
Woman's gymnasium .....	300 00	151 61	148 39	148 39
	\$296,401 14	\$295,753 34	\$647 80	\$647 80
<i>For the Years 1895-97.</i>				
<i>Operating Biological Experiment Station—</i>				
Expenses .....	\$750 00	\$765 87		
Unassigned .....	750 00		\$750 00	
	\$1,500 00	\$765 87	\$750 00	
<i>Finishing and Furnishing Engineering Hall—</i>				
Electric wiring .....	\$1,194 03	\$1,191 77	\$2 26	\$2 26
Furniture .....	2,288 64	1,166 84	1,121 80	1,121 80
Unassigned .....	1,517 33		1,517 33	
	\$5,000 00	\$2,358 61	\$2,641 39	\$1,124 06
<i>College of Engineering—</i>				
Machine shops .....	\$15,000 00	\$9,540 36	\$5,459 64	\$5,456 64
Equipment .....	10,000 00	2,840 90	7,159 10	7,159 10
	\$25,000 00	\$12,381 26	\$12,618 74	\$12,618 74
<i>Astronomical observatory .....</i>	\$5,000 00	\$26 00	\$4,974 00	\$4,974 00
<i>Paving streets, etc. ....</i>	\$9,300 00	\$8,266 71	\$1,033 29	\$1,033 29
<i>Fire protection .....</i>	\$2,000 00	\$296 49	\$1,703 51	\$1,703 51
<i>Taxes on Minnesota lands .....</i>	\$1,600 00	\$1,600 00		

## PAPER B—STATE APPROPRIATIONS—Continued.

	Received.	Expended.	Balance.	Assigned.
<i>Illinois State Laboratory of Natural History—</i>				
Expenses.....	\$5,075 00	\$4,692 33	\$382 67	\$382 67
Unassigned.....	4,825 00	.....	4,825 00	.....
	<u>\$9,900 00</u>	<u>\$4,692 33</u>	<u>\$5,207 67</u>	<u>\$382 67</u>
<i>Apparatus and Material—</i>				
Psychology.....	\$300 00	\$75 45	\$224 55	\$224 55
Zoology.....	500 00	.....	500 00	500 00
Chemistry.....	500 00	440 43	59 57	59 57
Applied Chemistry.....	500 00	160 94	339 06	339 06
Geology.....	400 00	211 97	188 03	188 03
Physiology.....	500 00	23 87	476 13	476 13
Botany and horticulture.....	300 00	107 81	192 19	192 19
	<u>\$3,000 00</u>	<u>\$1,020 47</u>	<u>\$1,979 53</u>	<u>\$1,979 53</u>
<i>Cabinets—</i>				
Geology.....	\$400 00	\$102 62	\$297 38	\$297 38
Unassigned.....	600 00	.....	600 00	.....
	<u>\$1,000 00</u>	<u>\$102 62</u>	<u>\$897 38</u>	<u>\$297 38</u>
<i>Library.....</i>	<u>\$3,000 00</u>	<u>\$906 27</u>	<u>\$2,093 73</u>	<u>\$2,093 73</u>
<i>Shop Practice—</i>				
Machine shop.....	\$750 00	\$473 61	\$276 39	\$276 39
Unassigned.....	750 00	.....	750 00	.....
	<u>\$1,500 00</u>	<u>\$473 61</u>	<u>\$1,026 39</u>	<u>\$276 39</u>
<i>Chemical Laboratory.....</i>	<u>\$3,750 00</u>	<u>\$2,136 29</u>	<u>\$1,613 71</u>	<u>\$1,613 71</u>
Unassigned.....	1,250 00	.....	1,250 00	.....
	<u>\$5,000 00</u>	<u>\$2,136 29</u>	<u>\$2,863 71</u>	<u>\$1,613 71</u>
<i>Laboratory of Vegetable Physiology.....</i>	<u>\$2,000 00</u>	<u>\$396 98</u>	<u>\$1,603 02</u>	<u>\$1,603 02</u>
<i>Biological Experiment Station, equipment.....</i>	<u>\$2,500 00</u>	<u>\$772 23</u>	<u>\$1,727 77</u>	<u>\$1,727 77</u>
<i>Salaries, etc.—</i>				
Salaries for instruction.....	\$12,303 03	\$12,303 03	.....	.....
Salaries for services.....	3,111 22	3,111 22	.....	.....
Heating apparatus.....	500 00	378 34	\$121 66	\$121 66
Library catalogue.....	400 00	210 48	189 52	189 52
Buildings and grounds.....	1,374 94	1,258 81	116 13	116 13
Art and design.....	250 00	177 08	72 92	72 92
Physical culture.....	600 00	320 71	279 29	279 29
School of music.....	1,050 00	864 29	185 71	185 71
Lectures.....	1,000 00	285 10	714 90	714 90
Agriculture.....	3,000 00	203 68	2,796 32	2,796 32
Farm house.....	175 00	153 13	21 87	21 87
Fuel and lights.....	2,000 00	1,240 00	760 00	760 00
Preparatory school.....	30 00	14 30	15 70	15 70
Advertising and catalogue.....	1,900 00	146 27	1,753 73	1,753 73
University magazine.....	800 00	.....	800 00	800 00
<i>Illini</i> .....	500 00	250 00	250 00	250 00
Oratorical contest.....	100 00	.....	100 00	100 00
Gas fixtures.....	100 00	75 75	24 25	24 25
Accredited schools.....	75 00	20 00	55 00	55 00
Unassigned.....	60,670 81	.....	60,670 81	.....
	<u>\$90,000 00</u>	<u>\$21,012 19</u>	<u>\$68,987 81</u>	<u>\$8,317 00</u>

## PAPER C—UNITED STATES FUND,

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1894.</i>				
Before reported on.....	\$18,500 00	\$18,500 00	.....	.....
Architecture.....	500 00	477 93	\$22 07	\$22 07
Total.....	\$19,000 00	\$18,977 93	\$22 07	\$22 07
<i>Year ending June 30, 1895.</i>				
Before reported on.....	\$20,000 00	\$20,000 00	.....	.....
<i>Year ending June 30, 1896.</i>				
Salaries for instruction.....	\$17,476 36	\$17,476 36	.....	.....
Unassigned.....	3,523 64	.....	\$3,523 64	.....
Total.....	\$21,000 00	\$17,476 36	\$3,523 64	.....

*Paper D* is a list of vouchers presented for audit, being 1,651 to 2,150.

*Paper E* is an estimate of receipts and expenses for the nine months ending September 1, 1896.

*Paper F* is a list of appropriations the Board is requested to make for the three months ending February 29, 1896.

I have asked that \$8,000.00 be appropriated on account of President's House.

The architect's estimates in favor of the contractors to this time amount to to \$6,800.00; \$1,800.00 of this has been met out of the \$2,000.00 received as part payment on the Griggs farm, leaving \$5,000.00 to be met out of the \$8,000.00. Other accounts are also to be met out of it, and it may be best to increase the amount.

Under the orders of the Board I have purchased—

Nine Babcock fire extinguishers at an expense of.....	\$202 19
One Miller extinguisher for.....	7 50
Five long ladders for.....	50 40
Four dozen fire buckets.....	24 00

I have also contracted for a fire-escape ladder and stand-pipe to extend to the top of University Hall at an expense of \$275.00.

Additional hose will be purchased, and it seems desirable that several more of the Miller extinguishers should be had.

I inclose a communication in regard to the Kirker-Bendir fire-escape for the consideration of the Board—*Paper G*.

Respectfully submitted,

S. W. SHATTUCK,

*Business Agent.*

The following assignments for the three months ending February 29, 1896, were made, as asked for by the Business Agent:

## APPROPRIATIONS.

Board expenses.....	\$500 00
Salaries for instruction and President.....	25,730 00
Salaries for services.....	3,590 00
Buildings and grounds.....	500 00
Fuel and lights.....	3,000 00
Stationery, printing, and postage.....	500 00
Mechanical, agricultural, architectural, and horticultural departments.....	600 00
Military department.....	50 00
Laboratories.....	1,000 00
Library and apparatus.....	50 00
Incidentals.....	400 00
Heating apparatus.....	500 00
Furniture and fixtures.....	300 00
Water supply.....	125 00
Gymnasium.....	50 00
Repair shop.....	300 00
Senator Morrill's bust, balance.....	30 00
President's House.....	8,000 00
Sewer in the Arboretum.....	400 00
<b>Total.....</b>	<b>\$45,535 00</b>

The report of the Business Agent was referred to the Finance Committee.

The Finance Committee made the following report:

URBANA, ILL., December 11, 1895.

*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 Board of Direction of the Agricultural Experiment Station, covering the expenditures of the Station for the quarter ending September 30, 1895, being Nos. 1 to 83 inclusive, and has found them correct and duly receipted.

Respectfully submitted,

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

*Finance Committee.*

Mr. Armstrong, who had been directed (see page 184 of the proceedings of the Board in September, 1895,) to investigate the method of heating and lighting adopted by the United States Heating and Lighting Co., of Chicago, and to invite a proposition for heating and lighting the University, presented the following report:

URBANA, December 11, 1895.

*To the Honorable President of the Board of Trustees, University of Illinois.*

SIR:—Your special committee on gas plant would respectfully report that I have given some time to the investigation of individual gas plants, with respect to cost of construction, maintaining, and usefulness of the same. It is my belief that the gas made from low grade gasoline by the process used by the United States Heat and Light Co., of Chicago, can be manufactured for 25 cents per thousand cubic feet, as claimed by them, and that for fuel purposes it is superior to other gas. The machinery occupies but little space and can be operated without extra expense to us by locating it in our boiler house or machine shop, under the charge of engineers and firemen already employed. The gas is, in my opinion, less desirable for illuminating purposes, from the fact that it requires a special burner, which is somewhat expensive, but even then, this expense is compensated for in the small amount of gas consumed by these burners, as well as the exceedingly strong and steady light produced.

We consumed gas amounting to over \$1,600 last year, and two-thirds of this was for chemical purposes. The pressure of gas is so poor at the present time that frequently some of the burners have to be shut down in order to get sufficient gas to run a part of the laboratory. The muffles are frequently abandoned for the want of sufficient gas, and the assay furnaces must be heated by some other way than by that recognized generally as the best. Besides, this gas should be supplied to the new shops for one or more forges. This will be out of the question at the present rates of \$1.75 per M. In view of these facts, I would recommend that we contract with the United States Heat and Light Co., for a plant large enough for the use of the entire Chemical Laboratory, and that provisions be made for further extension of the service to the new shops as soon as needed there.

I submit herewith a proposition from the above named company for installing a complete plant as above named.

Respectfully submitted,

J. E. ARMSTRONG,

*Special Committee on Gas Plant.*

This report was referred to the Committee on Buildings and Grounds.

The Finance Committee also presented bills for legal services from J. O. Cunningham and from Cunningham & Boggs, aggregating \$55, and recommended that they be paid. The recommendation was adopted.

On motion of Mr. Raymond, \$60 was appropriated for repairing the floor of the barn at the south farm, and for making a pantry in the house on that farm, the expenditures to be under the direction of the Business Agent.

Mr. Morrison presented a letter from the Treasurer, asking that two of his bondsmen be released. Mr. Morrison was instructed to answer the letter, saying that the Board declined to comply with the request, since it could not be done without running the risk of impairing the validity of the bond.

The committee appointed at the last meeting of the board (see proceedings of Sept. 19, 1895, page 183,) to consider the business methods followed at the University, and to report what changes, if any, were desirable, presented the following communication as a report of progress.

#### PROPOSED FINANCIAL SYSTEM.

The financial system now followed by the University is good. It has been thoroughly tested and by it all the funds of the University have been satisfactorily accounted for during all the years of its history. This, however, we believe has been due not so much to the system as to the integrity and painstaking faithfulness of the officers of the Board charged with the accounting for the finances of the University.

Any system adopted by a corporation for the management of its finances must of necessity rest largely in the trust reposed in the officers who conduct it.

Both for the safety of the corporation and the honor of its servants there should be in the financial system methods of checking accounts, so that the facts shown by the books of one officer may be confirmed by the books of one or more other officers. In this way only can the honorable conduct of any officer be demonstrated and the funds of the institution be perfectly guarded.



We believe that some additional means of checking accounts incorporated into the system now in vogue in the University are all that is necessary to make our system entirely satisfactory and equal to or better than that used in any other public or private corporation in this state.

To arrive more easily and accurately at the changes necessary and desirable we divided the subject into the following captions:

(a) *Receipts*—

(1) Receiving funds. (2) Holding funds. (3) Investing funds.

(b) *Expenditures*—

(1) Authorization. (2) By whom and in what manner expended.  
(3) How paid.

As the duties of each officer of the Board are affected by several of these subdivisions, rather than submit to you for adoption an entire revision of the by-laws of the Board, changing the duties there given for each officer, we have thought it better to submit a list of requirements governing the financial business of the University for your consideration, deferring the revision of the by-laws till your action be taken on these requirements.

Your committee therefore recommends that the following requirements be adopted for the conduct of the financial business of the University and that your committee be instructed to report a revision of the by-laws embodying these requirements at the next meeting of the Board:

RECEIPTS, INVESTMENTS, AND ACCOUNTING.

1. The Treasurer shall be the custodian of the funds and securities belonging to the University.

2. The Treasurer shall collect as it becomes due the interest accruing on the money and securities of the University and shall collect the principal of said securities as it becomes due. He shall collect all general and special appropriations made to the University by the state and the United States.

3. The Treasurer shall keep the accounts of the money in his custody in such separate funds as are desirable and necessary for the proper and systematic accounting for the moneys coming into the treasury.

4. At each regular meeting of the Board, the Treasurer shall report in detail the transactions of his office for the quarter preceding the meeting and shall report the condition of the treasury at any time the Board may require.

5. The Treasurer shall report to the Secretary for record a complete description of each of the securities the Finance Committee may place in his custody within ten days after said action of the Finance Committee.

6. The Treasurer shall pay out money on warrants signed by the Secretary and the President of the Board and shall not otherwise do so; and he shall submit his receipted warrants to the Board for audit by the Finance Committee.

7. The investment of the endowment fund shall be made by the Finance Committee of the Board which shall place the securities thus obtained in the custody of the Treasurer, taking his receipts therefor, and shall at once file the said receipts with the Secretary. The Committee shall report its actions concerning investment of funds at each regular meeting of the Board.

8. The Secretary shall keep an accurate account of each of the securities reported by the Treasurer in a bond register and shall report maturing securities to the Board at least one quarter before maturity. He shall report the amount of interest accrued on the securities of the University during the previous quarter.

9. The Assistant Treasurer shall be the general Business Agent and financial accountant of the University. He shall collect and account for all money from dues, fees, tuitions, and all other sources not required to be collected by the Treasurer.

10. The Assistant Treasurer shall report monthly to the Treasurer the moneys received by him turning over to him all money except such as he and the Treasurer may agree to be necessary for the proper conduct of his office.

11. It shall be the duty of the Assistant Treasurer to pay all warrants for small sums drawn against the Treasurer, provided there is sufficient money in his hands to do so. He shall report the receipted warrants to the Treasurer monthly as cash and the Treasurer shall account for them as such.

12. The Assistant Treasurer shall report to the Board at its regular meetings the financial condition of the University with such recommendations for appropriations as may be necessary, and the transactions of his office for the quarter preceding and oftener if required by the Board. His report shall include a detailed statement of all moneys received, and from what sources, and the amounts paid to the Treasurer.

13. The Registrar shall report in detail to the Board at each regular meeting the number of students who, during the quarter preceding, were indebted to the University for term incidental fees, matriculation, and graduation fees, tuition, deposits in the chemical and physical laboratories, and all other obligations imposed by their attendance upon the University.

14. The reports of the Treasurer, Assistant Treasurer, Secretary, and Registrar shall be audited by the Finance Committee of the Board, the Committee to report its findings and recommendations to the Board for approval.

#### EXPENDITURES, CONTRACTS, AND OBLIGATIONS.

1. No expenditures shall be made except on a formal order of the Board and an appropriation of the money therefor.

2. All appropriations shall lapse at the end of the fiscal year. By a vote of the Board an appropriation may be made to lapse at any time.

3. Articles or materials for the University shall be purchased only by persons or committees designated by order of the Board. When none are designated the Assistant Treasurer shall act as purchasing agent.

4. The Assistant Treasurer shall issue an order of purchase to all persons authorized by the Board to make purchases, but shall not do so unless he has the certificate of the Secretary that the purchase has been ordered by the Board and the money for payment therefor has been appropriated. The order shall clearly set forth the articles or materials ordered and shall state the fund from which the cost is to be paid. The order of the Assistant Treasurer shall accompany all bills of account for purchases on presentation for audit and payment.

5. The persons composing the force of instruction, the administration officers, and the clerks of the department offices shall be employed and salaries fixed by the Board. The monthly payroll of such persons shall be approved by the President of the University, but he shall not approve the name of any person who has not rendered prescribed service during the month unless such service shall have been previously formally excused by the Board or by the President of the University. The secretary shall prepare the payroll for the approval of the President on the first day of each month, setting forth for each person the amount of salary for the month as fixed by the Board.

6. All men and help employed exclusive of members of instructional force, administration officers, and clerks of department offices, shall be engaged by the Superintendent of Buildings and Grounds, provided that before doing so he shall secure the certificate of the Secretary that the employment has been authorized and the money therefor appropriated by the Board. At the time of the employment of each person by him he shall determine the price to be paid, except in cases where the Board has determined that, and he shall keep the time of the service in a proper book and report the payroll to the Secretary on the first day of each month or at the termination of the employment, certifying to the rate of pay, time of service, kind of service, and amount due.

7. The payroll of the employes in the State Laboratory of Natural History shall be made out and certified to by the Director and it shall be filed by him with the Secretary on the first day of each month.

8. Purchases to an amount exceeding one hundred dollars shall be let by contract in open competition unless the character of the materials or articles, technical or otherwise, render a competition impossible. Contracts shall be let by the Board or a committee designated by the Board and shall be signed for the University by the President and Secretary of the Board unless other persons or committees are authorized by the Board to perform that service.

9. Contracts shall be filed with the Secretary by the officers of the Board authorized to enter into the contract and payment in full or in part shall be made on contracts only, on the certificate of some person authorized by the Board that the contract or a part thereof has been acceptably fulfilled and that under the terms of the contract a certain stated amount is due and payable.

10. The Secretary shall act as Auditor of the Board and shall audit all accounts against the University. All bills of accounts shall be rendered to the Secretary for audit. The Secretary shall have regular business hours each day in which to audit and discharge bills of accounts against the University and shall have such hours bulletined for the information of the public.

11. Bills for purchases when rendered to the Secretary must be accompanied by the order of the Assistant Treasurer, and, if for materials or articles delivered, the receipt of the officer, member of Faculty, or employé who received them that the same was received by him in good condition, and that they were of the quality and kind prescribed.

12. When an account against the University is just and due, the obligation having been created by the authority of the Board, and appropriation has been made for the payment of the same, and if is presented in conformity to the requirements of the Board, the Secretary shall stamp on the face thereof "Approved for payment, A. B., Secretary," and shall enter the bill, fully described, in a book of audit, and shall issue a warrant against the Treasurer for the amount of the account. Said warrant he shall lay before the President of the Board for signature. The President shall sign it if he be satisfied that it is correct and return it to the Secretary. The Secretary shall then deliver the said warrant, taking acknowledgment therefor, in the audit book, in exchange for the audited bill, properly receipted, provided that in cases where the money is paid from special state and United States funds he shall require duplicate receipted bills. Each payroll shall be stamped but once, but each item shall be entered separately in the audit book and a warrant issued for each separate amount, and both the payroll and the audit book shall be receipted.

13. The Secretary shall report to the Board, at its regular meetings, the financial transactions of his office during the previous quarter, with a detailed lists of warrants issued, the receipted bills taken therefor, and the audit book receipted for warrants, which report shall be audited by the Finance Committee.

The following resolution, offered by Mr. McLean, was adopted:

*Resolved*, That the Committee on Buildings and Grounds be, and hereby is, authorized and instructed to have the necessary working plans and specifications for the library building made by D. H. Burnham & Co., and when such specifications and plans have been prepared to publish a call, in its discretion, for the erection and completion of said building by March 1, 1897, and to make report from time to time of its acts.

*Resolved*, That said Committee be further instructed to inform said D. H. Burnham & Co. that the entire cost of said building must not exceed the sum of money appropriated therefor by the General Assembly of the State of Illinois.

The Board then adjourned to meet at 9 o'clock Thursday morning.

## SESSION OF THURSDAY MORNING.

The Board convened pursuant to adjournment.

With regard to the proposition made by President Draper, that the avenue running south from Military Hall through our grounds be named Burrill avenue, Mr. Morgan, from the Committee on Buildings and Grounds, presented the following resolution and moved its adoption:

WHEREAS, Dr. Thomas. J. Burrill has been continuously Professor of Botany and Horticulture in the University of Illinois since it was inaugurated in 1868, and latterly for several years Regent *pro tem.*, steadily declining permanent appointment to that high office, and also now is Dean of the General Faculty.

WHEREAS, While successfully discharging his formal duties he has, throughout the entire period of his association with the University, supervised and constantly directed the tree culture and work of beautifying the grounds of the University with a zeal and good taste which have resulted in the charming conditions now existing. Therefore, in consideration of these facts, and of the official merit and personal worth of Dr. Burrill, be it

*Resolved*, That the carriage drive extending from Military Hall south through the University grounds be named in his honor Burrill Avenue.

President Draper presented a request from Professor Palmer that authority be given to order, upon satisfactory bids, apparatus and material for the chemical laboratory to the amount of \$1,500.00.

It was ordered that premiums awarded for designs for the library building be paid from the state fund for salaries and expenses, and an appropriation of \$1,100.00 was made therefor.

It was ordered that the assessment for the Green Street sewer be paid from the fund for street paving, etc.

The Buildings and Grounds Committee was instructed to make repairs and improvements in the toilet room of the gymnasium, at an expense not exceeding \$125.00.

The Committee on Buildings and Grounds reported that it had obtained plans for the Observatory, and had also received bids for its construction, but was not prepared to report action at this time.

On motion of Mr. Morrison, it was voted that the Committee on Buildings and Grounds make a contract, on the best terms obtainable, with the Urbana and Champaign Electric Street Railway Co., for electric light and power, and with the Champaign and Urbana Gas Light and Fuel Co., for gas for the current year, bills to be payable monthly.

The following resolution offered by Mr. McLean, was adopted:

WHEREAS, It is the true policy of this University to own and control its heating, and lighting, and power plant, therefore be it

*Resolved*, That the matter be referred to the legislative committee next hereafter appointed, and that it be directed, in its discretion, to present to the legislature, along with the usual askings, a request for an appropriation sufficient to install such a plant.

The Finance Committee presented the report of the Treasurer, Mr. Charles W. Spalding, with the recommendation that it be filed for record. Approved.

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,  
NOVEMBER 30, 1895.

		<i>Dr.</i>	
1895.			
August	31	To balance .....	\$188,137 02
September	13	From State Treasurer, appropriation for Laboratory of of Natural History.....	\$9,900 00
"	26	From S. W. Shattuck on account general fund, check....	2,000 00
October	2	From State Treasurer for Jasper Co. coupons, due Oct. 1, 1895.....	750 00
"	7	From S. W. Shattuck paid warrants on account general fund.....	3,678 04
"	9	From U. S. Treasurer, Experiment Station warrant, due October 1, 1895.....	3,750 00
"	15	From W. L. Pillsbury on farm account.....	887 17
November	8	From Pete fish, Skies & Co., Cass Co. coupons, due Nov. 1, 1895.....	325 00
"	11	From S. W. Shattuck, paid warrants on account of gen- eral fund.....	3,213 18
"	13	From State Treasurer for Douglas Co. bonds, due Nov. 10, 1895.....	5,000 00
"	13	From State Treasurer for Douglas Co. coupons, due Nov. 10, 1895.....	300 00
"	27	From Eilert W. Harris, assignee, on account of interest on land contract No. 62.....	200 00
"	30	From S. W. Shattuck, paid warrants on account of gen- eral fund.....	1,593 31
"	30	Interest for September, October, and November on en- dowment fund, at 4 per cent.....	214 76
"	30	Interest for September, October, and November on all other funds, at 2½ per cent.....	899 71
			<u>220,848 19</u>
		<i>Cr.</i>	
November	30	By amount paid out of general fund as per list of war- rants attached thereto.....	\$13,873 59
"	30	By amount paid out of U. S. Experiment Station fund, as per list of warrants attached hereto.....	3,337 27
"	30	By amount paid out of Experiment Station farm account, as per list of warrants attached hereto.....	771 61
"	30	By amount paid out of state appropriation for salaries, as per list of warrants attached hereto.....	13,305 91
"	30	By amount paid out of state appropriations for Engi- neering Hall, as per list of warrants attached hereto.....	420 12
"	30	By amount paid out of state appropriation for furnish- ing and heating Natural History Hall, as per list of warrants attached hereto.....	100 06
"	30	By amount paid out of state appropriation for library, as per list of warrants attached hereto.....	752 38
"	30	By amount paid out of state appropriation for Labora- tory of Natural History, as per list of warrants attach- ed hereto.....	2,483 30
"	30	By amount paid out U. S. fund, as per list of warrants attached hereto.....	10,835 22
"	30	By amount paid out of state appropriation for Engineer- ing College, as per list of warrants attached hereto....	8,542 29
"	30	By amount paid out of state appropriation for fitting and furnishing Engineering Hall, as per list of warrants attached hereto.....	2,281 42
"	30	By amount paid out of state appropriation for building and equipping Biological Experiment Station, as per list of warrants attached hereto.....	137 23
"	30	By amount paid out of state appropriation for Biological Experiment Station, as per list of warrants attached hereto.....	648 33
"	30	By amount paid out of state appropriation for apparatus and material, as per list of warrants attached hereto....	573 01
"	30	By amount paid out of state appropriation for shop prac- tice, as per list of warrants attached hereto.....	254 05
"	30	By amount paid out of state appropriation for chemical laboratories, as per list of warrants attached hereto....	1,404 91
"	30	By amount paid out of state appropriation for laboratory of vegetable physiology, as per list of warrants attach- ed hereto.....	232 70
"	30	By amount paid out of state appropriation for fire pro- tection, as per list of warrants attached hereto.....	202 19
"	30	By amount paid out of state appropriation for paving streets and walks, as per list of warrants attached hereto.....	8,221 99
			<u>\$68,377 58</u>

*Treasurer's Report—Concluded.*

Balances—			
Endowment fund.....	\$26,244	90	
U. S. Experiment Station fund.....	3,101	34	
U. S. Experiment Station farm fund.....	204	66	
U. S. fund.....	7,539	83	
State appropriations—			
For salaries, etc.....	76,672	03	
Furnishing and heating Natural History Hall.....	315	33	
Library.....	2,247	62	
Laboratory of Natural History.....	6,024	16	
Cabinets.....	1,002	74	
Engineering College.....	14,027	12	
Astronomical Observatory.....	5,000	00	
Fitting and furnishing Engineering Hall.....	2,693	93	
Building and equipping Biological Experiment Station.....	1,727	77	
Biological Experiment Station.....	734	13	
Apparatus and material.....	2,424	14	
Shop practice.....	1,245	95	
Chemical laboratory.....	3,553	98	
Laboratory of Vegetable physiology.....	1,767	30	
Fire protection.....	1,797	81	
Paving streets and walks.....	1,078	01	
	\$159,402	75	
Less general fund overdraft.....	6,932	14	
			152,470 61
			<u>\$220,848 19</u>

The Finance Committee also recommended payment of the Treasurer's bill of \$235.11, and the recommendation was adopted.

On motion of Mr. McLean, the sum of \$5,000 was appropriated for the erection of the President's House.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

N. W. GRAHAM,  
*President.*

## MEETING OF DECEMBER 27, 1895.

The Board of Trustees of the University of Illinois met in special session in the University Parlor in Urbana, Ill., at 3 o'clock p. m. Friday, December 27, 1895, pursuant to the following call issued by the secretary, December 19, 1895:

By order of the President, Mr. N. W. Graham, the Board of Trustees of the University of Illinois is hereby called to meet in special session in the University Parlor in Urbana, Illinois, at 3 o'clock p. m. Friday, December, 27, 1895.

The meeting is called "at the request of Governor Altgeld, who will submit important business."

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

Mr. Morrison moved to reconsider the action of the Board taken on motion of Mr. Armstrong at its last meeting by which a design for the new library building was adopted. (See minutes of meeting of December 10, 1895, page 199.)

While this motion was under consideration, Mr. D. H. Burnham resigned as architect of the library building.

On the motion to reconsider the yeas were Altgeld, Judy, Morgan, Smith, Graham, Morrison, Raymond; the nays were Flower, Bullard, Armstrong.

The original motion was then defeated by the following vote: Yeas, Flower, Bullard, Armstrong, Raymond; nays, Altgeld, Judy, Morgan, Smith, Graham, Morrison.

On motion of Mr. Judy, Mr. Burnham's resignation was accepted.

On motion of Governor Altgeld, it was

*Resolved*, That the Committee on Buildings and Grounds do ascertain at once whether or not it is practicable and desirable to have the architectural department of the University do the architectural work of the proposed library; and if they find that it is practicable and desirable, that then the said department be instructed to proceed at once with the preparation of sketches and designs to be presented to this Board at its next session. And that in case said Committee finds that it is not practicable, or not desirable, to have the work thus done, that then said Committee do employ the services of a competent architect to draw satisfactory plans and designs and present the same at the next meeting of this Board.

On motion of Mr. Judy, the Committee on Buildings and Grounds was instructed to obtain terms of settlement from D. H. Burnham & Co. and report same to the Board at its next meeting.

An appropriation of two hundred dollars was made for Board expense.

Upon recommendation of the Faculty, the degree of B. S., in the course of architecture was conferred upon Emery Stanford Hall.

The Board adjourned.

N. W. GRAHAM,  
*President.*

W. L. PILLSBURY,  
*Secretary.*



## MEETING MARCH 10, 1896.

The Board of Trustees of the University of Illinois met in the University Parlor, Urbana, at 3 o'clock p. m., Tuesday, March 10, 1896. The members present were Messrs. Armstrong, Bullard, Graham, Inglis, McLean, Morgan, Morrison, Raymond, Dr. Julia Holmes Smith, and Mrs. Flower; absent, Governor Altgeld and Mr. Judy.

The minutes of the meeting of December 10, and of the meeting of December 27, 1895, were approved as presented by the Secretary.

The President then announced the election of officers. Messrs. Morgan and Armstrong were put in nomination for President, and on the fourth ballot Mr. Armstrong was elected by vote of five to four.

W. L. Pillsbury was elected Recording Secretary, Corresponding Secretary, and Registrar, at a salary of \$1,400 a year.

Messrs. Bullard and Raymond were elected members of the Executive Committee.

President Draper presented reports and communications which were disposed of as follows:

### PAPERS PRESENTED BY PRESIDENT DRAPER.

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

The following schedule of charges for services in the Chemical Laboratory was recommended by the President and was adopted:

#### SCHEDULE OF CHARGES FOR CHEMICAL ANALYSES.

Sanitary chemical analysis of potable waters—for residents of Illinois.....	No charge.
For non-residents .....	\$10 00
Quantitative mineral analysis of drinking waters—giving grains per gallon of each and every constituent present .....	\$20 00 to 50 00
Quantitative analysis of waters—for manufacturing purposes, boilers, etc..	10 00 to 20 00
Analysis of milk—for determination of adulterants, watering, or skimming.	5 00
Analysis of vinegar, wine, beer, and liquors—determination of extract, detection of fusel oil, detection of mineral acid, each determination.....	2 00
Determination of alcohol.....	2 00
Analysis of grains and food stuffs—according to the number of determinations to be made.....	10 00 to 25 00

*Schedule of Charges for Chemical Analysis—Concluded.*

Analysis of foods, coffee, tea, sugar, bread, butter, etc.—	
Determination of moisture in bread .....	\$1 00
Determination of mineral ingredients in bread—(alum, copper, baryta) ..	2 00
Determination of fat in butter .....	2 00
Determination of water in butter .....	1 00
Determination of salt in butter .....	1 00
Determination of sugar .....	2 00
Detection of artificial coloring matter in coffee, tea, etc .....	2 00
Determination of ash in coffee or tea .....	1 00
Determination of caffeine and theine .....	5 00
Fertilizers—quantitative examination .....	10 00 to 25 00
Analysis of coal and coke—determination of moisture, volatile combustible matter, fixed carbon, ash, sulphur .....	5 00
Analysis of iron and manganese ores, minerals, slags, ashes, clays, building stone, etc.—per cent. of iron, phosphorus, sulphur, silica, aluminium, manganese, each .....	3 00
Per cent. of iron together with phosphorus, sulphur, silica, aluminium or manganese .....	5 00
Complete analysis excepting alkalies .....	20 00
Complete analysis with alkalies .....	25 00
Gold and silver ores—assays for gold and silver in ores .....	3 00
Other ores, minerals, metals, alloys, etc.—Per cent. of any of the following metals, antimony, arsenic, bismuth, tin, cobalt, molybdenum, nickel, zinc, cadmium, copper, silver, chromium, lead, mercury, platinum, each .....	3 00

Charges for analysis of other articles, such as oils, varnishes, paints, pigments, baking powder, air, soap, drugs, chemicals, medicine, etc., and for the toxicological examination of human organs, etc., would have to be arranged to conform to the amount of time and work involved. They might vary, according to the case, from \$5 to \$50. In cases where the amount of the charge is not definitely fixed it shall be determined by the Professor of Chemistry with the approval of the President.

A request from the business manager of the *Illini* for permission to sell the old printing outfit for the benefit of the *Illini* Association was granted.

A request from Professor Forbes for an appropriation of \$1,000 to be used in publishing the report of the Biological Experiment Station was referred to the Executive Committee with instructions to investigate and report at the next meeting of the Board.

A communication from the Advisory Board of Athletic Managers of the University was referred to the Finance Committee, and upon the recommendation of the committee the matter was laid over to the June meeting.

The construction and maintenance of tennis courts at an expense not to exceed \$250 was authorized, the work to be in charge of a special committee consisting of the Superintendent of Buildings and Grounds, Dr. Smith and Mrs. Flower.

A request from the Glee Club for an appropriation with which to meet the deficiency in their accounts was referred to the Finance Committee. Later in the session the committee reported recommending an appropriation of \$75.00 for the Glee Club, and the recommendation was adopted.

A request by Professor Talbot for \$150.00 for use in the Laboratory of Applied Mechanics was referred to the Finance Committee, and upon recommendation of the Committee the appropriation was made.

Mr. C. A. Gunn's letter resigning his position as instructor in architecture was referred to the Committee on Instruction and the resignation was accepted, to take effect the first day of July next, upon recommendation of the Committee.

Mr. H. S. Piatt, Assistant Professor of Romance Languages, was granted leave of absence, for the purpose of study abroad, during the University year beginning September 1, 1896, with permission to go away June 10th.

By request of Professor Breckenridge \$250.00 was assigned from the state appropriation for materials for shop practice, for use in the shops.

Certain other requests made by Professor Breckenridge, for appropriations for the Mechanical Engineering Department were referred to the Finance Committee, and upon recommendation of the Committee further consideration was postponed to the June meeting.

On request of Professor Baker \$15.00 was appropriated for the removal of certain brick piers received from the United States Laboratory, at Watertown, Mass., to Engineering Hall, and for the return of the metal clamps on these piers.

A request for an appropriation of \$50.00 for expenses of the committee on accredited schools was referred to the Finance Committee, and on recommendation of the Committee this appropriation was made.

A request from the *Technograph* for an appropriation of \$50.00 to meet a deficit in the accounts for publishing of the last number was referred to the Finance Committee, and on recommendation of the Committee, it was voted not to grant the request.

The report of the Agricultural Experiment Station was received.

#### AGRICULTURAL EXPERIMENT STATION.

URBANA, ILLINOIS, March 10, 1896.

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

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

*Paper A* is a list of warrants drawn, Nos. 84 to 168, inclusive, for the quarter ending December 31, 1895, and is accompanied with vouchers for the same for audit.

*Paper B* is a statement of expenditures for the quarter ending December 31, 1895.

*Paper C* is a statement of appropriations, expenditures, and balances for the quarter ending March 31, 1896.

*Paper D* is a statement of appropriations asked for the current quarter, and for the next quarter.

## PAPER B—STATEMENT OF EXPENDITURES, QUARTER ENDING DECEMBER 31, 1895.

Board expense.....	\$34 86
Books and publications.....	160 50
Buildings and repairs .....	12 15
Chemical apparatus and supplies .....	16 24
Fuel and lights.....	78 88
Incidentals.....	9 80
Meteorological apparatus .....	9 95
Printing, stationery, and postage.....	24 15
Salaries.....	1,660 00
Seeds and trees .....	2 16
Tools and supplies .....	106 39
Wages.....	965 62
Wood durability experiment.....	32 48
Total.....	\$3,113 18

## PAPER C—EXPENDITURES, QUARTER ENDING MARCH 31, 1896.

	Appropriated.	Expended.	Balances.
Board expense.....	\$40 00	.....	\$40 00
Books and publications.....	50 00	\$8 87	41 13
Botanical apparatus and supplies.....	50 00	35 95	14 05
Buildings and repairs.....	25 00	6 50	18 50
Bulletins.....	800 00	.....	800 00
Chemical apparatus and supplies.....	40 00	.....	40 00
Fuel and lights.....	100 00	.....	100 00
Incidentals.....	25 00	13 50	11 50
Printing, stationery, and postage .....	25 00	.....	25 00
Salaries.....	1,910 00	1,114 99	795 01
Seeds and trees .....	50 00	.....	50 00
Tools and supplies.....	100 00	.....	100 00
Wages.....	800 00	631 15	168 85
Southern Illinois experiments.....	100 00	6 75	93 25
Total .....	\$4,115 00	\$1,817 71	\$2,297 29

## PAPER D—ESTIMATES.

<i>Quarter ending March 31, 1896.</i>		
Wages.....		\$150 00
<i>Quarter ending June 30, 1896.</i>		
Board expense.....		\$40 00
Books and publications.....		25 00
Botanical apparatus and supplies.....		10 00
Bulletins.....		500 00
Chemical apparatus and supplies.....		40 00
Fuel and lights.....		80 00
Incidentals.....		25 00
Printing, stationery, and postage .....		25 00
Salaries.....		1,875 00
Seeds and trees .....		75 00
Tools and supplies.....		300 00
Wages.....		1,250 00
Southern Illinois experiments .....		150 00
Total .....		\$4,395 00
From farm fund—		
Buildings and repairs.....		\$375 00
Tools and supplies.....		200 00
Wages.....		260 00
Total.....		\$835 00

The Board of Direction, in order to carry on experiments in southern Illinois, which it has undertaken by your authority, desires you to lease for its use two tracts of land; one of Mr. H. N. Woodward, of Odin, Ill., containing about fifteen acres, for one year, with the privilege of renewal each subsequent year for nine years, at a rental of \$25.00 a year; the other of Mr. Samuel Bartley, of Edgewood, Ill., containing three to five acres, for one year, with the privilege of renewal year by year for nine years thereafter, at an annual rental of \$2.50 an acre.

The Board of Direction also asks you to authorize undertaking the following experiments:

1. Experiments with Kaffir corn.
2. Investigations of pear blight.

The Board of Direction has appointed the members of its staff as follows:

Thomas J. Burrill, Horticulturist and Botanist, salary \$300.00.

Eugene Davenport, Agriculturist, salary \$1,050.00.

Stephen A. Forbes, Consulting Entomologist, without salary.

Donald McIntosh, Veterinarian, without salary.

Cyril G. Hopkins, Chemist, salary \$1,500.00.

George P. Clinton, Assistant Botanist, salary \$1,000.00.

William A. Powers, Assistant Chemist, salary \$720.00.

Wilbur J. Fraser, Assistant Agriculturist, salary \$800.00.

These appointments are all for the year beginning April 1, 1896.

George W. McCluer for six months, beginning April 1, 1896, salary \$110.00 a month.

The Board of Direction asks your concurrence in the appointment of W. L. Pillsbury as Secretary of the Station at a salary of \$800.00 a year.

The Station also reports that it has purchased a Jersey cow and calf of excellent pedigree, which will prove, it is confident, a valuable addition to the registered stock already owned by the University.

Respectfully submitted,

T. J. BURRILL,

*President Board of Direction.*

Appropriations of Experiment Station funds were made as asked for in this report, and the Board of Direction was authorized to undertake the new experiments proposed.

The appointment of members of the Station staff as reported was approved, and the Board concurred in the election of W. L. Pillsbury as Secretary.

The President and Secretary of the Board of Trustees were authorized to sign leases for land in southern Illinois as proposed when presented by the Board of Direction of the Experiment Station.

Messrs. E. E. Chester, of Champaign; H. B. Gurler, of DeKalb, and E. A. Riehl, of Alton, were appointed upon the Board of Direction of the Agricultural Experiment Station, as representatives of the State Board of Agriculture, State Dairymen's Association and the State Horticultural Society respectively.

Messrs. Morrison and Raymond, President Draper and Professors Burrill, Forbes, and Davenport were also appointed members of the Board of Direction of the Agricultural Experiment Station. Dr. Burrill was made President and President Draper and Mr. Raymond were appointed members of the Executive Committee.

A request from Dr. Burrill, for leave to import apparatus and material for the Botanical Department of the University to the amount of \$100.00, was referred to the Committee on Finance and upon the recommendation of the committee the request was granted.

Another communication from Dr. Burrill in relation the employment of Mr. G. P. Clinton as Instructor in Botany, by the University, and the discontinuance of Mr. John Mayer as an employé of the Experiment Station, was referred to the Committee on Finance.

Upon motion of Mr. McLean, authority was given in the discretion of the President to pay to special students who may be appointed members of the band by the professor of military science, the same amount (\$22.50) a year for such service as is now paid matriculated students who continue as members of the band after they have completed their military service.

President Draper was authorized to make arrangements for lectures during the next University year, and \$1,000.00 was appropriated for this purpose.

The Committee on Buildings and Grounds made the following report:

#### REPORT ON LIBRARY.

URBANA, ILL., March 10, 1896.

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

GENTLEMEN: The Buildings and Grounds Committee presents the following report of its doings:

In conformity with the resolution of instructions of the Board, December 27, 1895, the following letter was addressed to President Draper:

UNIVERSITY OF ILLINOIS,

URBANA, ILL., Dec. 28, 1895.

*Dr. Andrew S. Draper, President,*

DEAR SIR: This Committee respectfully requests that you take into consideration the practicability of utilizing the architectural department of the University in the preparation of plans, specifications, and estimates of cost for the proposed library building of the University, in accordance with the resolution of the Board of Trustees adopted December 27th.

The Committee not being sufficiently informed as to the feasibility of such a collateral engagement of the professors, desires to obtain a complete statement from yourself, and also your opinion, for its guidance.

R. P. MORGAN,  
N. B. MORRISON,  
I. S. RAYMOND,

*Committee on Buildings and Grounds.*

#### REPLY.

URBANA, January 2, 1896.

*Richard P. Morgan, N. B. Morrison, Isaac S. Raymond, Alexander McLean,  
Committee on Buildings and Grounds,*

GENTLEMEN: Replying to your favor of the 28th ult., requesting me to take into consideration the practicability of utilizing the architectural department of the University in the preparation of plans, specifications and estimates of cost, for the proposed library building of the University, in accordance with

the resolution of the Board of Trustees adopted December 28th, I advise you that I have held several extended interviews with the professor and the assistant professor of architecture touching the matter. These gentlemen have expressed serious apprehensions as to their ability to find the time to carry out this important undertaking while carrying their regular University work. I have answered them that I understand the Board is very willing to make provision for any expense which may be incurred either in employing draughtsmen to assist them upon the plans or in employing instructors to assist in the work of instruction. It has therefore been concluded to advise your committee that upon this understanding Professor Ricker and Professor White will undertake to present to the committee, in less than thirty days, several sketches and estimates of cost for the proposed building, and they have already entered enthusiastically upon the work of preparation. I am,

Very truly yours,

A. S. DRAPER,

*President.*

Under this arrangement four designs were prepared and submitted to this Committee, at the University, on the 28th of January, 1896. After careful consideration of the designs the following motion was adopted:

MEETING OF BUILDINGS AND GROUNDS COMMITTEE.

PRESIDENT'S OFFICE, UNIVERSITY OF ILLINOIS.

January 28, 1896.

On motion of Mr. Raymond, Mr. Morrison was instructed to proceed to Springfield at the earliest possible day, accompanied by Professor Ricker or Professor White, for the purpose of submitting the designs for the library building, prepared by the architectural department, to Governor Altgeld, for consultation with him, and to report promptly and fully to the Chairman of this Committee the result of the interview.

RICHARD P. MORGAN,

*Chairman.*

Mr. Morrison being, in consequence of sickness, unable to attend to the matter, a meeting was arranged with Governor Altgeld at his office in Chicago, on Tuesday, February 4th, at which there were present, Governor Altgeld, Professor Ricker, Professor White, and Mr. Morgan. The plans were fully explained by Professor Ricker and Professor White, and after full consideration the purely Romanesque design was considered satisfactory to all.

On the evening of the same day your Committee invited a conference, at the Palmer House, of the Trustees residing in Chicago, at which were present, Mrs. Flower, Mrs. Dr. Smith, Mr. Armstrong, and Mr. Morgan. At this meeting there was a very thorough discussion of the merits of the several designs, which resulted in a unanimous agreement upon the Romanesque design. The question of the employment of Professors Ricker and White to supervise the construction of the building, and also their compensation, were fully considered and this Committee was informally instructed to arrange with those gentlemen in its discretion.

That the entire responsibility of thus employing Professor Ricker and Professor White, in a degree out of the educational corps of the University, should not rest upon President Draper, and also for the general information of the Trustees upon the subject, your Committee addressed a letter of inquiry to President Angell, of the University of Michigan, and to Professor Adams, of the University of Wisconsin, and received the replies now read.

After this preparatory work and having received the unanimous approval of the Trustees of the Romanesque design, your Committee entered into the following agreement with Professors Ricker and White.

## COPY.

*Memorandum of an agreement* entered into this eighth day of February, 1896, by and between the University of Illinois, through its Committee on Buildings and Grounds, of the first part, and N. Clifford Ricker and James M. White of the second part.

The party of the first part accepts and approves the Romanesque design (No. 4) for a library building to be erected for the University.

The parties of the second part agree to work out sufficiently the details of said design for examination by the Board at a meeting to be held on March 10, 1896, and fully to complete same for bidders not later than April 15, 1896, and as much earlier as possible.

It is agreed by the party of the first part to pay to the party of the second part the usual commission of five per cent. on the total cost of said library building.

It is agreed by the parties of the second part that the present efficiency of the architectural department shall be maintained and that all additional instructors required to secure this end shall be employed and that any additional instructors so required shall be paid by the parties of the second part out of their commissions. The amount of this assistance, the particular persons employed, and the salaries paid shall be entirely subject to the acceptance and approval of the President of the University.

It is agreed by the parties of the first part that funds shall be advanced on account of the commission of the parties of the second part as may be required to pay salaries, and for material and other necessary expenses. These payments shall be made on the certificates of the parties of the second part, after having the approval of the President of the University. One-half of the commissions to the parties of the second part shall become due and payable at the time contracts are signed for the erection of the building and shall be then paid to the parties of the second part after deducting such advances as may have been made. The remainder of said commission shall be paid in installments as the work progresses.

It is agreed by the parties of the second part to devote as much time as necessary and give personal supervision to the construction of the building, and it is also agreed that one of the said parties of the second part shall be present at the University at all times.

It is agreed that suitable rooms shall be provided by the party of the first part, as may be approved by the President, for carrying on the work herein referred to, and it is also agreed that the architectural work herein referred to shall be advanced with all possible speed.

UNIVERSITY OF ILLINOIS, by

RICHARD P. MORGAN,

*Chairman Committee on Buildings and Grounds,*

*Parties of the first part.*

N. CLIFFORD RICKER,

JAMES M. WHITE,

*Parties of the second part.*

The foregoing agreement, so far as the instruction work is concerned, meets with my approval.

A. S. DRAPER,

*President of the University of Illinois.*

Respectfully submitted,

RICHARD P. MORGAN,

ISAAC S. RAYMOND,

N. B. MORRISON,

ALEX. MCLEAN,

*Committee on Buildings and Grounds.*

Mr. Bullard moved that the report of the committee be adopted. While this motion was pending, the Board adjourned to meet at 8:30 o'clock Wednesday morning.



## SESSION OF WEDNESDAY MORNING.

When the Board convened pursuant to adjournment the same members were present as on Tuesday.

After further consideration of the report on the library building Mr. Bullard's motion was passed.

President Armstrong announced the standing committees of the Board as follows:

## STANDING COMMITTEES.

*Farm*—I. S. Raymond, chairman; N. B. Morrison, Alex. McLean, J. W. Judy.

*Buildings and Grounds*—S. A. Bullard, chairman; R. P. Morgan, I. S. Raymond, Mrs. Flower.

*Finance*—N. B. Morrison, chairman; N. W. Graham, S. A. Bullard.

*Instruction*—Mrs. Flower, chairman; S. M. Inglis, Dr. Smith, N. W. Graham.

*Publication*—Mr. Morgan, chairman; President Draper, W. L. Pillsbury.

*Library*—President Draper, chairman; S. M. Inglis, Alex. McLean, Professor S. W. Shattuck, Percy F. Bicknell.

*Students' Welfare*—Julia Holmes Smith, chairman; R. P. Morgan, N. W. Graham.

Mr. Morrison from the Finance Committee, reported back the claim of the Garvin Machine Co. (see page 195) without recommendation and, on motion of Mr. Bullard, the Secretary was instructed to write the Garvin Machine Co. that this Board does not consider the papers presented by the company sufficient to establish a claim against the University.

On motion of Mr. Morgan the following resolutions were adopted:

*Resolved*, That the architects of the library building are hereby instructed to construct the tower of the building in a manner to enable the hanging of a suitable chime of bells in the tower of the same. And be it further

*Resolved*, That the Trustees of the University shall establish in the tower a chime of bells in the name of the first reputable citizen of the State of Illinois who shall deposit with them, as a donation, a sum of money sufficient to purchase a chime of bells satisfactory to the Trustees.

President Draper, from the committee appointed for the purpose, reported rules concerning the conduct of business in the University, as follows:

## RULES GOVERNING THE TRANSACTION OF BUSINESS, THE KEEPING OF ACCOUNTS AND THE CUSTODY OF FUNDS OF THE UNIVERSITY OF ILLINOIS.

The following rules are adopted for the observance of officers charged with the management of the business, the keeping of the accounts, and the custody of the moneys of the University, and shall apply to the affairs of the Agricultural Experiment Station and of the State Laboratory of Natural History, as well as the affairs of the University, except that the accounts of the Experiment Station and of the State Laboratory shall be kept in separate books, and that in the transaction of the business of the Experiment Station the action of the Board of Direction of the Station shall be accepted for that of the Board of Trustees of the University when within the scope of the delegated powers conferred upon the Board of Direction and pursuant to appropriations made by the Board of Trustees.

RECEIPTS, INVESTMENTS, AND ACCOUNTING.

1. The Treasurer shall be the custodian of the funds and securities belonging to the University.
2. The Treasurer shall collect, as it becomes due, the interest accruing on the money and securities (including land contracts) of the University, and shall collect the principal of said securities when it becomes due. He shall collect all general and special appropriations made to the University by the state and the United States.
3. The Treasurer shall keep the accounts of the moneys in his custody in such separate funds as shall be indicated by the Board of Trustees, or as are desirable and necessary for the proper and systematic accounting for the moneys coming into the treasury.
4. At each regular meeting of the Board, the Treasurer shall report in detail the transactions of his office for the quarter preceding the meeting, and shall report the condition of the treasury at such time, and also at any other time the Board may request.
5. The Treasurer shall report to the Secretary, for record, a complete description of each of the securities the Finance Committee may place in his custody, within ten days after such action of the Finance Committee.
6. The Treasurer shall pay out money on warrants signed by the Chairman of the Board of Trustees and the Secretary, and shall not do so otherwise; and he shall submit his paid warrants to the Board for audit by the Finance Committee.
7. The endowment fund shall be kept constantly invested by the Treasurer and the Finance Committee of the Board. The Treasurer shall forthwith report all changes in investments to the Secretary, who shall enter the same in his records. The Committee shall report its action concerning the investment of funds at each regular meeting of the Board, for approval.
8. The Secretary shall keep an accurate account of each of the securities reported by the Treasurer, in a register, and shall report maturing securities to the Board at least one quarter before maturity. He shall report the amount of interest accrued on the securities of the University during the previous quarter.
9. The Business Manager shall be the general business agent and financial accountant of the University. He shall collect and account for all money from dues, fees, tuition, and all other sources not required to be collected by the Treasurer.
10. The Business Manager shall report monthly to the Treasurer the moneys received by him, turning over to him all money, except such as he and the Treasurer may agree to be necessary for the proper conduct of the petty business of his office. Single transactions involving less than \$50 in money may be classified as "petty business."
11. The Business Manager shall report to the Board at its regular meetings the financial condition of the University, with such recommendations for appropriations as may be necessary; and also the transactions of his office for the quarter preceding, and oftener, if requested by the Board. His report shall include a detailed statement of all moneys received and from what sources, shall show the amounts paid to the Treasurer, and all accounts audited, warrants drawn, and balances standing to the credit of the different funds.
12. The Registrar shall report in detail to the Board, at each regular meeting, the number of students, who, during the quarter preceding, were indebted to the University for term fees, tuition, deposits, and all other financial obligations imposed by their attendance upon the University.
13. No department of the University shall receive any funds unless specially authorized by the Business Manager, in writing, to do so. In all such cases he shall furnish the department so authorized a book in which the proper person shall enter a record of all transactions, specifying the date, the person from whom the money was received and the purpose or consideration for which it was received, and at the end of each month, or oftener, if

the Business Manager shall request, the department receiving such money shall report to the Business Manager, upon a proper blank to be prepared for the purpose, a transcript of his memorandum book, and account and pay over the moneys so received, and the Business Manager shall keep said reports on file in his office and enter the funds so received in his books.

EXPENDITURES, CONTRACTS, OBLIGATIONS, AND PAYMENTS.

1. No expenditures shall be made except on the authority of the Board, and after an appropriation of money therefor, as evidenced by its records. In an emergency requiring immediate action the President and Business Manager may, by concurrent action, incur an expense not greater than \$250, and the Executive Committee of the Board of Trustees may, of course, act in any matter at any time.

2. All appropriations shall lapse at the end of the fiscal year unless otherwise specially ordered. By a vote of the Board an appropriation may be made to lapse at any time.

3. Articles or materials for the University shall be purchased by persons or committees designated by order of the Board. When none are designated the Business Manager shall act as purchasing agent.

4. The Business Manager shall issue an order for purchase to persons authorized by the Board to make purchases, but shall not do so unless the records of the Board show that the purchase has been authorized and that the money for payment therefor has been appropriated. The order shall clearly set forth the articles or materials ordered, and shall state the fund from which the account is to be paid. The order of the Business Manager shall accompany all bills of account for purchases, (or said bills shall refer to said orders,) on presentation of such bills for audit and payment. But no order for the purchase of furniture, apparatus, or equipment, unless specifically ordered by the Board of Trustees, shall be made unless the advisability of such purchase is approved by the President of the University, nor unless the price which it is proposed to pay is approved by the Business Manager.

5. The persons composing the force of administrative officers, and the clerks or other employes of the departments, and the Corps of Instruction, shall be employed and salaries fixed by the Board. The monthly payroll of such persons shall be approved by the President of the University, but he shall not approve the pay of any person who has not rendered prescribed service during the month, unless such service has been previously formally excused by the Board or by the President of the University, under the rules for the government of the instructional force. The Business Manager shall prepare the payroll for the approval of the President each month, setting forth for each person the amount of salary for the month, as fixed by the Board.

6. All help employed, exclusive of the persons referred to in the preceding rule, shall be employed by the Superintendent of Buildings and Grounds, with the approval of the President of the University, provided that before doing so the Superintendent shall secure the certificate of the Business Manager that the employment has been authorized and the money therefor appropriated by the Board. At the time of the employment of each person by him he shall determine the price to be paid, except in cases where the same has been determined by the Board, and he shall keep a record in a suitable book, to be provided for the purpose, of the name of the person so employed, the time when employed, the length of service, and the amount to be paid, and he shall report the same to the Business Manager whenever requested; and he shall prepare and deliver to the Business Manager the payrolls covering such help at the termination of the employment or at such other time as he may be requested so to do.

7. The employes of the Agricultural Experiment Station shall be appointed by the Board of Direction of the Station, or by the Director of said Station when authorized by said Board, but no appointment shall be made unless the same shall have been authorized by the Board of Trustees. The Business Manager and the Secretary of the Board of Trustees shall, upon application,

afford information to the Board of Direction of the Experiment Station touching the action of the Board of Trustees and the condition of the funds in which the Board of Direction and the Station may be interested. The payroll of said employes shall be made and certified by the Director of the Station to the Business Manager at such times as that officer may request.

8. The employes of the State Laboratory of Natural History shall be appointed by the Director of the Laboratory, but not until such appointments shall have been authorized by the Board of Trustees, and the payroll of said employes shall be made out and certified by the Director and delivered by him to the Business Manager at such times as that officer may request.

9. Purchases to an amount exceeding \$100.00 shall be let by contract, after competition, unless the character of the material or articles renders competition unpracticable. Contracts shall be let by the Board or a committee appointed by the Board, and shall be signed for the University by the Chairman and Secretary of the Board of Trustees, unless other persons or committees are authorized by the Board to perform that service.

10. Contracts shall be filed with the Business Manager by the officers of the Board authorized to enter into the contracts, and payment in full or in part shall be made on contracts only on the certificate of some person authorized by the Board to make a certificate that the contract or a part thereof has been acceptably fulfilled, and that under the terms of the contract a certain stated amount is due and payable.

11. The Business Manager shall act as the auditor of the Board, and all bills shall be presented to him for audit, but no bills relating to labor upon buildings and grounds shall be audited and paid unless approved by the Superintendent of Buildings and Grounds, and all other bills must have the approval of the President of the University unless they are for continuing salaries, contracts, or other running accounts specially authorized by the Board; and in all cases payment of any bill or account shall be suspended on the request of the President of the University pending the action of the Board of Trustees.

12. Bills for purchases, when rendered, must be accompanied by the order hereinbefore provided for, and if for materials or articles delivered then also by the receipt of the officer, member of the instructional force, or employé who received them, that the same were received by him in good condition, and that they were of the quality, kind, and price prescribed.

13. When any account against the University is found to be just and due, created by the authority of the Board, and one that an appropriation has been made to pay, and is presented in accordance with the requirements of the Board, and has been approved by the proper officer, the Business Manager shall approve and audit the same, stamp his approval upon the face of the bill, issue a warrant against the Treasurer for the amount thereof, and send said warrant to the Chairman of the Board of Trustees for signature. The Chairman shall sign the same, if he thinks proper, and in that event he shall forthwith forward it to the Secretary. In case he declines to sign the same he shall return it to the Business Manager with his reasons for such declination. The Secretary shall, as soon as he receives a warrant, make a proper record thereof in his books, sign the same, and deliver it to the Business Manager, who shall enter the same in his warrant book, giving its number, for what issued, to whom payable, and the appropriation from which it is to be paid.

Separate warrant books shall be kept for the University, the Agricultural Experiment Station, and the State Laboratory of Natural History.

The Business Manager shall deliver the signed warrants which he receives to the payee therein named in exchange for such receipts or evidences of discharge as may be required to meet the needs of the University accounts.

When a bill or claim is for less than \$50.00 the Business Manager may, at his discretion, pay the same in cash, if, in his opinion, the business of the University will be better expedited thereby. Before such payment the Secre-

tary shall, however, make a record of said bill, and soon after payment, certainly as often as once in each month, and as much oftener as he prefers, the Business Manager shall make a statement of all such payments, accompanied by the vouchers therefor, and draw a warrant to his own order for the sum thereof, and forward both to the Chairman of the Board of Trustees for approval and signature. If the payments are approved the Chairman shall endorse his approval upon said statement, and shall sign the accompanying warrant and forward both to the Secretary, who shall also sign both and note the fact against the previous record, and deliver said statement and warrant to the Business Manager, who shall make proper entries of their receipt in his books, shall file the statement in his office, endorse the warrant and deliver the same to the Treasurer, who shall receive the same as cash and credit the Business Manager with the amount thereof.

14. The Business Manager, Treasurer, and Secretary shall report fully to each regular meeting of the Board, and their reports shall be examined by the Finance Committee of the Board, and said committee shall forthwith report its findings and recommendations to the Board for approval.

15. The fiscal year of the University shall begin on the first day of July in each year and end upon the 30th day of June next succeeding, but all reports shall be made as required by law.

16. The officers of the Board shall cause new account books to be prepared, and shall open the same and transfer all balances to them at the beginning of the next fiscal year, and shall prepare all blank forms necessary for carrying the foregoing rules into effect.

17. The foregoing rules shall be observed from the time of their adoption so far as practicable, and shall be fully in effect from and after the first day of July, 1896.

The report of the committee was adopted.

The Committee on Finance offered the following report, which was approved:

URBANA, March 11, 1896.

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

GENTLEMEN: Your Committee on Finance has examined the vouchers submitted by the Agricultural Experiment Station Nos. 84 to 168, inclusive, and has found the same correct and duly receipted.

Respectfully submitted,

N. B. MORRISON,  
S. A. BULLARD,  
N. W. GRAHAM,

*Finance Committee.*

The Treasurer's report was received and referred to the Finance Committee.

#### TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,  
FEBRUARY 29, 1896.

		<i>Dr.</i>	
1895.			
November 30	Balance		\$152,470 61
December 16	From F. Topka, interest on land contract No. 18.....	\$52 50	
" 18	" Wenzl Kopacek, principal on land contract No. 65..	500 00	
" 18	" Wenzl Kopacek, interest on land contract No. 65..	65 00	
" 24	" S. W. Shattuck, paid warrants, general fund.....	1,915 97	
" 30	" Jos. Novotny, interest on contract No. 53.....	40 00	
" 31	" Jos. Dezort, interest on contract No. 40.....	96 00	
1896.			
January 2	From L. S. Botten, principal on contract No. 83.....	200 00	
" 2	" L. S. Botten, interest on contract No. 83.....	39 20	
" 2	" Wm. Buethe, principal on contract No. 80.....	120 00	
" 2	" Wm. Buethe, interest on contract No. 80.....	58 80	
" 2	" Rier O. Braaten, interest on contract No. 63.....	4 39	
" 3	" Erick Lindquist, interest on contract No. 64.....	77 00	
" 3	Village of Austin coupons due January 1, 1896.....	575 00	

*Treasurer's Report—Continued.*

		<i>Dr.</i>		
1895.				
January	3	From Dale & Roise, principal on contract No. 72.....	\$120 00	
"	3	Dale & Roise, interest on contract No. 72.....	58 80	
"	3	Olof Mattson, interest on land contract No. 73.....	200 00	
"	3	Olof Mattson, interest on land contract No. 73.....	84 00	
"	3	Jos. Cuta, principal on contract No. 65.....	100 00	
"	3	Jos. Cuta, interest on contract No. 65.....	35 00	
"	4	Crawford county coupons due Jan. 1, 1896.....	600 00	
"	4	Gallatin county coupons due Jan. 1, 1896.....	630 00	
"	6	From Berthal Pederson, principal on contract No. 69.....	50 00	
"	6	Berthal Pederson, interest on contract No. 69.....	14 70	
"	6	Berthal Pederson, principal on contract No. 74.....	105 00	
"	6	Berthal Pederson, interest on contract No. 74.....	14 70	
"	6	U. S. Treasury, Experiment Station warrant, due Jan. 1, 1896.....	3,750 00	
"	8	Peter Larson, principal on contract No. 66.....	133 33	
"	8	Peter Larson, interest on contract No. 66.....	84 00	
"	9	S. J. Hallquist, principal on contract No. 75.....	150 00	
"	9	S. J. Hallquist, interest on contract No. 75.....	63 00	
"	9	S. J. Hallquist, principal on contract No. 76.....	13 50	
"	9	S. J. Hallquist, interest on contract No. 76.....	73 50	
"	11	J. E. Blickenstaff, interest on contract No. 39.....	24 00	
"	13	Nels Olson, on contract No. 99.....	25 00	
"	13	Nels Olson, interest on contract No. 99.....	35 00	
"	16	Ole Lundquist, interest on contract No. 112.....	25 25	
"	16	W. L. Pillsbury, on account farm fund, credit.....	1,015 01	
"	18	Hans Vesterud, interest on land contract No. 84.....	23 54	
"	18	Hans Vesterud, interest on land contract No. 85.....	23 54	
"	18	Hans Vesterud, taxes on contracts Nos. 84 and 85.....	9 15	
"	27	Burnham, Trevett & Mattis, Beatrice, Neb., redemption and interest tax certificates Nos. 5649 and 5650 on contract Middleton.....	38 00	
"	28	S. W. Shattuck, paid warrants on account general fund.....	4,530 76	
February	3	Ole Sorenson, principal on contract No. 79.....	984 20	
"	3	Ole Sorenson, interest on contract No. 79.....	158 35	
"	3	Union School District No. 6, Champaign county, coupons due Feb. 1, 1896.....	270 00	
"	4	From Ole Sorenson, interest on contract No. 79.....	2 89	
"	4	Mattoon, Coles county, Ill., coupons.....	150 00	
"	24	From S. W. Shattuck, paid warrants on account general fund.....	3,948 00	
"	29	From S. W. Shattuck, paid warrants on account general fund.....	1,229 07	
"	29	Interest Dec., Jan., and Feb. on endowment fund at 4 per cent.....	280 00	
"	29	Interest Dec., Jan., and Feb. on all other funds at 2½ per cent.....	577 30	
				\$23,372 45
				<u>\$175,843 06</u>
		<i>Cr.</i>		
1896.				
February	29	By amount paid out of general fund, as per list of warrants attached hereto.....	\$10,735 80	
"	29	By amount paid out of state appropriation for salaries, etc., as per list of warrants attached hereto.....	36,250 05	
"	29	By amount paid out of state appropriation for furnishing and heating Natural History Hall, as per list of warrants attached hereto.....	315 33	
"	29	By amount paid out of state appropriation for Library, as per list of warrants attached hereto.....	1,048 25	
"	29	By amount paid out of state appropriation for Laboratory of Natural History, as per list of warrants attached hereto.....	2,321 93	
"	29	By amount paid out of state appropriation for cabinets, as per list of warrants attached hereto.....	234 23	
"	29	By amount paid out of state appropriation for Engineering College, as per list of warrants attached hereto.....	8,893 78	
"	29	By amount paid out of state appropriation for Astronomical Observatory, as per list of warrants attached hereto.....	26 00	
"	29	By amount paid out of state appropriation for fitting and furnishing Engineering Hall, as per list of warrants attached hereto.....	254 54	
"	29	By amount paid out of state appropriation for building and equipment of Biological Experiment Station, as per list of warrants attached hereto.....	45 48	
"	29	By amount paid out of state appropriation for Biological Experiment Station, as per list of warrants attached hereto.....	452 98	

*Treasurer's Report—Continued.*

February 29	By amount paid out of state appropriation for apparatus and material, as per list of warrants attached hereto.	\$1,235 16	
" 29	By amount paid out of state appropriation for shop practice, as per list of warrants attached hereto.....	798 46	
" 29	By amount paid out of state appropriation for Chemical Laboratory, as per list of warrants attached hereto....	1,302 67	
" 29	By amount paid out of state appropriation for Laboratory of Vegetable Physiology, as per list of warrants attached hereto .....	1,457 93	
" 29	By amount paid out of state appropriation for paving streets and walks, as per list of warrants attached hereto .....	183 56	
" 29	By amount paid out of state appropriation for fire protection, as per list of warrants attached hereto .....	95 60	
" 29	By amount paid out of U. S. fund as per list of warrants attached hereto .....	7,490 74	
" 29	By amount paid out of U. S. fund for the Experiment Station, as per list of warrants attached hereto .....	3,112 12	
" 29	By amount paid out of U. S. Experiment Station farm account, as per list of warrants attached hereto.....	621 65	\$76,876 56
	Balances—		
	General fund.....	\$8,238 47	
	Endowment fund.....	28,945 93	
	U. S. Experiment Station fund.....	3,739 22	
	Experiment Station farm fund.....	597 72	
	U. S. fund.....	49 09	
	State appropriations—		
	For salaries .....	30,421 98	
	For library .....	1,199 37	
	For Laboratory of Natural History.....	3,702 23	
	For cabinets.....	768 51	
	For Engineering College.....	5,133 34	
	For Astronomical Observatory .....	4,974 00	
	For fitting and furnishing Engineering Hall.....	2,439 39	
	For building and equipment of Biological Experiment Station.....	1,682 29	
	For Biological Experiment Station .....	281 15	
	For apparatus and material.....	1,188 98	
	For shop practice.....	447 49	
	For Chemical Laboratory .....	2,251 31	
	For Laboratory of Vegetable Physiology.....	309 37	
	For fire protection.....	1,702 21	
	For paving street and walks .....	894 45	
			98,966 50
			\$175,843 06

A letter from Mr. F. E. Bonham, a student of the University, was, on motion of Mr. Inglis, referred to the President of the University.

It was now 11 o'clock and the Board adjourned until 2 o'clock in order that the rest of the forenoon might be spent in the architects' rooms in examining the plans for the library building.

## WEDNESDAY AFTERNOON SESSION.

Upon convening in the afternoon, the Board, by the following vote, authorized the carrying out of the idea of the architects in using stone of two colors in the exterior walls of the building: Yeas—Flower, Bullard, Smith, Graham, Armstrong, Raymond; nays—Inglis, McLean, Morgan, Morrison.

Mr. McLean offered the following resolution:

*Resolved*, That the new library building be erected on the northwest corner of the present quadrangle, and in front of the President's House, where stakes are now set, in lieu of the site heretofore selected south of the greenhouse.

This resolution was lost by the following vote: Yeas—Inglis, McLean, Morgan, Smith, Graham; nays—Flower, Bullard, Morrison, Armstrong, Raymond.

The proceedings of the Board were interrupted for a few moments, during which Professor Breckenridge, in behalf of the mechanical engineering department, presented to Mr. Graham a beautiful chess table which had been made of India teak in the shops. On motion of Mr. Morgan, the thanks of the Board were returned to the gentlemen who had made and presented the table.

On motion of Mr. McLean, it was voted that the Board, when it adjourned, should adjourn to meet at the call of the President, and that the Board should be called to meet as soon as the architects could have working plans and specifications ready to submit.

Mr. Morgan, from the Committee on Buildings and Grounds, presented the bill of D. H. Burnham & Co. for \$1,000 for professional services and traveling expenses, and recommended the payment of the bill. The bill was ordered paid.

Mr. Morgan moved the payment of \$300 to Professor Ricker for furnishing plans and supervising the construction of machinery hall; of \$300 to Professor Talbot for services in supervising the laying of pavements and walks; of \$125 to Professor Breckenridge for services in connection with the equipment of machinery hall, and the heating of the President's House; \$300 to Professor White for supervising the construction of the President's House; and of \$100 to Mr. C. A. Gunn for furnishing plans for the Observatory, and the motion prevailed.

The President of the Board was authorized to endorse, in the name of the Board of Trustees, a note which had been received for the deferred payment for the Griggs farm, in order to effect a sale of said note.

Sundry bills for material and work done on the ladies' parlor and the rooms of the music department, amounting in all to \$108.37, were ordered paid.

The Board refused to grant a petition received from Mr. O. K. Doney, who had been a student of the University, asking for the return of a part of his fees on account of his withdrawal from the University during the term.

An informal report with regard to the proposition made to the Board at its meeting of December 10th by the Chicago College of Pharmacy was made by the committee appointed to investigate the matter.

Mr. W. B. Day, Actuary of the College, was also heard.

On motion of Mr. McLean, Mrs. Flower and Mr. Morgan were added to the committee, and the committee was instructed to investigate further and report at the next meeting of the Board.



Mr. Morgan, from the Committee on Buildings and Grounds, presented the bill of the Maltby & Wallace Co for heating plant in machinery hall, and recommended that the bill be paid and that the amount thereof, \$1,118.05, be appropriated. The bill was approved and ordered paid as recommended.

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

# BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, March 10, 1896.

N. W. Graham, *President of the Board of Trustees, University of Illinois*,

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

*Paper A*, a statement of current appropriations for the three months ending February 29, 1896.

*Paper B*, a statement of the state appropriations, February 29, 1896.

*Paper C*, a statement of the U. S. fund, same date.

## PAPER A—CURRENT APPROPRIATIONS.

December 10, 1895.	Appropriated.	Expended.	Balance.
Board expenses.....	\$500 00	\$484 38	\$15 62
Salaries for instruction { Current.....	24,415 00	{ 10 50	5 25
and for President { U. S. Fund.....		{ 3,496 62	
{ State.....		{ 20,902 63	
Salaries for services { Current.....	3,500 00	{ 196 35	22 90
{ State.....		{ 3,280 75	
Buildings and grounds.....	139 87	134 11	5 76
Fuel and lights.....	3,000 00	2,436 72	563 28
Stationery and printing.....	500 00	339 36	160 64
Preparatory School, salaries.....	1,365 00	1,365 00	
Repair shop.....	300 00	196 34	103 66
Mechanical department.....	497 94	474 99	22 95
Departments.....	152 06	125 01	27 05
Laboratories.....	1,000 00	342 31	657 69
Library and apparatus.....	50 00	26 11	23 89
Incidentals.....	400 00	302 49	97 51
<i>Sundries.</i>			
President's House.....	5,000 00	2,859 44	2,140 56
Water supply.....	125 00	125 00	
Heating apparatus.....	500 00	100 09	399 91
Furniture and fixtures.....	300 00	172 06	127 94
Treasurer's expenses and interest.....	235 11		
Gymnasium.....	50 00	14 62	35 38
South farm.....	60 00	54 83	5 17
Attorney's fees.....	55 00	55 00	
President Draper's expenses.....	116 60	116 60	
Senator Morrill's bust.....	30 00		30 00
Total.....	\$42,291 58	\$37,846 42	\$4,445 16

## PAPER B—STATE APPROPRIATIONS.

December 10, 1895.	Received.	Expended.	Balance.	Assigned.
<i>For the years 1893-1895,</i>				
Closed out .....	\$282,679 14	\$282,679 14		
Cabinets .....	1,000 00	1,000 00		
Furnishing and heating Nat. Hist. Hall .....	6,000 00	6,000 00		
Applied mechanics .....	472 00	469 66	\$2 34	\$2 34
Botany .....	405 00	405 65	44 35	44 35
Zoölogy .....	1,200 00	1,200 00		
Mechanical engineering .....	4,000 00	4,000 00		
Pedagogy .....	150 00	127 16	22 84	22 84
Greek .....	150 00	111 68	38 32	38 32
Woman's gymnasium .....	300 00	246 02	53 98	53 98
	\$296,401 14	\$296,239 31	\$161 83	\$161 83
<i>For the years 1895-1897.</i>				
<i>Apparatus and materials—</i>				
Psychology .....	\$300 00	\$103 57	\$196 43	\$196 43
Zoölogy .....	500 00	169 79	330 21	330 21
Chemistry .....	500 00	499 70	30	30
Applied chemistry .....	500 00	500 00		
Geology .....	400 00	400 00		
Physiology .....	500 00	266 87	233 13	233 13
Botany and horticulture .....	300 00	262 25	37 75	37 75
	\$3,000 00	\$2,202 18	\$797 82	\$797 82
<i>Operating Biological Experiment Station</i> .....	\$1,500 00	\$1,322 20	\$177 80	\$177 80
<i>Biological Experiment Station Equipment</i> .....	\$2,500 00	\$833 27	\$1,666 73	\$1,666 73
<i>Paving streets, etc</i> .....	\$9,300 00	\$8,468 05	\$831 95	\$831 95
<i>Astronomical Observatory</i> .....	\$5,000 00	\$26 00	\$4,974 00	\$4,974 00
<i>Illinois State Laboratory of Natural History</i> .....	\$9,900 00	\$7,079 57	\$2,820 43	\$2,820 43
<i>Laboratory of Vegetable Physiology</i> .....	\$2,000 00	\$1,813 29	\$186 71	\$186 71
<i>Salaries, etc.—</i>				
Salaries for instruction .....	\$33,205 66	\$33,205 66		
Salaries for services .....	6,391 97	6,391 97		
Heating apparatus .....	500 00	455 45	\$44 55	\$44 55
Library catalogue .....	400 00	255 36	144 64	144 64
Buildings and grounds .....	1,735 07	1,735 07		
Library building designs .....	1,100 00	1,100 00		
Toilet rooms .....	375 00	157 00	218 00	218 00
Arboretum sewer .....	400 00	231 81	118 19	118 19
President's House .....	8,000 00	8,000 00		
Art and design .....	250 00	185 33	64 67	64 67
Physical culture .....	820 00	817 27	2 73	2 73
School of Music .....	1,050 00	962 09	87 91	87 91
Lectures .....	1,000 00	757 91	242 09	242 09
Agriculture .....	3,000 00	2,796 09	203 91	203 91
Farm house .....	175 00	153 13	21 87	21 87
Fuel and lights .....	2,000 00	2,000 00		
Preparatory School .....	90 00	59 34	30 66	30 66
Advertising and catalogue .....	1,900 00	288 06	1,611 94	1,611 94
University magazine .....	800 00		800 00	800 00
<i>Illini</i> .....	500 00	250 00	250 00	250 00
Oratorical contest .....	100 00		100 00	100 00
Gas fixtures .....	100 00	88 23	11 77	11 77
Accredited schools .....	245 00	152 06	92 94	92 94
<i>Illio</i> .....	100 00	100 00		
<i>Technograph</i> .....	100 00	100 00		
U. S. flag .....	65 00	65 00		
Applied chemistry .....	150 00	120 33	29 67	29 67
Entomological room .....	200 00	163 15	36 85	36 85
College of Literature and Arts, books .....	200 00		200 00	200 00
Unassigned .....	25,047 30		25,047 30	
	\$90,000 00	\$60,640 31	\$29,359 69	\$4,312 39

PAPER B—STATE APPROPRIATIONS—*Continued.*

	Received.	Expended.	Balance.	Assigned.
<i>Fire protection</i> .....	\$2,000 00	\$297 79	\$1,702 21	\$1,702 21
<i>Library</i> .....	\$3,000 00	\$2,093 21	\$906 79	\$906 79
<i>Cabinets—</i>				
Geology .....	\$400 00	\$285 11	\$114 89	\$114 89
Unassigned .....	600 00		600 00	
	\$1,000 00	\$285 11	\$714 89	\$114 89
<i>Taxes and lands</i> .....	\$1,600 00	\$1,600 00		
<i>College of Engineering—</i>				
Machine shop .....	\$15,000 00	\$14,808 61	\$191 39	\$191 39
Equipment .....	10,000 00	6,417 82	3,582 18	3,582 18
	\$25,000 00	\$21,226 43	\$3,773 57	\$3,773 57
<i>Furniture and fixtures, Engineering Hall—</i>				
Electric wiring .....	\$1,191 77	\$1,191 77		
Furniture .....	2,302 90	1,632 58	\$670 32	\$670 32
Unassigned .....	1,505 33		1,505 33	
	\$5,000 00	\$2,824 35	\$2,175 65	\$670 32
<i>Shop practice—</i>				
Mechanical Department .....	\$1,250 00	\$1,116 06	\$133 94	\$133 94
Unassigned .....	250 00		250 00	
	\$1,500 00	\$1,116 06	\$383 94	\$133 94
<i>Chemical Laboratory</i> .....	\$3,750 00	\$2,926 55	\$823 45	\$823 45
Unassigned .....	1,250 00		1,250 00	
	\$5,000 00	\$2,926 55	\$2,073 45	\$823 45

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1894.</i>				
Before reported on .....	\$18,500 00	\$18,500 00		
Architecture .....	500 00	477 93	\$22 97	\$22 07
Total .....	\$19,000 00	\$18,977 93	\$22 07	\$22 07
<i>Year ending June 30, 1895.</i>				
Before reported on .....	\$20,000 00	\$20,000 00		
<i>Year ending June 30, 1896.</i>				
Salaries for instruction .....	\$20,972 98	\$20,972 98		
Unassigned .....	27 02		\$27 02	
Total .....	\$21,000 00	20,972 98	\$27 02	

*Paper D*, a list of vouchers presented for audit, being 1 to 675, inclusive.

*Paper E*, estimated receipts and expenses for the six months ending September 1st, not including the state and United States funds, due in July.

*Paper F*, a list of appropriations the Board is requested to make at this time.

*Paper G*, a statement of the collections made by the Business Manager in the three months ending February 29, 1896.

The attention of the Board is drawn to the fact that expenditures are made under the state appropriation for a library building, and from the balance \$5,000 for the Engineering College which have not been received from the state. This condition will complicate our accounts badly, within a short time.

The Board is requested to authorize the employment, in the business office of a clerk, to give his full time, at a salary of \$45 per month.

Respectfully submitted,

S. W. SHATTUCK,

*Business Manager.*

Mr. Morrison, from the Finance Committee, recommended appropriations as follows, in accordance with the request of the Business Manager:

Board expenses .....	\$500 00
Salaries for instruction and President .....	25,800 00
Salaries for services .....	3,400 00
Buildings and grounds .....	750 00
Fuel and lights and electric power .....	1,500 00
Stationery, printing, and postage .....	600 00
Mechanical department .....	600 00
Departments .....	100 00
Laboratories .....	500 00
Library and apparatus .....	50 00
Incidentals .....	400 00
Heating apparatus .....	200 00
Furniture and fixtures .....	200 00
Water supply .....	125 00
Gymnasium .....	50 00
Repair shops .....	300 00
Commencement .....	300 00
Senator Morrill's bust, balance .....	30 00
President's House .....	2,140 56
	<hr/> \$37,545 56

He also recommended a further appropriation of \$2,000 for the President's House, and also an appropriation of \$45 a month for pay of a clerk in the Business Manager's office. These recommendations were adopted.

Dr. Smith, from the Committee on Student's Welfare, made a report, which was referred to the Committee on Instruction and President Draper.

The Board then adjourned to meet at 8 o'clock a. m. Thursday.

#### THURSDAY MORNING SESSION.

The Board met pursuant to adjournment, the same members being present as on Wednesday, except Dr. Smith and Mr. Morrison.

Mr. Bullard, from the Committee on Buildings and Grounds, presented recommendations from the architects with regard to the construction of the library building, as follows:

1. Footings of exterior walls to be of dimension stone, laid in cement; footings of interior walls and of columns to be of fine hard brick, laid in cement.

2. Fire proof construction—Floors of steel framing and tile arches; ceilings and roofs of steel framing and book tile; steel trusses; ground floors of concrete; hollow tile partitions; floors over large reading room and ceiling of second story suspended from steel trusses, skylight of stained glass over rotunda, roof skylight over this.

3. Ceilings and stairways—Marble stairs, wainscot, and railings in vestibule; mosaic floors in vestibule and staircase hall; other stairs to have marble steps with ornamental iron railings.

4. Book stacks and shelves—The proposition of the Library Bureau, of Chicago, for three stories of seven feet each, and each with seven shelves, two lower division floors of Georgia marble slabs, polished on under surface, steel construction of third division floor complete, iron to have painted finish, poplar shelves with oak facing, the whole complete in place for \$8,500.00, accepted, provided the Library Bureau will put in shelving and fixtures any time within three years.

5. Roof—Vitrified Spanish tiles, laid in cement on book tiles, supported by steel framing.

6. Heating and ventilation—Hot air blast system with automatic regulation of temperature in all the rooms; air to be changed once an hour in vestibule, halls, corridors, and stack room, and five and one-half times an hour in all other rooms.

These recommendations were adopted.

Mr. Graham asked to be excused from serving as a member of the Committee on Instruction, and his request was granted. The President appointed Mr. Raymond in his place.

On recommendation of the Buildings and Grounds Committee, \$1,800.00 was appropriated for payment of architects' services.

The Committee on Instruction made the following report, which was adopted:

URBANA, ILL., March 12, 1896.

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

GENTLEMEN: The Committee on Instruction recommends the acceptance of Mr. Gunn's resignation.

It also recommends that the suggestions with regard to changes in the catalogue, made by the Faculty, be approved, and that Assistant Professor Tooke's title be Assistant Professor of Public Law and Administration, and that the word "Industrial" be dropped from the name of the department of "Industrial Art and Design," and from the title of Professor Frederick.

Also, that the request for a medal for the high school whose team shall win the inter-scholastic debate be approved, value not to exceed \$20.00.

Respectfully submitted,

LUCY L. FLOWER,  
JULIA HOLMES SMITH,  
I. S. RAYMOND,

*Committee on Instruction.*

For improving the water supply in the machine shops and Military Hall, \$225.00 was appropriated, and the Committee on Buildings and Grounds was instructed to give the matter immediate attention.

Thirty dollars was appropriated for a drinking fountain in University Hall.

For the purchase of Welshbach gas burners \$200.00 was appropriated.

Upon the recommendation of President Draper, and, on motion of Mr. McLean, the following resolution was passed:

*Resolved*, That the name of the Athletic Park be changed to that of "Illinois Field," and that the care of the same be given to the Superintendent of Buildings and Grounds, and that the sum of \$250.00 be appropriated for improvements thereat.

The Board adjourned to meet at the call of the President.

J. E. ARMSTRONG,

W. L. PILLSBURY, *Secretary.* J. E. ARMSTRONG, *President.*

## MEETING OF APRIL 22, 1896

The Board of Trustees of the University of Illinois met in special session in the University parlor, Urbana, Illinois, at 2 o'clock p. m., Wednesday, April 22, 1896, pursuant to the following call issued by the Secretary, April 15, 1896:

"By order of the President, Mr. James E. Armstrong, the Board of Trustees of the University of Illinois is called to meet in special session in the University parlor, Urbana, Illinois, at 2 o'clock p. m., Wednesday, April 22, 1896, to consider plans and specifications for the library building, and to transact such other business as may come before the Board."

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

The Committee on Buildings and Grounds asked for instructions as to the location of the Observatory.

It was ordered that the building should be erected east of the Experiment Station warehouse on the highest ground between Burrill avenue and Matthews avenue.

On motion of Mr. Bullard, \$700.00 was appropriated for the payment of the architects of the library building.

On motion of Mr. McLean, it was voted to erect the library building a little ways northwest of University Hall, the building to front northeast, as indicated by stakes recently set.

On motion of Mr. Morrison, it was voted that one-half of Mr. Clinton's salary for the year beginning September 1, 1895, be paid from University funds.

After looking over the plans, etc., for the library building, on motion of Mr. Morrison, it was voted to adopt plans as presented.

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

*Resolved*, That advertisements be published forthwith for bids for the erection of the new library building; that bids be taken for the erection of the entire building; that bids be received up to 12 o'clock noon of May 25th by the Secretary of the Board; and that the Board meet at 2 o'clock p. m. of that day and open said bids.

President Draper read a letter from Colonel Morgan expressing his regret at his not being able to be present at this meeting of the Board on account of the date being later than had been first proposed.

President Draper, on behalf of the Executive Committee of the Board of Direction of the Experiment Station, asked for an appropriation of \$143.00 from Experiment Station funds to be used in paying the balance required for repairs on the north barn. This appropriation was made on motion of Mr. Raymond.

On motion of Mr. McLean, an appropriation of \$30.00 was made to pay Mr. C. D. McLane for plans for a new barn.

The request of the Colonel Nodine Post of the G. A. R., for the use of the Chapel Decoration Day, was granted.

President Draper presented communications from Mr. A. C. Burnham, instructor in mathematics, and Mr. Alfred H. White, assistant in chemistry, asking leave of absence, in order that they might spend next year in study in Europe.

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

*Resolved*, That the Board has received with pleasure the applications of Messrs. A. C. Burnham and Alfred H. White, instructors in the University, for a year's absence for study in Europe; that while the employment of instructors is not continuous, and, therefore, they do not require a leave of absence, yet it is the purpose of the University to encourage study by its teachers in the leading institutions of the world, and in recognition of the worth of these young men the Board approves of the course which they propose to pursue and will undertake to provide positions for them upon the instructional force when they return.

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

WHEREAS, Complaint has been made that persons connected with the University have been unduly active in local political contests, and

WHEREAS, The Board thinks proper to declare its views touching such matters, although no specific facts have been alleged and there is no thought of reflecting upon any one, therefore

*Resolved*, First, that the Board recognizes the right of any person being a citizen and having a residence in either of the adjacent cities to exercise any of the rights adhering in such citizenship and residence.

Second, that in most cases there can be no question about teachers in the University acquiring the rights of citizenship here while the status of students in that regard is very uncertain. The question, however, is one which must turn upon the facts of each case and be decided by the local tribunals having jurisdiction thereof. No one should attempt to exercise the suffrage, however, whose right to do so is not clear.

Third, that the University should never be involved in any political or partisan issue. In no case should it be made the basis of operations of its organization used to promote any political end, and to avoid this, or the appearance of it, it is important that all persons connected with it should refrain from political activity.

Fourth, that upon recurring political contests the political committees be requested to refrain from sending carriages to the University to secure votes, and that the Superintendent of Buildings and Grounds be directed to deny such carriages the privileges of the grounds. In the opinion of the Board it is not consistent with the dignity of young manhood in the student body that members thereof should respond to solicitation to vote for one candidate or another made at the doors of the University. Students who have a right to vote should exercise it upon their own motion and pursuant to their own judgment.

Governor Alltgeld offered the following resolution:



WHEREAS, A proposition has been made by the Chicago College of Pharmacy to turn over to, and donate to, this University the said College of Pharmacy with all property it now has, a list of which has been furnished, on the condition that this University do take and maintain and run said College of Pharmacy as a branch or a part of this University, to be in all respects under the absolute control of the Board; it being further represented in said proposition that the debts of said College of Pharmacy do not exceed \$1,500.00, including the debt on the real estate included in said inventory, which debt of \$1,500.00 this University is to assume; and

WHEREAS, This Board is of the opinion that it will be to the interest of this University to accept this proposition; therefore

[*Resolved*, That said proposition by said College of Pharmacy be and the same is hereby accepted, and that the President of this Board and the President of the University see to carrying out and closing this matter, and that the property is turned over.

While the discussion of this resolution was pending the Board took a recess to witness the Battalion drill and inspection. When the Board had reassembled the resolution was adopted.

Mrs. Flower, from the Committee on Instruction, made a report recommending the appointment of Albert P. Carman, Ph. D., of Cedarville, N. J., Professor of Physics in the University at a salary of \$2,250.00 a year from September 1, 1896. On motion of Mr. McLean the report of the Committee was adopted.

The Committee on Instruction reported progress and asked for further time for consideration of the report of the Committee on Students' Welfare referred to it at the last meeting of the Board. The request of the Committee was granted.

The following report from the Committee on Finance was adopted:

URBANA, ILL., April 22, 1896.

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

GENTLEMEN: Your Finance Committee begs leave to recommend the adoption of the following resolution:

*Resolved*, That Charles W. Spalding, Treasurer, be, and hereby is directed to transfer ten thousand dollars, from the general fund, to the state fund for salaries, etc.

Respectfully submitted,

N. B. MORRISON,

*Chairman of Committee on Finance.*

Appropriations were made as follows:

For freight on cannon .....	\$51 91
For military scholarships.....	270 00
For band scholarships.....	135 00

A communication from the Union Manufacturing Company with regard to the contract for water was referred to Mr. Graham to investigate and report at the next meeting of the Board.

Twenty dollars was appropriated for the medal for the inter-scholastic debate (p. 234.)

The Board adjourned to meet May 25, 1896, at 2 o'clock p. m.

W. L. PILLSBURY,

*Secretary.*

JAMES E. ARMSTRONG,

*President.*

## ADJOURNED SESSION, MAY 25, 1896.

The Board of Trustees of the University of Illinois met, pursuant to adjournment, at 2 o'clock p. m., May 25, 1896, in the University parlor, Urbana. The members present were Messrs. Armstrong, Bullard, Graham, Morrison, and Raymond; absent, Governor Altgeld and Messrs. Inglis, McLean, Judy, and Morgan, and Dr. Smith and Mrs. Flower. A little later Mr. Morgan came in.

The President announced as the first business of the meeting the opening of the bids which had been received by the Secretary for the construction of the Library building.

The bids were opened in the presence of the bidders and were as follows, for construction of the building according to plans and specifications, using stone as named:

## BIDS FOR THE CONSTRUCTION OF THE LIBRARY BUILDING.

<b>Chas. A. Moses, 159 LaSalle St., Chicago—</b>	
1. Buff Bedford for trimmings and wall.....	\$142,000 00
2. Portage trimmings, Kettle River wall.....	155,630 00
3. Portage trimmings, cream buff sandstone wall.....	154,333 00
4. Cream buff trimmings, buff Bedford wall.....	149,764 00
5. Portage trimmings and wall.....	154,764 00
6. Portage for basement to and including main water table, front entrance, mosaic frieze, steps and buttress; Bedford trimmings for tower; Kettle River for rest of building.....	149,564 00
7. Kettle River basement and arches to water table and steps, buff Bedford.....	148,964 00
8. Kettle River trimmings and wall.....	143,564 00
If Golding system of fire-proofing is used throughout entire building, deduct from each proposal the sum of \$5,300.00.	
<b>Scoullar &amp; Bierwirth, 107 Washington Street, Chicago—</b>	
1. Portage red stone with Ohio speckled buff, or Ohio cream buff, or Kasota stone for the random ashler work.....	162,000 00
2. Portage and Bedford stone.....	158,000 00
3. All Bedford stone.....	148,000 00
4. All work except cut stone work.....	115,000 00
<b>John W. Evans Sons Co., Bloomington, Ill.—</b>	
1. Cream buff Amherst trimmings, Bedford buff for ashler.....	154,727 00
2. Portage for trimmings, cream buff Amherst for ashler work.....	159,500 00
3. All No. 1 Portage Entry sandstone.....	160,000 00
4. All Bedford buff.....	146,900 00
5. Portage trimmings, Joliet ashler.....	150,000 00
6. Bedford trimmings, Joliet ashler.....	144,000 00
7. Kettle River trimmings, buff Bedford ashler.....	156,900 00
8. Portage entry trimmings to main water table, Kettle River for rest of wall.....	152,000 00
If Golding system No. 1 is substituted and metal lath partitions and iron studding and beams, etc., are reduced, deduct from entire bid, \$3,865.	
<b>Everett Clark, 100 Washington Street, Chicago—</b>	
1. Kettle River sandstone for trimmings, No. 1 Bedford stone for the ashler above first story sill course.....	142,327 00
2. Portage sandstone for trimmings, cream buff Amherst for ashler.....	159,639 00
3. Portage sandstone for trimmings, Conestoga pink sandstone for ashler.....	163,805 00
4. Potsdam red sandstone for trimmings and ashler.....	174,212 00
5. Kettle River sandstone trimmings and ashler with buff Bedford stone trimmings for inside of tower.....	141,479 00
6. Cream buff Amherst stone for trimmings, and No. 1 buff Amherst stone for ashler.....	151,686 00
If Golding system No. 1 of fire-proofing for floor, and tile partitions, metal lathing and iron studding, and steel construction made to conform to diagrams and weights, deduct \$4,000.	
<b>Guaranty Construction Co., Chicago—</b>	
1. Blue and buff Bedford stone.....	149,721 00
2. Buff Bedford and Kettle River stone.....	152,000 00
3. East Tennessee marble, dark and light pink, as per sample.....	165,000 00
4. Buff Bedford and Joliet limestone.....	145,600 00
5. Portage and Joliet limestone.....	148,000 00
6. Portage and buff Amherst.....	142,600 00

*Bids for Construction—Continued.*

Jonathan Clark & Sons Co., 2 and 4 Sherman Street, Chicago—	
1. No. 1 Portage red sandstone for trimmings, cream buff Amherst for ashler .....	\$165,730 00
2. Cream buff Amherst for trimmings, No. 1 buff Bedford for ashler .....	157,316 00
3. Portage red sandstone for trimmings, Conestoga pink sandstone for ashler .....	169,074 00
4. Potsdam red sandstone .....	181,143 00
5. Kettle River sandstone for trimmings, buff Bedford for ashler .....	138,814 00
F. W. Menke, Quincy, Ill.—	
1. Buff Bedford stone .....	146,000 00
2. Portage trimmings, buff Bedford wall .....	147,500 00
3. Portage trimmings, and buff Cleveland stone .....	148,900 00
Richard Shinnick, 304 North 8th St., St. Louis—	
1. Portage basement, including entrance, Kettle River above .....	158,270 00
2. Portage trimmings, Kettle River wall .....	164,384 00
3. Portage trimmings, Cream buff Amherst wall .....	163,000 00
4. Kettle River basement, buff Bedford above .....	157,000 00
5. Cream buff Amherst trimmings, Portage wall .....	164,000 00
6. Buff Bedford .....	151,000 00
Valentine Jobst, 517 North Adams St., Peoria, Ill.—	
1. Kettle River sandstone .....	138,950 00
2. Portage Entry trimmings, Kettle River ashler .....	145,500 00
3. Arcadian trimmings, Kettle River ashler .....	143,400 00
4. Rockville granite to first story sill course, Kettle River above .....	147,450 00
5. Buff Bedford stone .....	136,000 00
6. Portage trimmings and buff Bedford Ashler .....	137,500 00
7. Portage trimmings and buff Amherst and Cleveland .....	139,000 00
8. Portage .....	152,000 00
9. Buff Bedford trimmings, Joliet ashler .....	137,500 00
10. Portage trimmings and Joliet ashler .....	143,000 00
11. Kettle River trimmings and buff Bedford Ashler .....	149,900 00
12. Potsdam red sandstone .....	163,300 00
If expanded metal system of fire-proofing instead of tile system as specified, deduct \$2,000.00. Time to complete 310 working days, weather permitting.	
H. M. R. Construction Co., 79 Dearborn St., Chicago—	
1. Buff Bedford stone .....	137,000 00
2. Kettle River sandstone .....	135,000 00
3. Ashler work buff Bedford trimmings, Kettle River sandstone .....	135,700 00
4. Basement from grade to first story sill course, including front entrance arch, Kettle River sandstone: entire portion above buff Bedford .....	143,000 00
5. Basement from grade to first story sill course, including front entrance arch, Portage sandstone, all above, Kettle River sandstone .....	143,000 00
6. Ashler work Kettle river sandstone, trimmings Portage sandstone .....	150,000 00
7. Ashler work cream buff Amherst, trimmings Portage .....	149,000 00
8. Ashler work buff Bedford, trimmings cream buff Amherst .....	144,000 00
9. Portage stone .....	150,000 00
10. Cream buff Amherst .....	144,000 00
Deduct \$4,000.00 in case expanded metal system of fire-proofing is used instead of tile fire-proofing.	

After the bidders had retired the proposals were discussed at considerable length, and it appearing that to use stone in two colors which would be satisfactory, as had been proposed, would bring the cost of the building above the money available, it was voted to refer the proposals to the architects with instructions that they should advise the Board, as soon as possible, as to the best course to pursue under existing conditions.

## CHICAGO COLLEGE OF PHARMACY.

President Draper reported for the committee appointed to attend to the transfer of the Chicago College of Pharmacy to the University, that the committee, accompanied by the Business Manager had met the Board of Trustees of the Chicago College of Pharmacy on the afternoon of Saturday, May 2, 1896.

In the investigation of the finances of the institution it was developed that certain expenses, including the rent of the buildings, the salaries of the Actuary and janitor for the month of April, as well as some other small items, aggregating some \$800.00, were yet unpaid. The Trustees of the College explained that it was customary to borrow money during the vacation to meet running expenses, which was repaid from tuition fees in the fall. The committee, however, declined to accept the indebtedness, but promised to submit the matter to the Board of Trustees of the University. The Trustees of the College of Pharmacy agreed to pay the same if the Board of Trustees of the University declined to do so.

Thereupon, deeds of the real estate belonging to the College of Pharmacy and transfer of all personal property of the institution, were passed to the committee and accepted by them in behalf of the University. The committee recommended that the Board of Trustees of the University assume the indebtedness referred to and that their acts in accepting the property should be confirmed.

The following resolutions were adopted:

*Resolved*, That the action of the special committee appointed by this Board at the last meeting to attend to the details touching the transfer of the Chicago College of Pharmacy to the University, is hereby approved, and such transfer is hereby ratified and confirmed.

*Resolved*, That the Business Manager of the University be, and he is hereby instructed to settle all claims accruing in the month of April for expenses of such College of Pharmacy, and that he shall make provisions in his University estimates for other running expenses, and that he take general charge of the business affairs of the institution.

*Resolved*, That the Chicago College of Pharmacy be hereafter styled The School of Pharmacy of the University of Illinois, but that the original name be continued for some time upon the signs, stationery, and publications thereof.

*Resolved*, That Mr. W. B. Day be continued for the time being as Actuary, at a salary of \$75 per month, and that Mr. H. Eulert be continued as janitor of the building at \$50 per month.

*Resolved*, That Mr. Frederick M. Goodman be appointed as Professor of Materia Medica and Botany and Director of the Microscopic Laboratory; that S. N. Hallberg be appointed Professor of Pharmacy and Director of the Dispensing Laboratory; that William A. Puckner be appointed Professor of Physics and Chemistry and Director of the Chemical Laboratory; and that Frank S. Hereth be appointed Director of the Pharmaceutical Laboratory; that the said professors be paid the sum of \$4,500 jointly for their services during the next year; and should the receipts of the said school from tuition fees exceeds \$12,000 in the course of the year they shall be paid jointly one-half of the excess over \$12,000, provided that they shall employ and pay such assistants as in the judgment of the President of the University shall be necessary to carry on properly the work of the school; but the tuition fees of one student may be remitted for services rendered to the faculty. No part of the pay of said professors shall be due and payable, however, except out of the tuition fees and after the same have been received by said school.

*Resolved*, That the Chairman and Secretary of the Board of Trustees be and they are hereby authorized to execute a lease with the owners of the building in which the School of Pharmacy is maintained at 465-67 State street, Chicago, for the term of one year, from the first of May last, at a monthly rental of \$300.

*Resolved*, That all the administrative officers of the University be and they are hereby charged with the administration of the affairs of the School of Pharmacy the same as of all other departments of the University, and that they make such local arrangements at the School as may seem necessary for the proper conduct of its affairs.

President Draper presented Professor Snyder's resignation of the chair of the German language and literature. This resignation was accepted by the adoption of the following resolutions:

WHEREAS, Professor Edward Snyder, of the German department, who has been connected with the University from the beginning, has felt impelled to tender his resignation because of ill health and the necessity of residence in a milder or more uniform climate;

*Resolved*, That the sound scholarship and amiable qualities of Professor Snyder manifested here during the long period of twenty-eight years, have gained him the entire respect and affectionate regard of all connected with the University; that this Board of Trustees deeply regrets the necessity of his resignation and accepts the same only because it seems imperatively to his advantage to do so; that it cannot do so except with an expression of its appreciation of the great services he has rendered the University and the sincere hope that rest in a more favorable climate will bring him renewed health and that his life may yet be prolonged through many happy years.

*Resolved*, That the resignation be accepted to take effect January 1, 1897; that Professor Snyder be given leave of absence from the close of the current term, and that he be continued upon the corps of instruction as Professor of the German Language and Literature, *emeritus*.

Upon recommendation of President Draper, Lewis Addison Rhoades, PH.D., was appointed Assistant Professor of the German Language and Literature, at a salary of \$1,500 a year, the appointment to take effect September 9, 1896.

On motion of Mr. Graham, it was voted that when the Board adjourned at the close of the afternoon session, it should adjourn to meet at the Beardsley, in Champaign, at 8 o'clock p. m.

#### LIBRARY BUILDING.

Professor Ricker stated that in the opinion of the architects of the library building the best course for the Board to take, in view of the results of the bidding, was to use but one stone for the exterior, in the construction of the building. The recommendation was adopted.

On motion of Mr. Bullard, it was voted to accept the second proposition of the H. M. R. Construction Co., of Chicago, to-wit:

"To erect the proposed library building for the University of Illinois, the building to be completed in accordance with plans and specifications, as presented by Messrs. Ricker & White, architects, and entire exterior of the building to be finished in Kettle River sandstone for the sum of one hundred and thirty-five thousand dollars."

It was also voted to accept the proposition of the said H. M. R. Construction Co., to reduce the amount above named by four thou-

sand dollars for permission to use the expanded metal system of fire-proofing instead of tile fire-proofing, as described in the plans and specifications.

The bill of S. S. Beman, architect of the President's House, was referred to Mr. Morgan, for report at the next meeting of the Board.

Mr. Graham, to whom was referred a communication from the Union Manufacturing Co., with regard to the contract for water, reported that he had had a conference with the officers of the company and that they had agreed to allow matters to run as at present until the expiration of the existing contract.

On motion of Mr. Bullard, the Secretary was instructed to return all checks deposited with the proposals for the erection of the library building, except those deposited by Mr. Jobst and the H. M. R. Construction Co.

The following communication was received from Messrs. Ricker & White:

URBANA, ILL., May 25, 1896.

*To the President and the Board of Trustees, University of Illinois.*

GENTLEMEN:—In accordance with instructions received from your Building Committee, we have accepted the bid of the B. F. Sturtevant Company for the heating apparatus for the new University Library at \$4,952, complete. This proposal was, in our opinion, the lowest and best of those received from the five competitors from whom bids were asked and who are the leading competitors for this kind of work.

The system proposed by this company has been carried out in the building and the necessary ducts and spaces provided which are required therefor.

In accordance with instructions received from the Building Committee we have accepted the bid of George B. Meleney, Chicago Manager of the Library Bureau, for the book stacks, glass floors, wood shelves, etc., at \$8,500, complete for three tiers of the book stack room of the new University library. This bid was the lowest one received from three competitors, leading manufacturers of these fixtures, and we believe that the work will be done to your entire satisfaction.

Very respectfully submitted,

RICKER & WHITE,

*Architects of Library Building.*

The action of the architects in accepting these bids for book stacks, etc, and for heating apparatus, was confirmed.

Upon recommendation of the Business Manager, appropriations were made as follows:

Board expense.....	.....	\$100 00
President's House—		
Balance on contract.....	\$59 30	
Heating contract.....	152 68	
Extras.....	401 05	
Grading.....	52 05	
Brick, cement, etc.....	15 55	
		680 63
Salary of G. P. Clinton, March, April, and May, 1896.....	\$250 00	
Salary of the gardener, April and May.....	100 00	
		350 00

Chicago College of Pharmacy—		
Bills due May 1, 1896, as per list.....	\$524 67	
May salary of Actuary.....	75 00	
May salary of janitor.....	50 00	
May rent of building.....	300 00	
Repairs of building, etc.....	208 50	
Advertising and catalogue.....	1,000 00	
Miscellaneous.....	100 00	
		\$2,258 17
		\$3,388 80

The Board adjourned to meet at the Beardsley at 8 o'clock p. m.

### EVENING SESSION.

The Board met pursuant to adjournment, the same members being present as in the afternoon.

President Draper submitted the following:

#### SALARIES AND APPOINTMENTS.

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

I respectfully recommend the following, touching the corps of instruction of the University:

1. That the Salary of Associate Professor E. B. Greene be \$1,700.
2. That the salary of Assistant Professor T. A. Clark be \$1,500.
3. That the salary of Assistant Professor Bernard Victor Swenson be \$1,200.
4. That the salary of Assistant Professor William Esty be \$1,200.
5. That the salary of Assistant Professor George D. Fairfield be \$1,300, and that he have charge of the department of Romance Languages during the ensuing year.
6. That the salary of Assistant Professor Charles W. Tooke be \$1,200.
7. That the salary of Assistant Professor Walter Howe Jones be \$900, and one-half of any excess over that amount which may be paid for lessons upon the piano.
8. That the salary of Miss Adeline Whitney Rowley, Instructor in Vocal Music, be \$700, and one-half of any excess over that amount which may be paid for instruction which she may give in vocal music.
9. That the salary of Assistant Professor Wm. D. Pence be \$1,500.
10. That the salary of Assistant Professor George D. Hammond be \$1,200.
11. That Mr. Frank Smith, Instructor in Zoölogy, be appointed Assistant Professor of Zoölogy at the same salary he has heretofore received, viz., \$1,200.
12. That the salary of Miss Ella H. Morrison, Director of Physical Culture for Women, be \$1,000.
13. That the following instructors and assistants be appointed for ten months from September 1, 1896, at the monthly salary set opposite their names, viz.:

C. D. McLane.....	\$110 00
J. D. Phillips.....	85 00
R. P. Smith.....	120 00
Helen E. Butterfield.....	75 00
R. A. Wood.....	80 00
Oscar Quick.....	75 00
G. A. Goodenough.....	75 00
E. J. Lake.....	60 00
Chas. F. Hottes.....	60 00
Geo. A. Huff.....	100 00
M. S. Ketchum.....	70 00
J. G. Mosier.....	70 00
R. C. Vial.....	70 00
Paul Chipman.....	70 00

14. That C. B. Clark, foreman in the machine shop, be reappointed for ten months from the first of September, 1896, at \$85 per month; that A. R. Curtiss, foreman in the wood shop, be reappointed for ten months from September 1, 1896, at \$85 per month; that Henry Jones be reappointed foreman in the smith shop for ten months from September 1, 1896, at \$60 per month; and that J. H. Wilson, foreman in the moulding shop, be reappointed for ten months from September 1, 1896, at a salary of \$50 per month.

15. That the teachers in the Preparatory School be reappointed upon the same terms as last year.

16. That William L. Steele be appointed to a special scholarship in music for the ensuing year, and that he be paid the sum of \$300.

17. That Geo. F. Anderson be appointed special instructor in Military Science for ten months from September 1, 1896, at \$10 per month.

18. That Lewis A. Rhoades be appointed Assistant Professor of German at a salary of \$1,500, and that he have charge of the German department.

19. That Geo. W. Myers, Associate Professor of Mathematics, who has been absent in Europe the last two years on leave, be given the title of Associate Professor of Astronomy and Mathematics and that his salary be \$1,750.

Respectfully submitted,

A. S. DRAPER,

*President of the University of Illinois.*

The foregoing recommendations were adopted as presented.

Mr. B. M. Duggar's resignation of the position of botanical assistant in the Laboratory of Natural History was presented and accepted to take effect June 1, 1896.

The Board adjourned.

JAMES E. ARMSTRONG,

W. L. PILLSBURY,

*Secretary.*

*President.*



## MEETING OF JUNE 9, 1896.

The Board of Trustees of the University of Illinois met in the University Parlor, Urbana, Illinois, at 3 o'clock p. m., Tuesday, June 9, 1896.

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

It was suggested by President Armstrong that at the adjourned meeting of the Board held May 25th there had been but six members of the Board present, and that it would be necessary to take some action with reference to the transactions of that meeting before they would be strictly legal and binding. It was thereupon voted that the several acts of the meeting of May 25th stand confirmed by the Board.

The minutes of the meetings of March 10, 1896, April 22, 1896, and May 25, 1896, as presented by the Secretary, were approved.

President Draper stated that the Faculty of the University recommended that authority be given to confer, on commencement day, degrees as follows, and the authority was granted.

## DEGREES.

## COLLEGE OF LITERATURE AND ARTS.

Amelia Darling Alpinier,  
Nellie Besore,  
James Woodbury Blakeslee,  
Cora Mae Cairns,  
David Hobart Carnahan,  
Mary Maude Cole,  
Charles Hunter Garnett,  
John J Hindman,  
Lewis William Johnson,  
Louis Maxwell Kent,  
Aureka Belle Kiler,  
Sophia Nott Leal,  
John Madison Martin,

## Degree of Bachelor of Arts.

Althea S. Mather.  
Minnie Rose Moore,  
James William Myers,  
Isabelle Noble,  
Mary Elizabeth Noble,  
William Noble,  
Francis Marion Phillippi,  
Robert Knight Porter,  
George Harvey Scott,  
Charles Roy Vickery,  
Rebecca Gaskin Wharton,  
Robert Williams,  
Wilber Hoyt Wright.

COLLEGE OF ENGINEERING.

Degree of Bachelor of Science.

*Course in Architecture.*

Melville Clark Chatten,  
Herbert John Green,  
Henry Gustav Hottes,<sup>1</sup>  
George Charles Liese,

George Washington Ludwick,  
Robert Payton Manard,  
Sherman Smith,  
William LaBarthe Steele.

*Course in Architectural Engineering.*

James George Beach,

John C Sample.

*Course in Civil Engineering.*

Henry Jackson Burt,  
Henry Clarence Estee,  
Frederick William Honens,  
Richard Bird Ketchum,

Samuel Theodore Morse,  
Oscar Emil Strehlow,  
Fred Lawrence Thompson,  
Charles Edwin VanOrstand.

*Course in Electrical Engineering.*

Edward Langford Adams,  
Walter Gilbert Campbell,  
Paul Henry Cooper,  
Warren Edward Durstine,  
Frank Milton Everett,  
Howard Hall Haskell,

Henry Curtis Marble,  
Jediddiah D Morse,  
John Edward Pfeffer,  
John Clark Shea,  
Alexander Martin Simons,  
Percy Allyn Stone.

*Course in Mechanical Engineering.*

Joshua Franklin Begole,  
Frank Hopkins Green,  
Homer Roberts Linn,  
James Harvey McKee,

John Alexander McRea,  
George Edward Row,  
Don Sweney,  
Theodore Weinshank,  
Myron Edwin Whithman.

COLLEGE OF SCIENCE.

Degree of Bachelor of Science.

*Course in Chemistry.*

Georgia E Bennett,  
William Charles Brenke,  
Florence Besançon Clark,

Frank Henry Serafino Gazzolo,  
Harry Keeler,  
Charles Jacob Maxwell,  
Harry J Sauders.

*Course in Mathematics.*

Edward Lawrence Milne.

*Course in Natural Science.*

Rachel Ellen Folger,  
Bertha VanHoesen Forbes,  
George David Hubbard,

Fred Thales Huston,  
Matthew Aaron Reasoner,  
Solon Marks White.

MASTERS' DEGREES, AS FOLLOWS:

John Henry Meneely, A.B., Austin College, the degree of A.M.

Francis Edward King, B.L., Univ. of Ill., the degree of M.L.

Marion Thompson, B.L., Univ. of Ill., the degree of M.L.

Earl Vanhise Capps, B.S., Univ. of Ill., the degree of Electrical Engineer.

President Draper presented a request from Mr. L. A. McLean, of Urbana, asking that permission be given for the Masonic order to march on foot through the University grounds to the cemetery on the afternoon of June 10th. The request was granted.

Permission was also given the Knights of Pythias to use Military Hall for their exercises on Sunday, June 14th.

The recommendations of President Draper, contained in the following paper, were adopted:

#### SALARIES AND APPOINTMENTS.

*To the Board of Trustees.*

I make the following recommendations touching the instructional force:

1. That James McLaren White be promoted from the position of assistant professor of architecture to that of associate professor of architecture, without change in salary.

2. That the salary of Harry S. Grindley, assistant professor of chemistry, be \$1,200.

That the salary of James D. Phillips, instructor in general engineering drawing, be \$900.

4. That the salary of George A. Goodenough, instructor in mechanical engineering, be \$800.

5. That Arthur S. Patterson be appointed assistant in French for ten months, from the first of September next, at \$50 per month. This appointment, and the one following, are to make provision for the work of Professor Piatt during his absence next year.

6. That D. Hobart Carnahan be appointed assistant in French for ten months, from September first next, at a salary of \$40 per month.

7. That Ernest C. Klipstein be appointed instructor in architecture for ten months, from September first next, at a salary of \$80 per month.

8. That authority be given the President to appoint an instructor in chemistry, at a salary of \$70 per month, from September first next, to take the place of Mr. Alfred H. White, who is to be absent in Europe during the next year. And, also, if exigencies require it, that another instructor in chemistry may be appointed for a part or the whole of next year, at a compensation not to exceed \$60 per month.

9. That authority be given the President to appoint an instructor in mathematics, at the opening of the fall term, to take the place of Mr. Alton C. Burnham, who is to be absent in Europe during next year, at a salary not to exceed \$70 per month for ten months, from the first of September next.

10. That Cyrus D. McLane be promoted to the position of assistant professor of architectural construction, without change of salary.

11. That the title of Edward J. Lake be instructor in free hand drawing, instead of assistant in art and design, without change of salary.

12. That the title of Miss Ella H. Morrison be Director of Physical Training for women instead of Director of Physical Culture for Women.

13. That the deans of the colleges be re-elected, as follows: Thomas J. Burrill, Dean of the General Faculty and of the Graduate School; N. Clifford Ricker, Dean of the College of Engineering; Stephen A. Forbes, Dean of the College of Science; David Kinley, Dean of the College of Literature and Arts; Eugene Davenport, Dean of the College of Agriculture.

Very truly yours,

A. S. DRAPER,  
*President.*

Upon recommendation of the Council of Administration, presented by President Draper, the following appointments to fellowships were made:

In the College of Literature and Arts—

Mary Maude Cole,

Charles Hunter Garnett,

In the College of Engineering—

James Harry McKee,

Walter Gilbert Campbell.

In the College of Science—

George David Hubbard,

Edward Lawrence Milne.

The following communication from President Draper, with regard to the agricultural departments of the University, was referred to the Farm Committee. Later in the session the paper was returned by the Committee, and, after discussion, was adopted.

#### AGRICULTURAL DEPARTMENT AND EXPERIMENT STATION.

*To the Board of Trustees.*

During the past year I have given such attention and thought as I have been able to the agricultural interests which we are endeavoring to promote in the University. The situation at the farm has been somewhat improved, and yet it is far from satisfactory. I think a good beginning has been made, but little more than that can be said. There is serious need of a more perfect system of management. I am not certain but that this is contingent upon a somewhat radical modification of the plan of organization. When I have advised with the Dean of the College of Agriculture about matters which I supposed were wholly subject to his direction, he has claimed that these matters were in charge of the Agricultural Experiment Station, and therefore under the direction of the Board of Direction of the Experiment Station, and that he had no more to do with them than have professors in other departments of the University who have no relation whatever to the work of the Station. Technically the plan of organization for the management of the Experiment Station, adopted by the Board of Trustees on the 21st of March, 1888, affords ground for this claim. It seems to me that it should be removed. Our plan of managing the affairs of the Experiment Station, through the Board of Direction, is at variance with that of practically all the leading Experiment Stations of the country. I think, also, that it is at variance with sound principles, because it devolves executive duties upon the Board of Direction which can only be properly discharged by a single individual who has full authority and is charged with entire responsibility.

I am exceedingly anxious that not only should there be no hindrance in the way of the fullest and most rapid development of this work, but that everything which we can do to aid such development shall be done, and I recommend:

1. That the position of Director of the Experiment Station be created and that the Dean of the College of Agriculture shall fill such position *ex officio*; that such Director shall have immediate charge of all property belonging to the Agricultural Experiment Station; that he shall be the executive officer of such Station, vested with full authority and charged with entire responsibility for attaining the purposes of the law and for carrying out the directions of the Board of Trustees or of the Advisory Board concerning said Station; that he shall have general supervision of the work of all its departments, shall employ such assistance and laborers as he may be authorized to do by action of the Board of Trustees; that he shall keep the President of the University generally advised of all matters appertaining to the work of the Station, and shall make formal written reports at the first of each month covering the work of the Station, and that he shall act under the direction of the President in the absence of special directions from the Board of Trustees or the Advisory Board.

2. That the present Board of Direction be continued and its name changed to that of the Experiment Station Advisory Board, and that it be directed to recognize the Director above provided for as the executive officer of all Station affairs, charged with the duties above set forth.

3. That the position of Assistant Professor of Agricultural Physics be created, at a salary of \$1,200.00 per year; that the position of Instructor in Dairying be created at a salary of \$800.00 per year; that the Executive Committee be authorized to fill these positions, if practicable to do so, before the opening of the fall term.

4. That the salary of the Professor of Animal Husbandry, that of the Assistant Professor of Soils and Crops, and those of the Assistant Horticulturist (the salary hereafter to be \$1,000.00 per year) and the Instructor in Dairying be equally divided between the University and the Agricultural Experiment Station, and that the salary of the Professor of Veterinary Science be equally divided between the University, the Agricultural Experiment Station, and the Vaccine Laboratory account.

5. That the Agricultural Experiment Station staff shall be comprised of the following officials, who shall be appointed by the Board of Trustees only:

Director,	Assistant in charge of Dairy Experi-
Agriculturist,	ments,
Assistant Agriculturist,	Entomologist,
Botanist,	Horticulturist,
Assistant Botanist,	Assistant Horticulturist,
Chemist,	Veterinarian.

It will be remembered that by previous action of the Board the book accounts of the Experiment Station and all of the business transactions thereof have been transferred to the care of the regular administrative officers of the University. If the foregoing plan should be adopted, all of the business of the Experiment Station will really be controlled directly by the Board of Trustees through the regular administrative officers of the University.

Very truly yours,

A. S. DRAPER,  
*President.*

President Draper presented the following paper concerning the music department. This was referred to the Committee on Instruction, and later during the session the Committee reported, recommending the approval of the recommendations, and the report of the Committee was adopted.

#### MUSIC DEPARTMENT.

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

The Music Department established a year ago has been as successful as could have been expected during the first year. The work of Professor Jones, from an artistic point of view, has been highly satisfactory. Miss Elinor Edwina Ellsworth, who was employed as instructor in vocal music at the beginning of the year, was obliged to resign on account of ill-health, at the end of the fall term, and her place was filled by the appointment of Miss Adeline Whitney Rowley. Miss Rowley is a capable vocalist and a conscientious teacher. The work of these persons has stimulated the musical interests of the University to an extent which is unprecedented. The number of pupils these teachers have had has not been large, but their tuition fees would more than half pay the salaries of the instructors.

Mr. W. L. Steele, a student of the senior class, who was given a special scholarship in music last year has trained the military band to a point of proficiency never before reached in the University, which has made it a most important feature in our University life. Unfortunately he has determined to engage in other employment next year and his services are not to be available to us.

The pianos owned by the University, with the exception of the new one purchased last year, are in deplorable condition and nearly or quite beyond repair. We shall doubtless all agree as to the importance of strongly sustaining this new department. The Chickering piano in the chapel is possibly worthy of repair. Such investigations as I have been able to make indicate that by the expenditure of \$100 to \$150 it may be put in condition to be of service to us for several years. There should be a good piano in the room of the instructor in vocal music, and there should be a good, serviceable piano in readiness continuously for student practice.

From the first I have thought it highly important to have a teacher of the violin and other stringed instruments in the department. In view of the fact that Mr. Steele is to retire it has occurred to me that it may be practicable to find a man who would meet this need and at the same time lead the band and assist in the musical work generally, so far as he could do so.

Under all these circumstances, I recommend:

1. That the sum of \$1,000 be appropriated for repairing pianos and the purchase of new ones, and that authority be given to make any exchange of instruments upon terms which may seem advantageous.

2. That the President be authorized to employ an additional instructor in the Music Department, for the purpose mentioned, at a salary of not to exceed \$800 per year.

Very truly yours,

A. S. DRAPER,

*President.*

Dr. Smith and the Business Manager were appointed to effect any exchanges or purchases of instruments.

The following recommendation, made by President Draper, was adopted on motion of Mr. Raymond:

#### VISITOR OF HIGH SCHOOLS.

*To the Board of Trustees.*

The time has come when it seems imperatively necessary that the University should employ a man whose special duty it shall be to visit high schools with a view to placing them, or continuing them, upon the accredited list of the University. The work has heretofore been done by members of the faculty and always with more or less inconvenience to their regular University work, as well as without the best results upon the field. When the examinations of high schools are made by different members of the Faculty, of course, there is an inevitable variety of judgment exercised in determining their status. I am confident that it would be very greatly to the advantage of University work, that it would promote the best relations between the University and the high schools, and that it would have a stimulating and helpful effect upon the high school work throughout the state, if we could have the right man, whose time should be exclusively devoted to that important interest. I therefor recommend that authority be given the President to employ such a man for the ensuing year at a salary not to exceed \$1,200.00.

Very truly yours,

A. S. DRAPER,

*President.*

Appointments of the staff of the State Laboratory of Natural History were made as follows upon recommendation of the Director, Professor S. A. Forbes, the appointment to date from July 1, 1896:

Charles A. Hart, Systematic Entomologist and Curator of Collections, 12 months at	\$62 50
Frank Smith, Assistant Zoölogist, 2 months at .....	100 00
Mary J. Snyder, Secretary, 12 months at .....	62 50
H. C. Forbes, Librarian and Business Agent, 12 months at .....	83 33
Lydia M. Hart, at the following rates per hour of service rendered: Chart Drawing 25c, Outline Drawing 30c, Shaded Drawing 35c .....	
W. A. Snow, Assistant Entomologist, 11 months at .....	75 00

C. A. Kofoid, salary \$100 a month, and A. Hempel, salary \$60 a month, were to continue as assistants of the State Laboratory in charge of the Biological Station, so long as funds available for the maintenance of the Station will permit.

Mr. Graham offered the following resolution:

*Resolved*, That the purchase of coal and contracting for the same for the University and for the School of Pharmacy, at Chicago, be referred to Mr. Morrison with power to act.

On motion of Mr. Bullard the resolution was amended by inserting after the words "Mr. Morrison" the words "and the Business Manager."

The resolution as amended prevailed.

The Board then adjourned to meet at 8 o'clock p. m.

#### EVENING SESSION.

The Committee on Buildings and Grounds recommended that the water main crossing the site of the library building be changed so as to pass around the building on the south, and that the work be put in charge of Professor Talbot.

The Committee also recommended that the top soil taken out in excavating for the building be reserved for grading around the building, and that the rest of the dirt be taken from the site as fast as taken out, and used to fill in around the President's House and also to fill in the low ground around Natural History Hall.

The recommendations were adopted.

The Committee recommended that the architects be paid on account of services rendered, \$1,111.30, and the payment was ordered.

The Committee on Buildings and Grounds reported, informally, that the work was going on upon the Observatory, and that the contracts for the building, and for instruments and appliances had been kept well within the appropriation.

Mr. Raymond, from the Farm Committee, said that it was desirable to make arrangements to lease the south farm. He stated that the present tenant, Mr. Hedges, was desirous of re-leasing the farm at a rental of \$2,000 a year for three years.

The Farm Committee was authorized to make the lease.

President Draper presented the following report from the Board of Direction of the Agricultural Experiment Station and the report was adopted, and its recommendations approved. The vouchers were referred to the finance Committee.

#### AGRICULTURAL EXPERIMENT STATION REPORT.

URBANA, ILL., June 9, 1896.

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

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

*Paper A* is a list of warrants drawn, Nos. 169 to 247 inclusive, for the quarter ending March 31, 1896, and is accompanied with vouchers for the same for audit.

*Paper B* is a statement of expenditures for the quarter ending March 31, 1896.

*Paper C* is a statement of appropriations, expenditures, and balances for the quarter ending June 30, 1896.

*Paper D* is a statement of appropriations asked for the next quarter.

## PAPER B—EXPENDITURES, QUARTER ENDING MARCH 31, 1896.

Board expense.....	\$22 70
Building and repairs.....	18 85
Books and publications.....	38 22
Botanical apparatus and supplies.....	35 95
Bulletins.....	435 53
Chemical apparatus and supplies.....	49 20
Fuel and lights.....	59 12
Incidentals.....	22 50
Printing, stationery, and postage.....	24 00
Salaries.....	1,672 50
Seeds and trees.....	5 40
Tools and supplies.....	100 16
Wages and teams.....	1,008 91
Southern Illinois experiments.....	71 66
Total.....	\$3,564 50

## PAPER C—STATEMENT OF APPROPRIATIONS, EXPENDITURES, AND BALANCES FOR QUARTER ENDING JUNE 30, 1896.

	Appropriations.	Expended.	Balance.
Board expense.....	\$40 00		\$40 00
Books and publications.....	25 00		25 00
Botanical apparatus and supplies.....	10 00		10 00
Bulletins.....	500 00		500 00
Chemical apparatus and supplies.....	40 00	\$24 84	15 16
Fuel and lights.....	80 00		80 00
Incidentals.....	25 00	3 60	21 40
Printing, stationery, and postage.....	25 00		25 00
Salaries.....	1,875 00	1,081 64	793 36
Seeds and trees.....	75 00	41 06	33 94
Tools and supplies.....	300 00	172 17	127 83
Wages.....	1,250 00	614 49	635 51
Southern Illinois experiments.....	150 00	74 38	75 62
Total.....	\$4,395 00	\$2,012 18	\$2,382 82

## PAPER D—ESTIMATES, QUARTER ENDING SEPTEMBER 30, 1896.

<i>General Fund.</i>		
Board expense.....		\$40 00
Books and publications.....		50 00
Botanical apparatus and supplies.....		85 60
Buildings and repairs.....		25 00
Bulletins.....		250 00
Chemical apparatus and supplies.....		340 00
Fuel and lights.....		30 00
Incidentals.....		25 00
Printing, stationery, and postage.....		25 00
Salaries.....		1,450 00
Seeds and trees.....		25 00
Tools and supplies.....		175 00
Wages.....		1,200 00
Southern Illinois experiments.....		100 00
Total.....		\$3,820 00



PAPER D—ESTIMATES—*Continued.*

<i>Farm Fund.</i>	
Pigs.....	\$30 00
Sheep.....	100 00
Tools and supplies.....	250 00
Wages.....	400 00
Total.....	\$780 00

The Board of Trustees is asked to assign funds of the Experiment Station according to estimates made in *Paper D*, and also to authorize the President and Secretary of the Board of Direction to expend, as the best interests of the Station may require, any unexpended balances of the United States fund.

Respectfully submitted,

T. J. BURRILL,

*President Board of Direction.*

An appropriation of \$45.00 was made for the purchase of the bust of Senator Morrill.

The Board adjourned to meet at 2 o'clock.

## SESSION OF WEDNESDAY AFTERNOON.

The following resolutions were adopted:

## FLAG LAW INDICTMENTS.

WHEREAS, The Trustees of the University of Illinois have been indicted by the grand jury of Champaign county, for an alleged failure to comply with the letter of the laws touching the display of flags over public buildings, and

WHEREAS, the State's Attorney of this county has caused a verbal message to be presented to the Board through the President of the University, substantially to the effect that said indictments will be quashed, provided the Board will put a flag on one of the University buildings, and

WHEREAS, The Deputy Sheriff of this county has just communicated to the Board a statement that he is instructed by the State's Attorney to serve the process of the court upon the members of the Board unless said proposition is accepted, and

WHEREAS, The Trustees are in favor of the central thought of the flag law and intend to inculcate an observance of all laws, rationally construed, upon all, and particularly upon the students of the University; therefore

*Resolved*, That in the judgment of this Board the spirit and intent of the legislature, expressed in said flag laws, have not only been fully complied with, and were observed even before the laws were enacted, but have been complied with in the most exact manner practicable, by displaying a flag, on a tall pole in the midst of the University campus, so that it has floated above all the buildings on all school days, by observing great care that it shall never touch the ground or come in contact with any other thing, and by doing all things calculated to inspire respect and love for the flag on the part of all connected with the University.

*Resolved*, That the display of the flag on one University building is, in our judgment, not so near a literal compliance with the law as the course long pursued by the Board, and that we recognize no right on the part of the State's Attorney or Sheriff to propose terms of settlement of an indictment out of court.

The Business Manager presented his report:

THE BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, June 9, 1896.

*James E. Armstrong, 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 May 31, 1896.

*Paper A* is a statement of the current appropriations for that time.

*Paper B* gives the condition of the state appropriations May 31, 1896.

*Paper C* is the same for the United States appropriation.

PAPER A—CURRENT APPROPRIATIONS.

1895-1897.	Appropriated.	Expended.	Balance.
Board expenses.....	\$500 00	\$491 65	\$8 35
Salaries for instruction { Current.....	24,685 00	41 10	91 74
and for President { U. S. Fund.....		27 02	
State.....		24,525 14	
Salaries for services { Current.....	3,635 00	184 93	98 95
State.....		3,351 12	
Buildings and grounds.....	250 00	215 77	34 23
Fuel and lights.....	1,500 00	1,292 58	207 42
Stationery and printing.....	600 00	389 34	210 66
Preparatory School—Salaries.....	1,365 00	1,365 00	.....
Repair shop.....	300 00	167 15	132 85
Mechanical department.....	600 00	591 30	8 70
Departments.....	151 91	125 35	26 56
Laboratories.....	650 00	650 00	.....
Library and apparatus.....	50 00	25 70	24 30
Incidentals.....	400 00	299 30	100 70
<i>Sundries.</i>			
Water supply.....	125 00	125 00	.....
Heating apparatus.....	200 00	130 76	69 24
Furniture and fixtures.....	200 00	53 27	146 73
Gymnasium.....	50 00	3 85	46 15
Ladies' parlor.....	108 37	72 31	36 06
Commencement.....	300 00	30 00	270 00
Debate medal.....	20 00	20 00	.....
Senator Morrill's bust.....	30 00	.....	30 00
President's house.....	5,121 19	5,121 19	.....
Glee, Mandolin, and Guitar Clubs.....	75 00	75 00	.....
School of Pharmacy.....	2,258 17	990 42	1,267 75

PAPER B—STATE APPROPRIATIONS.

	Received.	Expended.	Balance.	Assigned.
<i>For the years 1893-1895.</i>				
Closed out.....	\$294,879 14	\$294,879 14	.....	.....
Applied mechanics.....	472 00	472 00	.....	.....
Botany.....	450 00	405 65	\$44 35	\$44 35
Pedagogy.....	150 00	127 16	22 84	22 84
Greek.....	150 00	150 00	.....	.....
Woman's gymnasium.....	300 00	300 00	.....	.....
	\$296,401 14	\$296,333 95	\$67 19	\$67 19

*Paper B—State Appropriations—Continued.*

	Received.	Expended.	Balance.	Assigned.
<i>For the years 1895-1897.</i>				
<i>Apparatus and material—</i>				
Closed out.....	\$900 00	\$900 00	.....	.....
Psychology.....	300 00	213 09	\$86 91	\$86 91
Zoölogy.....	500 00	458 84	41 16	41 16
Physiology.....	500 00	287 62	212 38	212 38
Botany and horticulture.....	300 00	290 25	9 75	9 75
Chemistry.....	500 00	500 00	.....	.....
	\$3,000 00	\$2,649 80	\$350 20	\$350 20
<i>Operating Biological Experiment Station.....</i>	<i>\$1,500 00</i>	<i>\$1,493 03</i>	<i>\$6 97</i>	<i>\$6 97</i>
<i>Biological Experiment Station, equipment.....</i>	<i>\$1,500 00</i>	<i>\$2,379 80</i>	<i>\$120 20</i>	<i>\$120 20</i>
<i>Taxes on Minnesota lands.....</i>	<i>\$1,600 00</i>	<i>\$1,600 00</i>	<i>.....</i>	<i>.....</i>
<i>Paving street, etc.....</i>	<i>\$9,300 00</i>	<i>\$8,798 05</i>	<i>\$531 95</i>	<i>\$531 95</i>
<i>Astronomical Observatory.....</i>	<i>\$15,000 00</i>	<i>\$624 23</i>	<i>\$14,375 77</i>	<i>\$14,375 77</i>
<i>Laboratory of Vegetable Physiology.....</i>	<i>\$2,000 00</i>	<i>\$1,911 98</i>	<i>\$88 02</i>	<i>\$88 02</i>
<i>Library building.....</i>	<i>\$4,679 85</i>	<i>\$4,679 85</i>	<i>.....</i>	<i>.....</i>
Unassigned.....	\$145,320 15	.....	\$145,320 15	.....
	\$150,000 00	\$4,679 85	\$145,320 15	.....
<i>Salaries, etc.—</i>				
Closed out.....	\$5,265 00	\$5,265 00	.....	.....
Salaries for instruction.....	57,730 80	57,730 80	.....	.....
Salaries for services.....	9,743 09	9,743 09	.....	.....
Heating apparatus.....	500 00	494 77	\$5 23	\$5 23
Library catalogue.....	400 00	314 93	\$85 07	\$85 07
Buildings and grounds.....	2,235 07	2,052 36	182 71	182 71
Toilet rooms.....	375 00	292 50	\$82 50	\$82 50
Arboretum sewer.....	400 00	291 81	108 19	108 19
Art and design.....	250 00	206 33	43 67	43 67
Physical culture.....	820 00	817 27	2 73	2 73
School of Music.....	1,050 00	1,019 83	30 17	30 17
Lectures.....	1,000 00	811 26	188 74	188 74
Agriculture.....	3,000 00	2,874 31	125 69	125 69
Farm house.....	175 00	169 68	5 32	5 32
Preparatory School.....	90 00	65 35	24 65	24 65
Advertising and catalogue.....	1,900 00	816 51	1,083 49	1,083 49
University magazine.....	800 00	.....	800 00	800 00
<i>Illini.....</i>	<i>500 00</i>	<i>500 00</i>	<i>.....</i>	<i>.....</i>
Oratorical contest.....	100 00	50 00	50 00	50 00
Gas fixtures.....	100 00	88 23	11 77	11 77
Accredited schools.....	295 00	295 00	.....	.....
Applied chemistry.....	150 00	150 00	.....	.....
Entomological room.....	200 00	169 27	30 73	30 73
College of Literature and Arts, books.....	200 00	.....	200 00	200 00
Athletic fund.....	500 00	340 73	159 27	159 27
Military scholarships.....	270 00	270 00	.....	.....
Band scholarships.....	135 00	135 00	.....	.....
Unassigned.....	1,816 04	.....	1,816 04	.....
	\$90,000 00	\$84,964 03	\$5,035 97	\$3,219 93
<i>Fire protection.....</i>	<i>\$2,000 00</i>	<i>\$1,029 66</i>	<i>\$970 34</i>	<i>\$970 34</i>
<i>Library.....</i>	<i>\$3,000 00</i>	<i>\$2,281 09</i>	<i>\$718 91</i>	<i>\$718 91</i>
<i>Cabinets—</i>				
Geology.....	\$400 00	\$324 20	\$75 80	\$75 80
Unassigned.....	600 00	.....	600 00	.....
	\$1,000 00	\$324 20	\$675 80	\$75 80

*Paper B—State Appropriations—Concluded.*

	Received.	Expended.	Balance.	Assigned.
<i>College of Engineering—</i>				
Machine shop.....	\$17,008 04	\$17,008 04		
Mechanical engineering.....	2,600 00	2,600 00		
Electrical engineering and physics.....	3,200 00	2,702 34	\$497 66	\$497 66
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	105 47	1,494 53	1,494 53
Architecture.....	1,500 00	686 10	813 90	813 90
College of Engineering.....	500 00	193 58	306 42	306 42
Unassigned.....	1,991 96		1,991 96	
	\$30,000 00	\$23,617 18	\$6,382 82	\$4,390 86
<i>Furnishing and fitting Engineering Hall—</i>				
Electric wiring.....	\$1,191 77	\$1,191 77		
Furniture.....	2,302 90	1,882 53	\$420 37	\$420 37
Unassigned.....	1,505 33		1,505 33	
	\$5,000 00	\$3,074 30	\$1,925 70	\$420 37
<i>Shop practice—</i>				
Mechanical department.....	\$1,500 00	\$1,436 13	\$63 87	\$3 87
<i>Chemical Laboratory.....</i>	\$3,750 00	\$3,172 26	\$577 74	\$577 74
Unassigned.....	1,250 00		1,250 00	
	\$5,000 00	\$3,172 26	\$1,827 74	\$577 74
<i>Vaccine Laboratory.....</i>	\$3,000 00		\$3,000 00	
<i>Illinois State Laboratory of Natural History</i>	\$9,900 00	\$8,888 42	\$1,011 58	\$1,011 58

## PAPER C.—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1894,</i>				
Before reported on.....	\$18,500 00	\$18,500 00		
Architecture.....	500 00	500 00		
Total.....	\$19,000 00	\$19,000 00		
<i>Year ending June 30, 1895,</i>				
Before reported on.....	\$20,000 00	\$20,000 00		
<i>Year ending June 30, 1896.</i>				
Salaries for instruction.....	\$21,000 00	\$21,000 00		

*Paper D* is a list of vouchers presented for audit, being Nos. 676 to 1,455.

*Paper E* is an estimate of receipts and expenses for the year ending June 30, 1897. In making this estimate only the funds to be received in that year have been considered.

*Paper F* is a list of the general appropriations asked for the three months ending August 31, 1896.

*Paper G* is a statement of money received in the three months and the amount turned over to the Treasurer of the University.

In addition to the appropriations asked for in *Paper F*, the Board is requested to make the following order:

—17 U. I.

1. What may be left in the state appropriations of 1893-5, July 1, 1896, to be assigned to buildings and grounds.
2. What may be left of the assigned appropriations of 1895-7, July 1st, to be re-assigned for the same purposes with the following exceptions:

Arboretum sewer, present balance .....	\$108 19
Farm house, ..	5 32
Lectures, ..	188 74
University magazine, ..	800 00
Gas fixtures, ..	11 77
Entomological room, ..	30 73
	<hr/>
	\$1,144 75

3. What may be left of these balances to be assigned for instruction.
4. That the unassigned balance on the second page of *Paper B* be assigned for salaries for instruction, \$1,816.04.
5. That the unassigned balance of cabinets be assigned to be used, as the President may direct, for cabinets, \$600.00.
6. That the unassigned balance for College of Engineering equipment be assigned for use as may be agreed upon by the faculty of that College, \$1,991.96.
7. That the unassigned balance for the furnishing and fitting of Engineering Hall be assigned under similar conditions, \$1,505.33.
8. That the unassigned balance for the Chemical Laboratory (water survey) be assigned for purposes named in Professor Palmer's report, \$1,250.00.
9. That the appropriation for a Vaccine Laboratory be assigned for use under the direction of the President of the University and Dr. Burrill, \$3,000.00.
10. That the appropriation for the library building be assigned for use under the direction of the Building and Grounds Committee, \$145,320.15.

*From the State Appropriation due July 1, 1896.*

11. That the appropriations for the Laboratory of Natural History, \$9,900.00, and for the Biological Experiment Station, \$1,500.00, be assigned for use under the direction of Professor Forbes, \$11,400.00.
12. That for the library there be assigned for use under the direction of the Library Committee, \$3,000.00.
13. That for taxes on Minnesota lands there be assigned, \$1,600.00.
14. That from the appropriation for shop practice one-half be assigned, \$750.
15. That from the appropriation for apparatus and materials, the following assignments be made:

For zoölogy .....	\$200 00	
For geology .....	400 00	
For chemistry (work benches) .....	200 00	
For chemistry (apparatus) .....	500 00	
For mathematics (models, etc.) .....	300 00	
For botany (microscopes, \$280; apparatus, \$100) .....	380 00	
For laboratory applied chemistry .....	100 00	
	<hr/>	\$2,080 00

16. That from the appropriation for salaries, etc., the following assignments be made:

Botany (herbarium, etc.) .....	\$150 00	
Agriculture .....	500 00	
Women's gymnasium .....	100 00	
Men's gymnasium .....	300 00	
<i>Illini</i> .....	500 00	
<i>Illio</i> .....	100 00	
<i>Technograph</i> .....	100 00	
Art department .....	250 00	
Accredited schools .....	300 00	
Heating apparatus (repairs) .....	500 00	
Signal bells (additional) .....	100 00	
Music department .....	200 00	
Salaries for instruction (in <i>Paper F</i> ) .....	20,000 00	
Salary for services (in <i>Paper F</i> ) .....	2,000 00	
Buildings and Grounds (in <i>Paper F</i> ) .....	500 00	
		\$25,600 00

Respectfully submitted,

S. W. SHATTUCK,

*Business Manager.*

The recommendations of the report were adopted, and appropriations were made as asked.

The assignments made as recommended in *Paper F* were as follows:

#### APPROPRIATIONS.

Board expenses .....	\$500 00	
Salaries for instruction and President .....	21,100 00	
Salaries for services .....	2,300 00	
Buildings and grounds .....	1,000 00	
Fuel and lights and electric power .....	3,000 00	
Stationery and printing .....	600 00	
Repair shop .....	300 00	
Mechanical department .....	500 00	
Architectural, Horticultural, Military, and Civil Engineering departments .....	200 00	
Laboratories .....	2,000 00	
Library and apparatus .....	50 00	
Incidentals .....	400 00	
Furniture and fixtures .....	500 00	
Heating apparatus .....	500 00	
Water supply .....	125 00	
Minnesota lands .....	100 00	
School of Pharmacy .....	1,775 00	
School of Pharmacy, balance .....	1,267 75	
Commencement, balance .....	270 00	
		\$36,487 75

The Treasurer's report was received and referred to the Finance Committee:

## TREASURER'S REPORT.

CHARLES W. SPALDING, TREASURER IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,  
MAY 31, 1896.

		<i>Dr.</i>	
1896.	29	Balance.....	\$98,966 50
Feb.	3	Received from S. W. Shattuck on account of general fund.....	\$10,888 00
March	14	From Mary Muhlhausen, interest on contract No. 58.....	230 87
"	28	From S. W. Shattuck, paid warrants.....	2,065 38
April	1	From Anton Bengston, interest on contract No. 101.....	20 00
"	8	From U. S. Treasurer on account of U. S. Experiment Station, due April 1, 1896.....	3,750 00
"	8	From Eric Lindquist, principal on contract No 64.....	200 00
"	8	From Eric Lindquist, accrued interest.....	3 50
"	21	From W. L. Pillsbury, credit to Experiment Station farm fund.....	561 25
"	25	From State Treasurer, state appropriation for establishment of Laboratory for propagation of Pure Vaccine Virus.....	3,000 00
"	29	From State Treasurer, state appropriation for erection of a library building.....	150,000 00
"	29	From State Treasurer, balance of state appropriation for College of Engineering.....	5,000 00
"	29	From State Treasurer, balance of state appropriation for Astronomical Observatory and equipment.....	10,000 00
"	30	From S. W. Shattuck, paid warrants.....	2,370 56
May	4	Received Sangamon county bonds, due May 1, 1896.....	1,000 00
"	4	Sangamon county bonds, due May 1, 1897 and bonus.....	1,020 00
"	4	Sangamon county coupons, due May 1, 1896.....	250 00
"	5	From M. O. Batterbury, interest on contract No. 97.....	56 18
"	6	Shelby county bond, due May 5, 1896.....	500 00
"	6	Shelby county coupons, due May 5, 1896.....	270 00
"	7	Cass county coupons, due May 1, 1896.....	325 00
"	15	Received Bond county bond, due May 1, 1896.....	42 00
"	15	Received Bond county coupon, due May 1, 1896.....	400 00
"	18	From Joseph Hollen, principal on contract No. 116.....	10 00
"	29	From S. W. Shattuck, on account of Minnesota grass.....	4,756 96
"	29	From S. W. Shattuck, paid warrants.....	
"	31	Interest from Treasurer on endowment fund at 4 per cent., March, April, and May, 1896.....	306 64
"	31	Interest from Treasurer on all other funds at 2½ per cent., March, April, and May, 1896.....	704 02
			198,430 36
			\$297,396 86
		<i>Cr.</i>	
1896.	31	By amount paid out of general fund, as per list of warrants attached hereto.....	\$11,124 65
May	31	By amount paid out of state appropriation for salaries, etc., as per list of warrants attached hereto.....	30,783 55
"	31	By amount paid out of state appropriation for library building, as per list of warrants attached hereto.....	3,575 85
"	31	By amount paid out of state appropriation for library, as per list of warrants attached hereto.....	404 46
"	31	By amount paid out of state appropriation for Laboratory of Natural History, as per list of warrants attached.....	2,035 27
"	31	By amount paid out of state appropriation for Engineering College, as per list of warrants of warrants attached hereto.....	3,132 87
"	31	By amount paid out of state appropriation for Astronomical Observatory, as per list of warrants attached.....	598 23
"	31	By amount paid out of state appropriation for fitting and furnishing Engineering Hall, as per list of warrants attached hereto.....	362 09
"	31	By amount paid out of state appropriation for building and equipment of Biological Experiment Station, as per list of warrants attached hereto.....	1,498 62
"	31	By amount paid out of state appropriation for Biological Experiment Station expense, as per list of warrants attached hereto.....	274 18
"	31	By amount paid out of state appropriation for apparatus and material, as per list of warrants attached hereto.....	674 32
"	31	By amount paid out of state appropriation for shop practice, as per list of warrants attached hereto.....	268 45
"	31	By amount paid out of state appropriation for Chemical Laboratory, as per list of warrants attached hereto.....	361 82
"	31	By amount paid out of state appropriation for Laboratory of Vegetable Physiology, as per list of warrants attached hereto.....	221 35

May	31	By amount paid out of state appropriation for fire protection, as per list of warrants attached hereto.....	\$669 11	
"	31	By amount paid out of state appropriation for paving street and walks, as per list of warrants attached.....	362 50	
"	31	By amount paid out of farm fund, as per list of warrants attached hereto.....	961 63	
"	31	By amount paid out of Experiment Station fund, as per list of warrants attached hereto.....	3,661 75	
"	31	By amount paid out of U. S. fund, as per list of warrants attached hereto.....	49 09	
"	31	By amount paid out of fund for cabinets, as per list of warrants attached hereto.....	53 87	
				\$61,073 66
		Balances, May 31, 1896—		
		U. S. Experiment Station fund.....	\$3,827 47	
		Farm fund.....	197 34	
		General fund.....	4,432 93	
		Endowment fund.....	32,745 93	
		State appropriations—		
		For salaries, etc.....	15,883 45	
		For library building.....	145,324 15	
		For library.....	794 91	
		For Engineering College.....	7,000 47	
		For Laboratory of Natural History.....	1,666 96	
		For cabinets.....	714 64	
		For Astronomical Observatory.....	14,375 77	
		For fitting and furnishing Engineering Hall.....	2,077 30	
		For building and equipping Biological Experiment Station.....	183 67	
		For expense of Biological Experiment Station.....	6 97	
		For apparatus and material.....	369 64	
		For shop practice.....	179 04	
		For Chemical Laboratory.....	1,889 49	
		For Laboratory of Vegetable Physiology.....	88 02	
		For fire protection.....	1,033 10	
		For paving street and walks.....	531 95	
		For establishing and equipping Laboratory of Pure Vaccine Virus.....	3,000 00	
				236,323 20
				\$297,396 86

The Executive Committee returned, without recommendation, Professor Forbes's request for an appropriation of \$1,000.00 to aid in publishing reports of the Biological Experiment Station. The request was laid on the table.

The Treasurer's bill of \$1,750.59 for taxes paid and \$20.86 for incidental expenses was ordered paid.

The Board adjourned to meet at 7:30 in the evening.

#### EVENING SESSION.

It was voted to accept the bond of the H. M. R. Construction Co., \$25,000 in amount, with the American Security Co., for security, provided the same was found satisfactory to the Chairman of the Committee on Buildings and Grounds.

#### LOCATION OF LIBRARY BUILDING.

The following resolution was adopted:

*Resolved*, That the new library building be situated on the site selected northwesterly from University Hall, on the cardinal lines; the south side of the building to be not exceeding 30 feet north of the face line University Hall produced west; the west line to be 10 feet east of the east line of Wright street; the building to face north.



A motion was made to reconsider, and the motion to reconsider was laid on the table.

The following resolution was adopted:

*Resolved*, That Hon. James R. Mann and Hon. J. O. Cunningham be associated to represent the interests of the Board in the indictment found under the flag laws, but that the said attorneys be advised that the members of the Board have no desire to avoid the allegations against them on technical grounds, but that they shall establish the fact in court that the course pursued has been a full compliance with the intent of the law making power.

The resolution was adopted by the following vote:

Yeas: Messrs. Armstrong, Bullard, Graham, Morgan, Raymond and Dr. Smith. Nays: Messrs. McLean and Morrison.

The following summary of students attending the University was presented by the Secretary. (See p. 18.)

The Board adjourned.

JAMES E. ARMSTRONG,  
*President.*

W. L. PILLSBURY,  
*Secretary.*

## MEETING OF JUNE 26, 1896.

The Board of Trustees of the University of Illinois met in special session at Hotel Beardsley, in Champaign, Ill., at 8 o'clock a. m., Friday, June 26, 1896, pursuant to the following call issued by the Secretary, June 20, 1896:

“Upon the call of the President, Mr. James E. Armstrong, there will be a special meeting of the Board of Trustees at Hotel Beardsley, Champaign, Ill., at 8 o'clock a. m., Friday, June 26th, to transact such business as may be properly presented.

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

## FLAG LAW INDICTMENT.

The President, Mr. Armstrong, stated that a conference of a number of the members of the Board was held in Chicago shortly after the last meeting of the Board, and that there the matter of the indictment of the members of the Board for alleged violation of the flag law was discussed; and he also stated what steps had been taken to procure legal counsel for the trial set for 8:30 this morning.

The Board then took a recess to meet, after attending court, in the President's office, University Hall, Urbana, at 11:30 a. m.

When the Board met after the recess, on motion of Mr. McLean, it was voted that it be entered in the journal that Judge Wright, of the Circuit Court in Champaign county, holding that the laws were unconstitutional, had this day quashed the indictment found against the members of the Board of Trustees of the University for alleged failure to display the American flag in the precise manner provided by the statutes enacted at the last session of the General Assembly.

President Draper recommended the employment of Perry G. Holden as Assistant Professor of Agricultural Physics, at a salary of \$1,200.00 a year, one-half to be paid from University funds and the other half from Experimental Station funds. The term of service to begin September 1, 1896.

He also recommended the appointment of Mr. W. J. Fraser as Instructor in Dairying for the year beginning September 1, 1896, at a salary of \$800.00 a year, one-half to be paid from University funds, and one-half from Experiment Station funds.

On motion of Mr. Morrison these appointments were made as recommended.

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

WHEREAS, Matters arise in the transaction of our regular business involving points of law, therefore be it

*Resolved*, That the Board consider at its next regular meeting the question of appointing an attorney, who shall be the legal adviser of the Board, and attend to such matters of law as may occur in the ordinary business of the Board.

On motion of Mr. Morgan an appropriation of \$163.31 was made for the incidental account, the amount to be used in paying the balance due on account of concerts held at the University during the past year.

It was voted that Mr. O. T. Wills be paid the proportional part of a military scholarship for two terms of this year, during which he served as an officer of the battalion.

It was ordered that the inventories of the several departments of the University should be filed with the Business Manager on or before July 1st of each year.

It was ordered that bills for gas and for electric lighting at the President's House should be charged to the University.

The Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

JAMES E. ARMSTRONG,  
*President.*

# LIST OF WARRANTS FOR THE TEN MONTHS ENDING JUNE 30, 1896.

No.	Date.	To whom.	For what.	Amount.
	1895.			
1	Sept. 14	N. W. Graham.....	Expenses to Board meeting.....	\$18 57
2	"	S. A. Bullard.....	" ".....	35 70
3	"	N. B. Morrison.....	" ".....	84 80
4	"	R. P. Morgan.....	" ".....	70 04
5	"	Alex. McLean.....	" ".....	29 82
6	"	Isaac S. Raymond.....	" ".....	22 20
7	"	C. W. Spalding.....	Accrued int., prem's. and expenses.....	2,523 28
8	"	R. P. Manard.....	Scholarship.....	22 50
9	"	E. B. Forbes.....	Expenses and services.....	26 86
10	"	C. A. Hart.....	Expenses.....	9 14
11	"	Lydia M. Hart.....	Drawings.....	48 90
12	"	F. D. Wilson.....	Work in laboratory.....	27 81
13	"	Wm. Wood & Co.....	Manual of Bacteriology.....	8 00
14	"	H. W. Rokker.....	Stationery.....	56 50
15	"	K. F. Koehler's Antiquarium.....	Books.....	1 40
16	"	H. C. Forbes.....	Expenses.....	7 63
17	"	L. P. Breckenridge.....	".....	6 70
18	"	W. O. Krohn.....	".....	39 23
19	"	H. W. McDonald & Son.....	Sewer inlets.....	61 20
20	"	Bevis & Co.....	Drawers and repairs.....	91 00
21	"	J. H. Bainum.....	Repairs, etc.....	80 20
22	"	Champaign and Urbana Gas Co.....	Gas to July 23, 1895.....	281 26
23	"	Martin Bibbus.....	Sand.....	1 35
24	"	N. W. Davis.....	".....	7 50
25	"	Mrs. J. D. Bruner.....	Salary, July and August, 1895.....	266 70
26	"	Geo. L. Batchelder.....	On contract for wiring.....	1,509 58
27	"	Electric Lighting & Power Co.....	Power for July, 1895.....	40 00
28	"	Kenyon N. & P. Subscript'n Co.....	Subscriptions.....	10 90
29	"	Ward Bros.....	Binding books.....	141 40
30	"	H. W. Rokker.....	Printing.....	327 35
31	"	Chas. A. Hart.....	Expenses.....	2 60
32	"	The <i>Illini</i> .....	Copies of commencement number.....	25 00
33	"	Champaign Co. Printing Co.....	Printing.....	15 25
34	"	Keuffel & Esser Co.....	Apparatus.....	4 45
35	"	Eugene Dietzgen Co.....	".....	6 08
36	"	J. F. Tenney.....	Rubber stamp.....	7 40
37	"	Ft. Wayne Electric Corporat'n.....	Transformer.....	21 15
38	"	West'n Electrical Instrum't Co.....	Wattmeter.....	67 50
39	"	Davidson & Sons.....	Slate slabs.....	14 00
40	"	Meacham & Wright.....	Portland cement.....	14 50
41	"	Herman Behr & Co.....	Flint.....	5 91
42	"	Queen & Co.....	Air meter.....	60 00
43	"	E. Davenport.....	Expenses.....	6 31
44	"	Western Union Telegraph Co.....	Telegrams.....	9 18
45	"	F. J. Foote.....	Work as electrician.....	45 00
46	"	S. W. Parr.....	Expenses.....	21 45
47	"	J. T. Wolcott.....	Work in registrar's office.....	20 00
48	"	John Mayer.....	Salary, August, 1895.....	20 00
49	"	Payroll of men, August, 1895.....	Labor.....	845 69
50	"	Payroll of students, Aug., 1895.....	".....	112 14
51	Sept. 30	A. S. Draper.....	Salary for September, 1894.....	583 33
52	"	T. J. Burrill.....	" ".....	225 00
53	"	S. W. Shattuck.....	" ".....	166 66
54	"	E. Snyder.....	" ".....	166 66

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
55	Sept. 30	N. C. Ricker .....	Salary for September, 1895 .....	\$191 60
56	"	I. O. Baker .....	" " .....	183 33
57	"	S. A. Forbes .....	" " .....	83 33
58	"	C. W. Rolfe .....	" " .....	175 00
59	"	D. McIntosh .....	" " .....	150 00
60	"	A. N. Talbot .....	" " .....	175 00
61	"	A. W. Palmer .....	" " .....	175 00
62	"	F. F. Frederick .....	" " .....	158 33
63	"	S. W. Parr .....	" " .....	175 00
64	"	H. J. Barton .....	" " .....	166 66
65	"	Chas. M. Moss .....	" " .....	175 00
66	"	D. K. Dodge .....	" " .....	166 66
67	"	L. P. Breckenridge .....	" " .....	166 66
68	"	D. W. Shea .....	" " .....	183 33
69	"	David Kinley .....	" " .....	187 50
70	"	Eugene Davenport .....	" " .....	83 33
71	"	Arnold Tompkins .....	" " .....	150 00
72	"	E. J. Townsend .....	" " .....	137 50
73	"	H. E. Summers .....	" " .....	137 50
74	"	E. B. Greene .....	" " .....	133 33
75	"	Katharine Merrill .....	" " .....	108 33
76	"	William O. Krohn .....	" " .....	150 00
77	"	J. McLaren White .....	" " .....	125 00
78	"	Wm. H. VanDervoort .....	" " .....	137 50
79	"	W. D. Pence .....	" " .....	116 66
80	"	A. H. Daniels .....	" " .....	100 00
81	"	Harry S. Grindley .....	" " .....	87 50
82	"	T. A. Clark .....	" " .....	108 33
83	"	H. S. Piatt .....	" " .....	83 33
84	"	B. V. Swenson .....	" " .....	91 66
85	"	Geo. D. Fairfield .....	" " .....	83 33
86	"	Chas. W. Tooke .....	" " .....	83 33
87	"	Percy F. Bicknell .....	" " .....	129 16
88	"	H. Everett .....	" " .....	100 00
89	"	Walter H. Jones .....	" " .....	58 33
90	"	C. D. McLane .....	" " .....	110 00
91	"	W. E. Sandford .....	" " .....	80 00
92	"	J. D. Phillips .....	" " .....	85 00
93	"	Wm. Esty .....	" " .....	105 00
94	"	Frank Smith .....	" " .....	120 00
95	"	R. P. Smith .....	" " .....	120 00
96	"	A. C. Burnham .....	" " .....	80 00
97	"	Helen E. Butterfield .....	" " .....	75 00
98	"	Frank A. Sager .....	" " .....	85 00
99	"	Ella H. Morrison .....	" " .....	70 00
100	"	Robert A. Wood .....	" " .....	80 00
101	"	Oscar Quick .....	" " .....	75 00
102	"	G. A. Goodenough .....	" " .....	75 00
103	"	C. A. Gunn .....	" " .....	85 00
104	"	A. H. White .....	" " .....	80 00
105	"	G. W. McCluer .....	" " .....	15 00
106	"	Edward J. Lake .....	" " .....	60 00
107	"	C. F. Hottes .....	" " .....	60 00
108	"	M. S. Ketchum .....	" " .....	70 00
109	"	J. G. Mosier .....	" " .....	70 00
110	"	R. C. Vial .....	" " .....	70 00
111	"	Geo. A. Huff .....	" " .....	50 00
112	"	Elinor Ellsworth .....	" " .....	50 00
113	"	Paul Chipman .....	" " .....	70 00
114	"	C. B. Clark .....	" " .....	80 00
115	"	A. R. Curtiss .....	" " .....	80 00
116	"	Henry Jones .....	" " .....	60 00
117	"	J. R. Wilson .....	" " .....	50 00
118	"	Edward G. Howe .....	" " .....	150 00
119	"	N. A. Weston .....	" " .....	90 00
120	"	L. A. Clendenin .....	" " .....	65 00
121	"	Chas. N. Cole .....	" " .....	75 00
122	"	R. S. Douglass .....	" " .....	75 00
123	"	Wm. L. Steele .....	" " .....	30 00
124	"	Marion Thompson .....	" " .....	40 00
125	"	G. D. Hammond .....	" " .....	83 33
126	"	Geo. W. Graham .....	" " .....	100 00
127	"	M. T. Lindsey .....	" " .....	35 00
128	"	I. H. Allen .....	" " .....	35 00
129	"	F. J. Foote .....	" " .....	75 00
130	"	Lillie Heath .....	" " .....	60 00
131	"	H. I. Green .....	" " .....	50 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
132	Sept. 30	L. G. Lathrop.....	Salary for September, 1895.....	\$30 00
133	"	W. R. Hoffman.....	" " " " " " " "	35 00
134	"	J. J. Johnson.....	" " " " " " " "	26 00
135	"	Philip Schwehm.....	" " " " " " " "	25 00
136	"	J. G. Maynard.....	" " " " " " " "	30 00
137	"	Jas. M. Snyder.....	" " " " " " " "	35 00
138	"	Archie S. Golden.....	" " " " " " " "	19 00
139	"	W. L. Pillsbury.....	" " " " " " " "	116 66
140	"	A. B. Baker.....	" " " " " " " "	13 22
141	"	Susan W. Ford.....	" " " " " " " "	55 00
142	"	John Mayer.....	" " " " " " " "	20 00
143	"	W. G. Johnson.....	" " " " " " " "	100 00
144	"	Mary J. Snyder.....	" " " " " " " "	62 50
145	"	B. M. Duggar.....	" " " " " " " "	83 33
146	"	H. C. Forbes.....	" " " " " " " "	83 33
147	"	C. A. Kofoid.....	" " " " " " " "	100 00
148	"	C. A. Hart.....	" " " " " " " "	62 50
149	"	Adolph Hempel.....	" " " " " " " "	60 00
150	"	Miles Newberry.....	" " " " " " " "	45 00
151	"	James Dowhen.....	Kerosene.....	6 50
152	"	Cambridge Botanical Sup. Co.....	Labels, etc.....	21 20
153	"	Bausch & Lomb Optical Co.....	Laboratory supplies.....	5 89
154	"	J. M. Schilling.....	Groceries.....	24 32
155	"	Starr & Cogswell.....	Pipe fittings and labor.....	11 00
156	"	Am. Net and Twine Co.....	Net.....	40 00
157	"	C. A. Gunn.....	Plans for boat.....	27 00
158	"	Geo. Coleman.....	Freight and drayage.....	14 96
159	"	Franklin Eng. and Electro. Co.....	Half-tons.....	5 00
160	"	W. G. Johnson.....	Expenses.....	32 36
161	"	Pittsburg Reducing Co.....	Aluminum.....	2 30
162	"	E. H. Renner & Bro.....	Carriage.....	4 00
163	"	N. W. Graham.....	Expenses to Board meeting.....	17 67
164	"	Alex. McLean.....	" " " " " " " "	21 32
165	"	J. H. Bainum.....	Brick piers.....	5 00
166	"	W. H. Pierce & Co.....	Lantern slides.....	48 00
167	"	Bevis & Co.....	On contract machine shop.....	563 12
168	"	E. H. Sargent & Co.....	Laboratory supplies.....	20 82
169	"	Hubbard & Sons.....	Sewer pipe.....	15 83
170	"	A. H. Andrews.....	Settees, etc.....	520 19
171	"	Henry Heil Chemical Co.....	Chemical supplies.....	68 75
172	"	Champaign Co. Herald.....	Printing, etc.....	209 90
173	"	Pacific Express Co.....	Freightage.....	14 95
174	"	American Express Co.....	" " " " " " " "	42 90
175	"	F. L. Bills.....	Postage.....	50 00
176	"	Richards & Co.....	Chemical supplies.....	182 64
177	"	R. A. Webber.....	Abstract.....	4 50
178	"	A. H. Abbott & Co.....	Mats, etc.....	7 50
179	"	Albany Perf. Wrap. Paper Co.....	Paper.....	16 00
180	"	American Machinist.....	Advertising.....	2 40
181	"	Chicago Calcium Light Co.....	Gas.....	7 73
182	"	Chas. H. Besly & Co.....	Copper wire, etc.....	8 77
183	"	Whitall Tatum & Co.....	Mortar.....	5 65
184	"	Goodyear Rubber Co.....	Rubber tubing.....	21 30
185	"	Library Bureau.....	File cabinet.....	20 00
186	"	Samuel Harris Co.....	Gear cutter.....	2 77
187	"	Western News Co.....	Papers.....	16 85
188	"	James E. Armstrong.....	Expenses to Board meeting.....	12 36
189	"	S. W. Shattuck.....	Expenses, 3 mos. to Aug. 31, 1895.....	41 77
190	Oct. 15	A. C. McClurg & Co.....	Books.....	42 34
191	"	Macmillan & Co.....	Subscription.....	3 00
192	"	Houghton & Mifflin Co.....	" " " " " " " "	25 00
193	"	Association Eng. Societies.....	" " " " " " " "	3 00
194	"	G. E. Stechert.....	Books.....	260 36
195	"	Pantagraph Printing & Sta. Co.....	Books and binding.....	79 65
196	"	E. H. Sargent Co.....	Test tubes.....	4 89
197	"	S. R. Roberts.....	Manual of Conehology.....	6 00
198	"	Ginn & Co.....	Journal of Morphology.....	9 00
199	"	F. L. Bills.....	Postage.....	23 63
200	"	H. W. Rokker.....	Printing.....	26 75
201	"	B. M. Duggar.....	Expenses.....	6 59
202	"	J. M. Schilling.....	Supplies for cabin boat.....	4 30
203	"	Miles Newberry.....	Rent, etc.....	3 00
204	"	B. Zelle.....	Office rent.....	22 50
205	"	Jas. Moore.....	Work on well.....	3 00
206	"	C. L. Shear.....	N. Y. Fungi.....	6 00
207	"	Richards & Co.....	Chemical supplies.....	642 61
208	"	Eimer & Amend.....	Apparatus.....	30 62
209	"	W. C. Vosburgh Mfg. Co.....	Lamps, etc.....	26 45

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
210	1895.			
211	Oct. 15	E. G. Smith.....	Calipers, etc.....	\$33 10
212	"	Whiting Foundry Equipm't Co.....	Cupola.....	125 00
213	"	C. T. Wilder.....	Lantern slides.....	70 00
214	"	Rice Machinery Co.....	Apparatus.....	3 85
215	"	Brown & Sharpe Mfg. Co.....	Gear cutter.....	9 77
216	"	Frank E. Pitts Mfg. Supply Co.....	".....	7 78
217	"	Orr & Lockett Hardware Co.....	Glue and band saw.....	18 99
218	"	Sheldon Brick Co.....	Brick and cement.....	29 40
219	"	Maltby & Wallace Co.....	Fittings and supplies.....	49 80
220	"	Champaign Supply Co.....	Sewer pipe and shop supplies.....	66 53
221	"	William Price.....	Painting, etc.....	157 19
222	"	Robinson & Burr.....	Pipe, fittings, and labor.....	103 96
223	"	Emil Greiner.....	Apparatus.....	15 75
224	"	W. R. Howe.....	Drayage.....	102 93
225	"	A. S. Aloe & Co.....	Paper.....	7 70
226	"	E. F. Frederick.....	Expenses.....	4 20
227	"	Leonard & Ellis.....	Machine oil.....	14 02
228	"	E. Henry.....	Janitors' supplies, etc.....	48 65
229	"	T. H. Trevett.....	Hardware.....	21 62
230	"	J. M. Chase.....	Painting warehouse.....	67 70
231	"	J. T. Wolcott.....	Typewriting, etc.....	29 65
232	"	Fuller & Fuller Co.....	Corks.....	22 08
233	"	Henry Heil Chemical Co.....	Filters, etc.....	5 96
234	"	Eichberg & Bear.....	Cloth.....	11 45
235	"	LaFayette Lumber Mfg. Co.....	Card holders.....	4 80
236	"	Mittendorf & Kiler.....	Picture frames, etc.....	25 25
237	"	Lyon & Potter Co.....	Piano.....	800 00
238	"	T. H. Castor Co.....	Encyclopedia.....	3 53
239	"	Union Mfg. Co.....	Water, 3 months, to Dec. 31, 1895.....	125 00
240	"	Pratt & Whitney Co.....	Hand taps, etc.....	4 69
241	"	Nicholson File Co.....	Files.....	25 75
242	"	Howe-Brown Co.....	Tools.....	59 76
243	"	Cleveland Twist Drill Co.....	Drills.....	9 00
244	"	Norton Emery Wheel Co.....	Emery wheels.....	15 66
245	"	C. A. Gunn.....	Drawings.....	8 00
246	"	National Typewriter Exchange.....	Repairs.....	2 50
247	"	Montgomery & Co.....	Punch.....	3 05
248	"	A. Smith & Sons.....	Insect pins.....	4 60
249	"	Geo. E. McHose.....	Boats.....	20 84
250	"	Geo. Coleman.....	Drayage.....	2 50
251	"	Geo. E. McHose.....	Boats.....	44 01
252	"	P. E. Taintor.....	On contract, cement walks.....	2,000 00
253	"	Jones & Laughlins.....	Steel and iron.....	60 67
254	"	Bevis & Co.....	Screens and lockers.....	189 10
255	"	The Hammond Typewriter Co.....	Repairs.....	1 10
256	"	W. O. Krohn.....	Expenses.....	17 56
257	"	R. P. Morgan.....	Expenses.....	81 04
258	"	Henry Trevett.....	Fire extinguishers.....	386 31
259	"	Shipman Mfg. Co.....	Ink.....	1 00
260	"	<i>The Gazette</i> .....	Printing, etc.....	275 60
261	"	R. Herbst.....	Typewriter ribbon.....	2 50
262	"	C. V. Millar.....	Salary, September, 1895.....	60 00
263	"	National Municipal League.....	Book.....	1 50
264	"	Edward W. Bemis.....	Lectures.....	100 00
265	"	Central Union Telephone Co.....	Telephone services to Dec. 1, 1895.....	12 50
266	"	Western Union Telegraph Co.....	Telegrams.....	13 17
267	"	H. Swannell.....	Laboratory supplies.....	3 15
268	"	E. Miller & Son.....	Cord, etc.....	2 45
269	"	E. S. Ritchie & Sons.....	Plate.....	5 75
270	"	Post & Jacobi Co.....	Paper.....	3 15
271	"	Bevis & Co.....	On contract.....	1,529 38
272	"	Western Electric Inst. Co.....	Multiplier.....	31 50
273	"	Petty & Sayers.....	Slate.....	2 00
274	"	DuQuoin Union Coal Co.....	Coal.....	1,044 20
275	"	Payroll of men, Sept., 1895.....	Labor.....	595 42
276	"	Payroll of students, Sept., 1895.....	Labor.....	53 64
277	Oct. 31	A. S. Draper.....	Salary for October, 1895.....	583 32
278	"	T. J. Burrill.....	".....	225 00
279	"	S. W. Shattuck.....	".....	166 64
280	"	Edward Snyder.....	".....	166 64
281	"	N. C. Ricker.....	".....	191 64
282	"	Ira O. Baker.....	".....	183 32
283	"	S. A. Forbes.....	".....	83 32
	"	C. W. Rolfe.....	".....	175 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
284	Oct. 1895.	D. McIntosh .....	Salary for October, 1895 .....	\$150 00
285	"	A. N. Talbot .....	" .....	175 00
286	"	A. W. Palmer .....	" .....	175 00
287	"	F. F. Frederick .....	" .....	158 33
288	"	S. W. Parr .....	" .....	175 00
289	"	H. J. Barton .....	" .....	166 66
290	"	Chas. M. Moss .....	" .....	175 00
291	"	D. K. Dodge .....	" .....	166 66
292	"	L. P. Breckenridge .....	" .....	166 66
293	"	D. W. Shea .....	" .....	183 33
294	"	David Kinley .....	" .....	187 50
295	"	Eugene Davenport .....	" .....	83 33
296	"	Arnold Tompkins .....	" .....	150 00
297	"	Edgar J Townsend .....	" .....	137 50
298	"	H. E. Summers .....	" .....	137 50
299	"	E. B. Greene .....	" .....	133 33
300	"	Katharine Merrill .....	" .....	108 33
301	"	W. O. Krohn .....	" .....	150 00
302	"	James M. White .....	" .....	125 00
303	"	W. H. VanDervoort .....	" .....	137 50
304	"	W. D. Pence .....	" .....	166 66
305	"	A. H. Daniels .....	" .....	100 00
306	"	H. S. Grindley .....	" .....	87 50
307	"	T. A. Clark .....	" .....	108 33
308	"	H. S. Piatt .....	" .....	83 33
309	"	B. V. Swenson .....	" .....	91 66
310	"	Geo. D. Fairfield .....	" .....	83 33
311	"	Chas. Tooke .....	" .....	83 33
312	"	Percy F. Bicknell .....	" .....	129 16
313	"	Henry H. Everett .....	" .....	100 00
314	"	Walter H. Jones .....	" .....	58 33
315	"	G. D. Hammond .....	" .....	83 33
316	"	C. D. McLane .....	" .....	110 00
317	"	W. E. Sandford .....	" .....	80 00
318	"	J. D. Phillips .....	" .....	85 00
319	"	William Esty .....	" .....	105 00
320	"	Frank Smith .....	" .....	120 00
321	"	R. P. Smith .....	" .....	120 00
322	"	A. C. Burnham .....	" .....	80 00
323	"	Helen E. Butterfield .....	" .....	75 00
324	"	Fred A. Sager .....	" .....	85 00
325	"	Ella H. Morrison .....	" .....	70 00
326	"	Robt. A. Wood .....	" .....	80 00
327	"	Oscar Quick .....	" .....	75 00
328	"	G. A. Goodenough .....	" .....	75 00
329	"	Chas. A. Gunn .....	" .....	85 00
330	"	Alfred H. White .....	" .....	80 00
331	"	G. W. McCluer .....	" .....	15 00
332	"	E. J. Lake .....	" .....	60 00
333	"	Chas. F. Hottes .....	" .....	60 00
334	"	M. S. Ketchum .....	" .....	70 00
335	"	J. G. Mosier .....	" .....	70 00
336	"	R. C. Vial .....	" .....	70 00
337	"	Geo. A. Huff .....	" .....	50 00
338	"	Elinor Ellsworth .....	" .....	50 00
339	"	Paul Chipman .....	" .....	70 00
340	"	C. B. Clark .....	" .....	80 00
341	"	A. R. Curtiss .....	" .....	80 00
342	"	Henry Jones .....	" .....	60 00
343	"	J. H. Wilson .....	" .....	50 00
344	"	E. G. Howe .....	" .....	150 00
345	"	N. A. Weston .....	" .....	90 00
346	"	Lillie A. Clendenin .....	" .....	65 00
347	"	Chas. N. Cole .....	" .....	75 00
348	"	R. S. Douglass .....	" .....	75 00
349	"	Wm. L. Steele .....	" .....	30 00
350	"	Marion Thompson .....	" .....	40 00
351	"	Geo. W. Graham .....	" .....	100 00
352	"	A. B. Baker .....	" .....	41 66
353	"	M. T. Lindsey .....	" .....	35 00
354	"	I. H. Allen .....	" .....	35 00
355	"	F. J. Foote .....	" .....	75 00
356	"	Lillie Heath .....	" .....	60 00
357	"	H. I. Green .....	" .....	50 00
358	"	Susan W. Ford .....	" .....	45 00
359	"	W. R. Hoffman .....	" .....	35 00
360	"	J. M. Snyder .....	" .....	35 00
361	"	L. G. Lathrop .....	" .....	30 00



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
362	Oct. 31	J. J. Johnson.....	Salary for October, 1895.....	\$30 00
363	"	J. G. Maynard.....	" ".....	30 00
364	"	Archie S. Golden.....	" ".....	30 00
365	"	Philip Schwehm.....	" ".....	25 00
366	"	W. L. Pillsbury.....	" ".....	166 66
367	"	C. V. Millar.....	" ".....	60 00
368	"	John Mayer.....	" ".....	20 00
369	"	W. G. Johnson.....	" ".....	100 00
370	"	Mary J. Snyder.....	" ".....	62 50
371	"	C. A. Hart.....	" ".....	62 50
372	"	B. M. Duggar.....	" ".....	83 33
373	"	H. C. Forbes.....	" ".....	83 33
374	"	C. A. Kofoid.....	" ".....	100 00
375	"	Adolph Hempel.....	" ".....	60 00
376	"	Chas. T. Wilder.....	Negatives.....	8 50
377	"	Public School Publishing Co.....	Advertising.....	6 00
378	"	Brown & Sharpe Mfg. Co.....	Castings.....	18 00
379	"	Howe, Brown & Co.....	Tools.....	3 92
380	"	A. P. Cunningham & Son.....	Net, balls, etc.....	9 41
381	"	J. W. Seaver.....	Record book.....	6 00
382	"	William Price.....	Lettering, etc.....	7 00
383	"	T. H. Trevett.....	Hardware.....	2 70
384	"	Champaign Co. Printing Co.....	Printing.....	10 00
385	"	Office Specialty Mfg. Co.....	Cases, index, etc.....	191 24
386	"	G. L. Batchelder.....	Wire, etc.....	56 81
387	"	Mary A. Wood.....	Anthropometric tables.....	6 24
388	"	Eimer & Amend.....	Laboratory supplies.....	2 45
389	"	Yale & Towne Mfg. Co.....	Padlocks.....	16 50
390	"	Lehigh Zinc and Iron Co.....	Zinc.....	30 00
391	"	Chas. H. Besly Co.....	Magnets.....	2 37
392	"	Richards & Co.....	Ether.....	8 10
393	"	W. W. Walls & Co.....	Cement.....	4 00
394	"	Miller Harness Co.....	Mail pouch.....	3 50
395	"	Inter-State School Review.....	Advertising.....	1 50
396	"	B. F. Stevens.....	Books.....	2 65
397	"	Harland Scott.....	Work.....	10 00
398	"	Isaac Fielding.....	Postage.....	10 00
399	"	F. L. Bills.....	".....	45 72
400	"	C. L. Strobel.....	Machine shop roof contract.....	2,967 14
401	"	Robert Clark.....	Paving.....	5,267 20
402	"	Weston Electrical Inst. Co.....	Wattmeter, etc.....	211 50
403	"	P. E. Taintor.....	Dairy house floor.....	35 00
404	"	W. W. Walls & Co.....	Lumber.....	12 43
405	"	W. C. Vosburgh Mfg. Co.....	Gas fixtures.....	75 75
406	"	Robinson & Burr.....	Sinks, etc.....	82 90
407	"	M. Graf Krüsi.....	Butterfly nets.....	2 25
408	"	D. Appleton & Co.....	Chapman's birds.....	2 53
409	"	Richards & Co.....	Tubes.....	2 22
410	"	Racine Boat Mfg. Co.....	Copper float.....	1 25
411	"	W. H. Jones.....	Music.....	19 54
412	"	A. M. Paige.....	Tuning piano.....	5 00
413	"	Freind & Bernard.....	Music.....	24 95
414	"	W. L. Steele.....	Mouthpiece and repairs.....	1 95
415	"	W. G. Johnson.....	Expenses.....	31 65
416	"	C. C. C. & St. L. R'y Co.....	Freightage.....	22 40
417	"	Wabash R. R. Co.....	".....	33 51
418	"	I. C. R. R. Co.....	".....	39 64
419	"	Pacific Express Co.....	".....	25 50
420	"	American Express Co.....	".....	46 70
421	"	Champaign Supply Co.....	Inspirator and pipe and fittings.....	85 91
422	"	Maltby & Wallace Co.....	Pipe and fittings.....	40 19
423	"	W. F. Hunt.....	Locks.....	13 34
424	"	Geo. L. Batchelder.....	Electric lighting material.....	102 31
425	"	D. W. Shea.....	Expenses.....	49 40
426	"	A. C. McClurg & Co.....	Books.....	235 74
427	"	Western News Co.....	Subscription.....	2 65
428	"	Ginn & Co.....	Trans. Am. Philological Ass'n.....	2 00
429	"	C. A. Besore.....	Lumber.....	4 29
430	"	A. P. Cunningham & Son.....	Basket balls.....	2 00
431	"	Bevis & Co.....	Lumber.....	3 50
432	"	Henry R. Worthington.....	Water meter.....	20 00
433	"	A. H. Andrews & Co.....	Settees and chairs.....	59 08
434	"	Stearns Lime and Stone Co.....	Plaster.....	2 25
435	"	A. H. Abbott & Co.....	Hangers.....	1 75
436	"	D. H. Lloyd & Son.....	Stationery.....	9 70
437	"	A. S. Aloe & Co.....	Mercury plumb-bob.....	1 15



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
516	Nov. 30	D. K. Dodge .....	Salary for November, 1895.....	\$166 66
517	"	L. P. Breckinridge.....	"	166 66
518	"	David Kinley.....	"	187 50
519	"	Eugene Davenport.....	"	83 33
520	"	E. J. Townsend .....	"	137 50
521	"	H. E. Summers.....	"	137 50
522	"	E. B. Greene.....	"	133 33
523	"	Katharine Merrill.....	"	108 33
524	"	William O. Krohn.....	"	150 00
525	"	James M. White.....	"	125 00
526	"	W. H. Van Dervoort.....	"	137 50
527	"	W. D. Pence.....	"	116 66
528	"	A. H. Daniels.....	"	100 00
529	"	H. S. Grindley.....	"	87 50
530	"	T. A. Clark.....	"	108 33
531	"	H. S. Piatt.....	"	83 33
532	"	B. V. Swenson.....	"	91 66
533	"	Geo. D. Fairfield.....	"	83 33
534	"	Chas. W. Tooke.....	"	83 33
535	"	Percy F. Bicknell.....	"	129 16
536	"	Henry H. Everett.....	"	100 00
537	"	Walter H. Jones.....	"	58 33
538	"	G. D. Hammond.....	"	83 33
539	"	C. D. McLane.....	"	110 00
540	"	W. E. Sandford.....	"	80 00
541	"	J. D. Phillips.....	"	85 00
542	"	William Esty.....	"	105 00
543	"	Frank Smith.....	"	120 00
544	"	R. P. Smith.....	"	120 00
545	"	A. C. Burnham.....	"	80 00
546	"	Helen E. Butterfield.....	"	75 00
547	"	Fred A. Sager.....	"	85 00
548	"	Ella H. Morrison.....	"	70 00
549	"	Robt. A. Wood.....	"	80 00
550	"	Oscar Quick.....	"	75 00
551	"	G. A. Goodenough.....	"	75 00
552	"	Chas. A. Gunn.....	"	85 00
553	"	A. H. White.....	"	80 00
554	"	G. W. McCluer.....	"	15 00
555	"	Edward J. Lake.....	"	60 00
556	"	Chas. F. Hottes.....	"	60 00
557	"	M. S. Ketcham.....	"	70 00
558	"	J. G. Mosier.....	"	70 00
559	"	R. C. Vial.....	"	70 00
560	"	Geo. A. Huff.....	"	50 00
561	"	Elinor Ellsworth.....	"	50 00
562	"	Paul Chipman.....	"	70 00
563	"	C. B. Clark.....	"	80 00
564	"	A. R. Curtiss.....	"	80 00
565	"	Henry Jones.....	"	60 00
566	"	Burton E. Moore.....	"	80 00
567	"	J. H. Wilson.....	"	50 00
568	"	Edward G. Howe.....	"	150 00
569	"	N. A. Weston.....	"	90 00
570	"	Lillie A. Clendenin.....	"	65 00
571	"	Chas. N. Cole.....	"	75 00
572	"	R. S. Douglass.....	"	75 00
573	"	Wm. L. Steele.....	"	50 00
574	"	Marion Thompson.....	"	40 00
575	"	Robert K. Porter.....	"	10 00
576	"	Geo. W. Graham.....	"	100 00
577	"	A. B. Baker.....	"	41 66
578	"	M. T. Lindsey.....	"	35 00
579	"	I. H. Allen.....	"	35 00
580	"	F. J. Foote.....	"	75 00
581	"	Lillie Heath.....	"	60 00
582	"	Sue W. Ford.....	"	50 00
583	"	L. A. Boice.....	"	50 00
584	"	W. R. Hoffman.....	"	35 00
585	"	J. M. Snyder.....	"	35 00
586	"	L. G. Lathrop.....	"	30 00
587	"	J. J. Johnson.....	"	30 00
588	"	J. Morrow.....	"	70 00
589	"	J. G. Maynard.....	"	30 00
590	"	Archib S. Golden.....	"	30 00
591	"	Philip Schwehm.....	"	25 00
592	"	W. L. Pillsbury.....	"	116 66

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
593	Nov. 30	L. P. Breckenridge.....	Salary 3 months to date.....	\$62 50
594	"	S. W. Shattuck.....	Expenses and salary to date.....	162 40
595	"	Mary J. Snyder.....	Salary for November, 1895.....	62 50
596	"	Chas. A. Hart.....	" ".....	62 50
597	"	W. G. Johnson.....	" ".....	110 00
598	"	C. A. Kofoid.....	" ".....	100 00
599	"	B. M. Duggar.....	" ".....	83 33
600	"	H. C. Forbes.....	" ".....	83 33
601	"	Bevis & Co.....	On contract, machine shop.....	340 00
602	"	C. L. Strobe.....	Machine shop roof.....	612 00
603	"	C. V. Millar.....	Salary for November, 1895.....	60 00
604	"	Richards & Co.....	Chemical supplies.....	48 02
605	"	Josephine Skehan.....	Herbarium specimens.....	11 00
606	"	G. E. Stechert.....	Books.....	16 56
607	"	J. M. White.....	".....	26 35
608	"	W. W. Walls & Co.....	Lumber.....	29 30
609	"	M. A. Reasoner.....	Care of hat room, Nov. 1895.....	19 00
610	"	S. A. Forbes.....	Salary 3 months, to date.....	62 50
611	"	Adolph Hempel.....	Salary, November, 1895.....	60 00
612	"	Harlen Scott.....	Messenger.....	10 00
613	"	H. C. Forbes.....	Expenses.....	3 70
614	"	Richard Kny & Co.....	Laboratory supplies.....	3 75
615	"	Mitchell Bros. Co.....	Subscription to American Miller.....	2 00
616	"	A. D. MacGilleoray.....	Larvæ.....	2 00
617	"	The S. Obermayer Co.....	Shop supplies.....	17 95
618	"	Machinist Supply Co.....	Supplies.....	43 45
619	"	C. N. Clark & Co.....	Stone cubes and sand.....	32 75
620	"	Hubbard & Sons.....	Hardware.....	8 95
621	"	J. Hamilton & Son.....	Lime, etc.....	3 14
622	"	Chas. H. Besly & Co.....	Brass.....	2 73
623	"	Pantagraph Print. & Stat'y Co.....	Certificates.....	4 50
624	"	Western Union Telegraph Co.....	Telegrams.....	4 87
625	"	W. R. Howe.....	Drayage.....	25 03
626	"	N. W. Graham.....	Expenses to committee meeting.....	20 51
627	"	Mrs. Helen Campbell.....	Lectures and expenses.....	176 10
628	"	John Mayer.....	Salary, November, 1895.....	20 00
629	"	E. W. Justus.....	".....	45 00
630	"	Chas. B. Ewalt.....	".....	15 00
631	"	Emma Siebert.....	Assistance in drawing.....	25 00
632	"	W. O. Krohn.....	Expenses.....	18 72
633	"	Illinois Central R. R. Co.....	Freightage.....	70 68
634	"	Isaac Fielding.....	Postage.....	10 00
635	"	R. Herbst.....	Hectograph ribbon.....	1 50
636	"	Wabash R. R. Co.....	Freightage.....	12 10
637	"	Liquid Carbonic Acid Mfg. Co.....	Acid.....	3 25
638	"	Riley Jewelry Co.....	Diamond.....	3 00
639	"	C. C. C. & St. L. R'y Co.....	Freightage.....	33 28
640	"	The Northwest'n Cal. Light Co.....	Gas.....	6 45
641	"	Hubbard & Sons.....	Hardware.....	3 80
642	"	Louise Dewey.....	Work on charts.....	25 62
643	"	F. L. Bills.....	Postage.....	108 00
644	"	Champaign Supply Co.....	Machine shop supplies.....	69 89
645	"	Maltby & Wallace Co.....	Pipe and fittings.....	21 03
646	"	Robinson & Burr.....	".....	46 50
647	"	Bevis & Co.....	Herbarium cases, etc.....	213 90
648	"	H. Swannell.....	Paints, oils, etc.....	14 15
649	"	E. Henry.....	Shop and janitors' supplies.....	85 65
650	"	D. H. Lloyd & Son.....	Stationery, etc.....	36 45
651	"	Richards & Co.....	Chemical supplies.....	183 52
652	"	Jones & Laughlins.....	Beams, etc.....	94 61
653	"	Clara E. Cummings.....	N. A. lichens.....	6 95
654	"	The Dean Steam Pump Co.....	Fibrous packing.....	1 61
655	"	The M. C. Lilley & Co.....	Swords and belts.....	40 50
656	"	The Urbana Brick Co.....	Brick, etc.....	74 23
657	"	Mittendorf & Kiler.....	Box and mirror.....	4 75
658	"	The Gazette.....	Printing.....	188 09
659	"	Champaign County Herald.....	".....	128 10
660	"	Clinton Pav. and Bldg. Brick Co.....	Brick.....	2 40
661	"	Henry Trevett.....	Hardware.....	223 25
662	"	A. C. McClurg & Co.....	Books and stationery.....	107 11
663	"	H. H. Everett.....	Expenses.....	1 65
664	"	E. H. Renner & Bro.....	Hack hire.....	4 00
665	"	The DuQuoin Coal Co.....	Coal.....	554 06
666	"	Champaign Co. Printing Co.....	Printing.....	18 75

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
667	1895.			
668	Nov. 30	F. K. Robeson & Bros .....	Carpeting, etc .....	\$7 34
669	"	C. A. Besore .....	Lumber, etc .....	22 20
670	"	F. W. Honens .....	Subscription to <i>Illini</i> , etc .....	265 00
671	"	Agricultural Exper. Station .....	Work on Athletic Park .....	26 88
672	"	Repair Shop, U. of I. ....	Labor and material, Nov., 1895 .....	279 94
673	"			95 98
674	"	Dept. App. Chemistry .....	Analysis .....	5 25
675	"	Mech. Dept., Nov., 1895 .....	Labor and material .....	158 83
676	Dec. 13	Arch. Dept., Nov., 1895 .....		790 31
677	"	Bevis & Co. ....	Contract for President's House .....	1,500 00
678	"	S. S. Beman .....	Service as architect .....	300 00
679	"	Maltby & Wallace Co. ....	Heat'g contract, President's House .....	641 05
680	"	Bevis & Co. ....	On contract President's House .....	3,500 00
681	"	Robinson & Burr .....	Work in chemical laboratory .....	378 40
682	"	City of Urbana .....	Sewer tax .....	80 88
683	"	Electric Lighting & Power Co. ....	Electric power .....	160 00
684	"	A. S. Draper .....	Traveling expenses .....	116 60
685	"	C. W. Spalding .....	Expenses .....	235 11
686	"	Isham Randolph .....	" .....	9 66
687	"	N. W. Graham .....	" .....	22 12
688	"	Alex. McLean .....	" .....	28 13
689	"	S. A. Bullard .....	" .....	11 58
690	"	R. B. Morgan .....	" .....	41 23
691	"	N. B. Morrison .....	" .....	108 95
692	"	Isaac S. Raymond .....	" .....	24 50
693	"	Julia Holmes Smith .....	" .....	82 25
694	"	J. E. Armstrong .....	" .....	14 16
695	"	W. R. Howe .....	Drayage .....	45 87
696	"	Champion and Urna P. Tel. Co. ....	Service 1½ month Dec. 15, 1895 .....	20 25
697	"	E. H. Kenner & Bro. ....	Carriage .....	1 50
698	"	Isaac Fielding .....	Postage .....	10 00
699	"	E. L. Bills .....	" .....	82 13
700	"	Payrolls of men Nov., 1895 .....	Labor .....	644 76
701	"	Payrolls of students Nov., 1895 .....	" .....	78 96
702	"	E. H. Sargent & Co. ....	Mailing boxes .....	6 25
703	"	H. R. Taylor .....	Subscription to vol. 3, Nidiologist .....	1 00
704	"	C. T. Bush .....	Chairs .....	13 50
705	"	E. O. Vail .....	Subscription and Directory .....	2 50
706	"	Cambridge Entomological Club .....	" to Psyche .....	18 00
707	"	E. T. Cresson .....	" to Entomological News .....	1 00
708	"	S. Raymond Roberts .....	Manual of Conchology .....	6 00
709	"	W. H. Van Dervoort .....	Services and expenses .....	8 56
710	"	I. O. Baker .....	Expenses .....	7 91
711	"	Narragansett Machine Co. ....	Gymnasium apparatus .....	267 60
712	"	A. G. Spalding & Bro .....	" .....	12 00
713	"	G. W. McGuer .....	Expenses .....	11 14
714	"	Queen & Co. ....	Thermometers .....	11 20
715	"	Goes Lithographing Co. ....	Engravings .....	1 85
716	"	Edward G. Bolles .....	Premium for library plans .....	500 00
717	"	Arms & Hart .....	" .....	300 00
718	"	Clinton J. Warren .....	" .....	200 00
719	"	Osgood & Stone .....	" .....	100 00
720	"	Clinton Pav. & Build. Brick Co .....	Brick .....	18 00
721	"	Macomb Sewer Pipe Co. ....	Sewer pipe .....	153 56
722	"	Bausch & Lomb Optical Co. ....	Specimens .....	92 55
723	"	Doane House .....	Hotel bill .....	4 00
724	"	Ill. Soc. of Engin' sand Suv'rs .....	Advertisement .....	10 00
725	"	The Western News Co. ....	Subscriptions .....	267 85
726	"	G. E. Stechert .....	" .....	17 70
727	"	A. S. Draper .....	Salary for December, 1895 .....	583 33
728	"	T. J. Burrill .....	" .....	225 00
729	"	S. W. Shattuck .....	" .....	166 66
730	"	E. Snyder .....	" .....	166 66
731	"	N. C. Ricker .....	" .....	191 66
732	"	Ira O. Baker .....	" .....	183 33
733	"	S. A. Forbes .....	" .....	83 33
734	"	C. W. Rolfe .....	" .....	175 00
735	"	D. McIntosh .....	" .....	150 00
736	"	A. N. Talbot .....	" .....	175 00
737	"	A. W. Palmer .....	" .....	175 00
738	"	F. F. Frederick .....	" .....	158 33
739	"	S. W. Parr .....	" .....	175 00
740	"	H. J. Barton .....	" .....	166 66
741	"	Chas. M. Moss .....	" .....	175 00
742	"	D. K. Dodge .....	" .....	166 66
743	"	L. P. Breckenridge .....	" .....	166 66
744	"	David Kinley .....	" .....	187 50
745	"	Eugene Davenport .....	" .....	83 33

*List of Warrants—Continued.*

No.	Date.	To Whom.	For what.	Amount.
	1895.			
745	Dec. 31	Arnold Tompkins.....	Salary, November and Dec'ber, '95.	\$300 00
746	"	Edgar J Townsend.....	Salary for December, 1895.....	137 50
747	"	H. E. Summers.....	" " " " " "	137 50
748	"	E. B. Greene.....	" " " " " "	133 33
749	"	Katharine Merrill.....	" " " " " "	108 33
750	"	W. O. Krohn.....	" " " " " "	150 00
751	"	James M. White.....	" " " " " "	125 00
752	"	W. H. Van Dervoot.....	" " " " " "	137 50
753	"	W. D. Pence.....	" " " " " "	116 66
754	"	A. H. Daniels.....	" " " " " "	100 00
755	"	H. S. Grindley.....	" " " " " "	87 50
756	"	T. A. Clark.....	" " " " " "	108 33
757	"	H. S. Piatt.....	" " " " " "	83 33
758	"	B. V. Swenson.....	" " " " " "	91 66
759	"	Geo. D. Fairfield.....	" " " " " "	83 33
760	"	Chas. W. Tooke.....	" " " " " "	83 33
761	"	Percy F. Bicknell.....	" " " " " "	129 16
762	"	Henry H. Everett.....	" " " " " "	100 00
763	"	Walter H. Jones.....	" " " " " "	58 33
764	"	G. D. Hammond.....	" " " " " "	83 33
765	"	C. D. McLane.....	" " " " " "	110 00
766	"	W. E. Sandford.....	" " " " " "	80 00
767	"	J. D. Phillips.....	" " " " " "	85 00
768	"	William Esty.....	" " " " " "	105 00
769	"	Frank Smith.....	" " " " " "	120 00
770	"	R. P. Smith.....	" " " " " "	120 00
771	"	A. C. Burnham.....	" " " " " "	80 00
772	"	Helen E. Butterfield.....	" " " " " "	75 00
773	"	Fred. A. Sager.....	" " " " " "	85 00
774	"	Ella H. Morrison.....	" " " " " "	70 00
775	"	Robt. A. Wood.....	" " " " " "	80 00
776	"	Oscar Quick.....	" " " " " "	75 00
777	"	G. A. Goodenough.....	" " " " " "	75 00
778	"	Chas. A. Gunn.....	" " " " " "	85 00
779	"	A. H. White.....	" " " " " "	80 00
780	"	G. W. McCluer.....	" " " " " "	15 00
781	"	Edward J. Lake.....	" " " " " "	60 00
782	"	Chas. F. Hottes.....	" " " " " "	60 00
783	"	M. S. Ketchum.....	" " " " " "	70 00
784	"	J. G. Mosier.....	" " " " " "	70 00
785	"	R. C. Vial.....	" " " " " "	70 00
786	"	Geo. A. Huff.....	" " " " " "	50 00
787	"	Elinor Ellsworth.....	" " " " " "	50 00
788	"	Paul Chipman.....	" " " " " "	70 00
789	"	C. B. Clark.....	" " " " " "	80 00
790	"	A. R. Curtiss.....	" " " " " "	80 00
791	"	Henry Jones.....	" " " " " "	60 00
792	"	Burton E. Moore.....	" " " " " "	80 00
793	"	J. H. Wilson.....	" " " " " "	50 00
794	"	Edward G. Howe.....	" " " " " "	150 00
795	"	N. A. Weston.....	" " " " " "	90 00
796	"	L. A. Clendenin.....	" " " " " "	65 00
797	"	Chas. N. Cole.....	" " " " " "	75 00
798	"	R. S. Douglass.....	" " " " " "	75 00
799	"	Wm. L. Steele.....	" " " " " "	30 00
800	"	Marion Thompson.....	" " " " " "	40 00
801	"	Robt. K. Porter.....	" " " " " "	10 00
802	"	W. L. Pillsbury.....	" " " " " "	116 66
803	"	Geo. W. Graham.....	" " " " " "	100 00
804	"	A. B. Baker.....	" " " " " "	41 66
805	"	M. F. Lindsey.....	" " " " " "	35 00
806	"	I. H. Allen.....	" " " " " "	35 00
807	"	F. J. Foote.....	" " " " " "	75 00
808	"	Albert R. Lee.....	" " " " " "	20 00
809	"	Lillie Heath.....	" " " " " "	60 00
810	"	Sue W. Ford.....	" " " " " "	50 00
811	"	L. A. Boice.....	" " " " " "	50 00
812	"	W. R. Hoffman.....	" " " " " "	35 00
813	"	J. J. Johnson.....	" " " " " "	30 00
814	"	L. G. Lathrop.....	" " " " " "	30 00
815	"	J. M. Snyder.....	" " " " " "	35 00
816	"	A. S. Golden.....	" " " " " "	30 00
817	"	J. G. Maynard.....	" " " " " "	30 00
818	"	Philip Schwehm.....	" " " " " "	25 00
819	"	J. Morrow.....	" " " " " "	70 00
820	"	E. W. Justus.....	" " " " " "	50 00
821	"	C. B. Ewalt.....	" " " " " "	15 00
822	"	John Mayer.....	" " " " " "	20 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
823	Dec. 31	Harlen Scott	Salary for December, 1895	\$10 00
824	"	Adolph Hempel	"	60 00
825	"	C. A. Kofoid	"	100 00
826	"	Mary J. Snyder	"	62 50
827	"	Chas. N. Hart	"	62 50
828	"	W. G. Johnson	"	100 00
829	"	B. M. Duggar	"	83 33
830	"	H. C. Forbes	"	83 33
831	"	S. H. Chadbourne	Conrad	1 54
832	"	Edwards & Docker Co.	American Naturalist	4 00
833	"	E. T. Cresson	Subscription	4 00
834	"	Bausch & Lomb Optical Co.	Apparatus	8 43
835	"	R. S. Wilber	Drayage	7 80
836	"	Chas. T. Wilder	Making lantern slides	98 58
837	"	The Gazette	Paper	1 95
838	"	The Typewriter Exchange	Ribbon and spring	1 10
839	"	Mitchell Bros. Co.	American Miller	2 00
840	"	The Harris Publishing Co.	Fishes of N. A.	3 00
841	"	J. Manz & Co.	Cuts	41 20
842	"	Richards & Co.	Apparatus and supplies	143 56
843	"	Smith & Powell Co.	Holstein stock	275 00
844	"	W. J. Fraser	Freight and expenses	74 70
845	"	Central Electric Co.	Supplies	19 87
846	"	Petty & Sayers	Cabinet	24 50
847	"	J. Carbutt	Dry plates	76 91
848	"	Walmsley Fuller & Co.	Glass	2 10
849	"	Buffalo Forge Co.	Forge blowers, etc.	197 14
850	"	E. E. Dunlap	Blue-prints	29 58
851	"	N. W. Graham	Expenses	12 60
852	"	Lydia M. Hart	Drawings	10 20
853	"	F. L. Bills	Postage	30 00
854	"	W. R. Howe	Drayage	67 66
855	"	Isaac Fielding	Stamps	10 00
856	"	Mayme Hill	Part salary, fall term, 1895	14 00
857	"	H. E. Sperry	Insurance	23 65
858	"	Katharine Merrill	Expenses	1 50
859	"	Champaign Supply Co.	Pipe, fittings, etc.	163 50
860	"	Maltby & Wallace Co.	Iron, sand, etc.	171 54
861	"	Eugene Davenport	Expenses	17 63
862	"	Public School Publishing Co.	Advertising	2 00
863	"	Chas. T. Mills	"	20 00
864	"	Engineering News Pub. Co.	"	6 88
865	"	Mittendorf & Kiler	Chairs, mirrors, etc.	42 52
866	"	Chas. A. Strelinger Co.	Hardware	61 06
867	"	Jones & Laughlins	Steel	24 32
868	"	Robinson & Burr	Castings	6 38
869	"	Champaign County Printing Co.	Printing	2 50
870	"	J. Hamilton & Son	Lumber	91 70
871	"	Lyon & Healy	Music	8 50
872	"	W. L. Steele	Expenses	1 90
873	"	Wm. Price	Oil and labor	1 83
874	"	Watson Faulkner	Paints, etc.	21 95
875	"	J. M. Chase	Painting, etc.	14 30
876	"	A. C. McClurg & Co.	Books, etc.	110 70
877	"	G. E. Stechert	Books	94 20
878	"	Stanley Electric Mfg. Co.	Sections of condensers	31 50
879	"	Hanson & Van Winkle Co.	Brass	3 05
880	"	Spridel & Roeper	Traveling crane	190 00
881	"	R. Herbst	Ribbon for typewriter	3 50
882	"	The Hohmann & Mauer Mfg. Co.	Repairs	2 50
883	"	Standard Oil Co.	Oil	11 36
884	"	J. R. Greenhalgh	Crockery	1 70
885	"	Ch. & Urbana Phoenix Tel. Co.	Service to March 15, 1895, 3 months	40 50
886	"	Walker & Mulliken	Baskets, etc.	1 15
887	"	J. O. Cunningham	Legal services	20 00
888	"	Cunningham & Boggs	"	35 00
889	"	Sheldon Brick Co.	Sand and cement	4 75
890	"	G. W. Hoffman	Polish powder	2 25
891	"	Lawton & Co.	Duplicator	6 38
892	"	U. & C. Electrical St. Ry. Co.	Gas to November 23, 1895	293 62
893	"	Mathilde Wergeland	Lectures	40 00
894	"	S. W. Shattuck	Petty expenses	1 72
895	"	Bevis & Co.	Brick foundation	51 75
896	"	Louis N. Wilson	American Journal of Psychology	5 00
897	"	H. Swannell	Glass tubes, etc.	10 00
898	"	Science	Subscription	5 00
899	"	Miles Newberry	Labor	3 00
900	"	J. A. Schulte	Whistle valve, etc.	2 65

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
901	Jan. 15	N. W. Graham.....	Expenses.....	\$16 22
902	"	R. P. Morgan.....	".....	75 01
903	"	Isaac S. Raymond.....	".....	3 75
904	"	J. E. Armstrong.....	".....	10 00
905	"	E. H. Rennert Bro.....	Carriage hire.....	3 00
906	"	The Doane House.....	Hotel bill.....	3 00
907	"	W. W. Sayers.....	Draughting.....	13 42
908	"	W. R. Howe.....	Drayage and grading.....	185 18
909	"	T. R. Leal.....	Sand and grading.....	134 70
910	"	C. V. Millar.....	Salary, December, 1895.....	60 00
911	"	Emma Seibert.....	Assistance in drawing.....	23 00
912	"	F. F. Frederick.....	Expenses.....	4 80
913	"	Lydia M. Hart.....	Drawings.....	12 95
914	"	S. A. Forbes.....	Expenses.....	26 62
915	"	C. A. Kofoid.....	".....	42 45
916	"	Bevis & Co.....	On contract.....	321 73
917	"	Bevis & Co.....	".....	1,500 00
918	"	A. N. Talbot.....	Expenses.....	2 93
919	"	P. E. Taintor.....	Cement walks, etc.....	272 27
920	"	A. Barr.....	Grading.....	37 37
921	"	Hamilton & Russell.....	Pulley and cylinders.....	3 60
922	"	Maltby & Wallace Co.....	Shop supplies.....	35 23
923	"	Champaign Supply Co.....	Pipe, fittings, and sewer pipe.....	160 98
924	"	J. G. Alexander Mfg. Co.....	Draughting table.....	26 25
925	"	Midart Patent Pulley Co.....	Machine shop fittings.....	94 47
926	"	The Billings & Spencer Co.....	Belt clamps.....	11 70
927	"	J. Hamilton & Son.....	Lumber.....	98 74
928	"	Chas. A. Strelinger & Co.....	Shop supplies.....	13 87
929	"	<i>The Gazette</i> .....	Printing.....	17 15
930	"	A. B. Seymour.....	Plants for herbarium.....	39 30
931	"	Chapman Bros.....	Papering.....	4 00
932	"	Bausch & Lomb Optical Co.....	Camera, microscope, etc.....	138 73
933	"	Rochester Optical Co.....	Photo supplies.....	82 12
934	"	Office Specialty Mfg. Co.....	File cases, etc.....	8 45
935	"	J. M. Schilling.....	Oil, etc.....	5 80
936	"	Richards & Co.....	Lab. apparatus and supplies.....	13 41
937	"	Pantagraph Print'g & Sta'y Co.....	Printing and binding.....	40 85
938	"	Frank Minnis Co.....	Microtone.....	2 80
939	"	V. W. Shuck.....	Hardware.....	4 25
940	"	C. A. Besore.....	Lumber.....	38 23
941	"	Patrick & Carter Co.....	Electric apparatus.....	7 84
942	"	Union Mfg. Co.....	Water 3 months to March 31, 1895.....	125 00
943	"	Wm. Sim Drug Co.....	Curtains, etc.....	5 24
944	"	R. S. Wilber.....	Drayage.....	26 25
945	"	Kariher Grocery Co.....	Jars, soap, etc.....	9 85
946	"	Standard Oil Co.....	Oil.....	37 58
947	"	Goes Lithographing Co.....	Books of warrants.....	21 00
948	"	D. H. Lloyd & Son.....	Carbon paper, etc.....	4 25
949	"	Am. Arch't & Bldg News Co.....	Subscription.....	25 00
950	"	Lord & Burnham Co.....	On contract.....	150 00
951	"	Sheldon Brick Co.....	Sand and brick.....	78 50
952	"	Pottsville Iron & Steel Co.....	Deck beams.....	100 80
953	"	C. L. Strobel.....	Machine shop contract.....	2,042 86
954	"	Bevis & Co.....	Barn contract.....	1,099 50
955	"	Riehle Bros. Test Mach. Co.....	Repairs.....	2 00
956	"	Jones & Laughlins.....	Steel pulleys, etc.....	10 79
957	"	U. & C. Electric Street Ry. Co.....	Gas 1 month, December 23, 1895.....	117 76
958	"	DuQuoin Union Coal Co.....	Coal.....	1,264 79
959	"	I. O. Baker.....	Expenses.....	6 20
960	"	Central Union Telegraph Co.....	Services 3 months to March 3, 1896.....	12 50
961	"	Frank Smith.....	Expenses.....	8 80
962	"	Bert G. Wilder.....	Lecture and expenses.....	127 00
963	"	Lorado Taft.....	".....	92 00
964	"	J. L. Sammis.....	Assstance in Chemical Laboratory.....	10 10
965	"	W. C. Brenke.....	".....	10 05
966	"	Florence B. Clarke.....	".....	9 30
967	"	Harry Keeler.....	".....	9 45
968	"	W. F. Marker.....	Clerical work.....	32 96
969	"	M. A. Reasoner.....	Care of hat room.....	15 00
970	"	W. W. Beach.....	Drawings for barn.....	7 65
971	"	H. O. Woodworth.....	Work in botanical department.....	28 20
972	"	Josephine Skeham.....	".....	12 50
973	"	Georgia E. Hopper.....	Work in library.....	12 19
974	"	Payroll of men, Dec., 1895.....	Labor.....	430 10
975	"	Payroll of students, Dec., 1895.....	".....	293 95
976	"	A. C. McClurg & Co.....	Books.....	136 29
977	"	G. E. Stechert.....	".....	153 88
978	"	H. G. Hottes.....	For <i>Technograph</i> .....	100 00



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
979	1896.			
980	Jan. 15	W. I. Lundy.....	Advertising.....	88 33
981	"	The Schumacher Gym. Co.....	Apparatus.....	48 20
982	"	J. C. Hurd.....	Repairing and plastering.....	15 00
983	"	Eugene Dietzgen Co.....	Drawing material.....	23 28
984	"	H. Mueller Mfg. Co.....	Cast brass.....	9 92
985	"	Bausch & Lomb Optical Co.....	Microscopes, etc.....	243 00
986	"	W. Faulkner.....	Oils, etc.....	3 35
987	"	Chas. A. Scheimer Co.....	Cement.....	2 10
988	"	General Electric Co.....	Armatures.....	55 00
989	"	Vermont Farm Machine Co.....	Babcock tester.....	16 67
990	"	Creamery Packg. Mfg. Co.....	Dairy apparatus and supplies.....	61 40
991	"	Henry Heil Chemical Co.....	Forceps, blow pipes, etc.....	16 90
992	"	W. A. Harris & Son.....	Shorthorn calf.....	180 00
993	"	W. J. Fraser.....	Expenses.....	34 95
994	"	Western Union Telegraph Co.....	Telegrams.....	10 68
995	"	J. T. Wolcott.....	Expenses.....	9 55
996	"	Isaac Fielding.....	Postage.....	20 00
997	"	F. L. Bills.....	.....	26 25
998	"	Mayme A. Hill.....	Playing piano.....	14 00
999	"	J. W. Hill.....	Expenses.....	14 00
1000	"	S. D. Kinnear.....	Carpenter work.....	8 00
1001	Jan. 31	T. R. Leal.....	Grading.....	137 54
1002	"	A. S. Draper.....	Salary for January, 1896.....	583 33
1003	"	T. J. Burrill.....	.....	225 00
1004	"	S. W. Shattuck.....	.....	166 66
1005	"	E. Snyder.....	.....	166 66
1006	"	N. C. Ricker.....	.....	191 66
1007	"	I. O. Baker.....	.....	183 33
1008	"	S. A. Forbes.....	.....	83 33
1009	"	C. W. Rolfe.....	.....	175 00
1010	"	D. McIntosh.....	.....	150 00
1011	"	A. N. Talbot.....	.....	175 00
1012	"	A. W. Palmer.....	.....	175 00
1013	"	F. F. Frederick.....	.....	158 33
1014	"	S. W. Parr.....	.....	175 00
1015	"	H. J. Barton.....	.....	166 66
1016	"	Chas. M. Moss.....	.....	175 00
1017	"	D. K. Dodge.....	.....	166 66
1018	"	L. P. Breckenridge.....	.....	166 66
1019	"	David Kinley.....	.....	187 50
1020	"	Eugene Davenport.....	.....	87 50
1021	"	Arnold Tompkins.....	.....	150 00
1022	"	E. J. Townsend.....	.....	137 90
1023	"	H. E. Summers.....	.....	137 50
1024	"	E. B. Greene.....	.....	133 33
1025	"	Katharine Merrill.....	.....	108 33
1026	"	W. O. Krohn.....	.....	150 00
1027	"	James M. White.....	.....	125 00
1028	"	W. H. Van Dervoort.....	.....	137 50
1029	"	W. D. Pence.....	.....	116 66
1030	"	A. H. Daniels.....	.....	100 00
1031	"	H. S. Grindley.....	.....	87 50
1032	"	T. A. Clark.....	.....	108 33
1033	"	H. S. Piatt.....	.....	83 33
1034	"	B. V. Swenson.....	.....	91 66
1035	"	Geo. D. Fairfield.....	.....	83 33
1036	"	Chas. W. Tooke.....	.....	83 33
1037	"	Percy F. Bicknell.....	.....	129 16
1038	"	Henry H. Everett.....	.....	100 00
1039	"	Walter H. Jones.....	.....	58 33
1040	"	William Esty.....	.....	65 00
1041	"	Fred A. Sager.....	.....	105 00
1042	"	G. D. Hammond.....	.....	83 33
1043	"	C. D. McLane.....	.....	110 00
1044	"	W. E. Sandford.....	.....	80 00
1045	"	J. D. Phillips.....	.....	85 00
1046	"	Frank Smith.....	.....	120 00
1047	"	R. P. Smith.....	.....	120 00
1048	"	A. C. Burnham.....	.....	80 00
1049	"	Helen E. Butterfield.....	.....	75 00
1050	"	Ella H. Morrison.....	.....	70 00
1051	"	Robt. A. Wood.....	.....	80 00
1052	"	Oscar Quick.....	.....	75 00
1053	"	G. A. Goodenough.....	.....	75 00
1054	"	Chas. A. Gunn.....	.....	85 00
1055	"	A. H. White.....	.....	80 00
1056	"	G. W. McCluer.....	.....	15 00
1057	"	Edward J. Lake.....	.....	60 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1895.			
1057	Jan. 31	Chas. F. Hottes.....	Salary for January, 1896.....	\$60 00
1058	"	M. S. Ketchum.....	"	70 00
1059	"	J. G. Mosier.....	"	70 00
1060	"	R. C. Vial.....	"	70 00
1061	"	Geo. A. Huff.....	"	50 00
1062	"	Paul Chipman.....	"	70 00
1063	"	C. B. Clark.....	"	80 00
1064	"	A. R. Curtiss.....	"	80 00
1065	"	Henry Jones.....	"	60 00
1066	"	Burton E. Moore.....	"	80 00
1067	"	J. H. Wilson.....	"	50 00
1068	"	E. G. Howe.....	"	150 00
1069	"	N. A. Weston.....	"	90 00
1070	"	Lillie A. Clendenin.....	"	65 00
1071	"	Chas. N. Cole.....	"	75 00
1072	"	R. S. Douglass.....	"	75 00
1073	"	Wm. L. Steele.....	"	30 00
1074	"	Marion Thompson.....	"	40 00
1075	"	Robert K. Porter.....	"	10 00
1076	"	Arthur Leroy Almy.....	"	46 00
1077	"	Geo. W. Graham.....	"	160 00
1078	"	A. B. Baker.....	"	41 66
1079	"	M. T. Lindsey.....	"	35 00
1080	"	I. H. Allen.....	"	35 00
1081	"	F. J. Foote.....	"	75 00
1082	"	Lillie Heath.....	"	60 00
1083	"	Sue W. Ford.....	"	50 00
1084	"	L. A. Bolce.....	"	50 00
1085	"	Albert R. Lee.....	"	20 00
1086	"	W. R. Hoffman.....	"	35 00
1087	"	J. M. Snyder.....	"	35 00
1088	"	L. G. Lathrop.....	"	30 00
1089	"	J. G. Maynard.....	"	15 00
1090	"	A. S. Golden.....	"	30 00
1091	"	Philip Schwehm.....	"	25 00
1092	"	M. A. Reasoner.....	Care of hat room.....	20 00
1093	"	John Mayer.....	Salary for January, 1896.....	20 00
1094	"	C. V. Miller.....	"	60 00
1095	"	Mary J. Snyder.....	"	62 50
1096	"	C. A. Hart.....	"	62 50
1097	"	W. G. Johnson.....	"	100 00
1098	"	B. M. Duggar.....	"	13 33
1099	"	H. C. Forbes.....	"	13 33
1100	"	C. A. Kofoid.....	"	160 00
1101	"	Adolph Hempel.....	"	60 00
1102	"	Adeline W. Rowley.....	"	10 00
1103	"	Miles Newberry.....	Work.....	2 00
1104	"	B. M. Duggar.....	Expenses.....	1 25
1105	"	G. C. Willis.....	Flannel and cotton.....	1 30
1106	"	Kean & DeLang.....	Copy book.....	2 50
1107	"	C. E. Van Orstrand.....	Work.....	7 50
1108	"	L. S. Foster.....	Subscription to "Auk," 1896.....	3 00
1109	"	Chas. T. Wilder.....	Negatives.....	1 50
1110	"	R. Friedlander & Son.....	Books.....	223 60
1111	"	Bernard Quaritch.....	"	52 67
1112	"	Mayer & Miller.....	"	5 40
1113	"	C. A. Hart.....	Expenses.....	13 12
1114	"	G. E. McHose.....	Skiff, oars, etc.....	21 00
1115	"	B. F. Gump.....	Cloth.....	24 48
1116	"	E. H. Sargent Co.....	Bottles, corks.....	16 25
1117	"	B. Zelle.....	Office rent, etc.....	20 55
1118	"	G. E. McHose.....	Drayage, care of boat.....	14 00
1119	"	Bausch & Lomb Optical Co.....	Lenses.....	118 08
1120	"	F. A. Holbrook, assignee.....	Chairs, cases, etc.....	58 64
1121	"	Electric Light and Power Co.....	Motor power, December 1895.....	40 00
1122	"	Link Belt Machinery Co.....	Material for rope drive.....	146 54
1123	"	Soule Photograph Co.....	Boxes for slides.....	31 25
1124	"	Queen & Co.....	Condensing lens.....	4 75
1125	"	J. B. Colt & Co.....	Automatic clock.....	48 00
1126	"	Bevis & Co.....	Contract for President's House.....	3,000 00
1127	"	J. C. Chapman & Son.....	Painting on new shop.....	44 90
1128	"	Wm. Glascock.....	Earth filling, new shop.....	8 60
1129	"	W. R. Howe.....	Earth filling, new shop.....	8 60
1130	"	E. B. Forbes.....	Work in zoological department.....	6 30
1131	"	Geo. Pitman.....	Manure.....	1 25
1132	"	E. H. Reinher & Bro.....	Carriage hire.....	1 00
1133	"	Robinson & Burr.....	Plumbing, etc.....	163 20

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
1134	Jan. 31	Petty & Sayers .....	Furniture, etc .....	\$139 70
1135	"	Maltby & Wallace Co .....	Hangers, castings, etc .....	142 40
1136	"	Champaign Supply Co .....	Pipe, fittings, and repairs .....	124 05
1137	"	Union Brick & Tile Co .....	Tile .....	16 95
1138	"	A. C. McClurg & Co .....	Books .....	63 99
1139	"	Orr & Lockett Hardware Co .....	Hardware .....	14 34
1140	"	Sheldon Brick Co .....	Sand and brick .....	25 75
1141	"	Urbana Brick Co .....	Labor .....	2 78
1142	"	Hamilton & Russell .....	Pipe, etc .....	17 70
1143	"	Fraser & Chalmers .....	Bucking plates and hammers .....	30 00
1144	"	Whitall, Tatum & Co .....	Vials and corks .....	9 56
1145	"	W. T. Falconer Mfg. Co .....	Blocks .....	20 25
1146	"	G. C. Willis .....	Toweling, muslin, etc .....	19 98
1147	"	Champaign Co. Herald .....	Printing, etc .....	108 25
1148	"	L. V. Manspeaker .....	Jars, etc .....	5 15
1149	"	Rait & Henderson Co .....	Subscription .....	3 50
1150	"	Henry Trevett .....	Hardware .....	71 00
1151	"	W. L. Pillsbury .....	Salary for January, 1896 .....	116 66
1152	"	J. Morrow .....	" .....	70 00
1153	"	E. W. Justus .....	" .....	50 00
1154	"	C. B. Ewalt .....	" .....	15 00
1155	"	Chas. M. Paul .....	Laboratory material .....	5 32
1156	"	E. H. Sargent & Co .....	Bottles, corks, etc .....	11 15
1157	"	Chas. H. Besly & Co .....	Brass rods, screws, etc .....	10 91
1158	"	J. H. Wood .....	Subscription .....	2 00
1159	"	The Schumacher Gym. Co .....	Apparatus .....	169 85
1160	"	Central Electric Co .....	Wire, etc .....	29 48
1161	"	Chas F. Wilder .....	Photographs .....	1 20
1162	"	Freund & Bernard .....	Music .....	6 20
1163	"	Chicago Music Co .....	" .....	1 87
1164	"	The Henning Music Co .....	" .....	1 46
1165	"	Ward Bros .....	Binding book .....	73 40
1166	"	Pantagraph P'tg & Stat'ry Co .....	Binding books .....	91 00
1167	"	Kirkpatrick Grocery Co .....	Matches, etc .....	4 30
1168	"	Fuller & Fuller Co .....	Acids, etc .....	50 60
1169	"	E. C. Smith .....	Scale and vernier .....	3 50
1170	"	Jas. G. Biddle .....	Supplies .....	2 73
1171	"	Albany Per. Wrap. Paper Co .....	Paper .....	24 00
1172	"	McLean Co. Coal Co .....	Coal .....	64 88
1173	"	The Link Belt Machinery Co .....	Apparatus .....	5 72
1174	"	Hubbard & Sons .....	Plumbing .....	266 89
1175	"	William Price .....	Painting .....	218 00
1176	Feb. 7	Lord & Burnham Co .....	Contract for conservatory .....	1,046 01
1177	"	Bevis & Co .....	Contract for new machine shop .....	1,601 68
1178	"	G. W. Parker & Son .....	Furniture .....	106 13
1179	"	C. Lloyd Morgan .....	Lectures .....	150 00
1180	"	E. H. Renner & Bro .....	Carriage hire .....	3 00
1181	"	Joseph Mackey .....	Manure .....	11 00
1182	"	Henry I. Green .....	Mimeograph work .....	5 00
1183	"	Mayme Hill .....	Salary for January, 1896 .....	14 00
1184	"	Georgia Hopper .....	Work in library .....	22 75
1185	"	Zimmerman & Weinshenk .....	Moving machinery .....	15 00
1186	"	H. J. Barton .....	Expenses .....	24 07
1187	"	W. D. Pence .....	" .....	5 44
1188	"	Arnold Tompkins .....	" .....	13 90
1189	"	A. S. Draper .....	Amount paid for flag .....	14 20
1190	"	W. R. Howe .....	Drayage .....	116 15
1191	"	The DuQuoin Union Coal Co .....	Coal .....	830 45
1192	"	E. Henry .....	Turpentine, oil, etc .....	8 58
1193	"	Central Electric Co .....	Rubber tubing, etc .....	3 33
1194	"	Robinson & Burr .....	Glazed tile and iron pipe .....	37 82
1195	"	B. Fager .....	Labor .....	9 75
1196	"	F. K. Robeson & Bro .....	Cambric and duck .....	32 51
1197	"	V. Shuck .....	Tin work .....	8 00
1198	"	Chas. T. Wilder .....	Lantern slides .....	36 50
1199	"	D. H. Lloyd & Son .....	Stationery, etc .....	35 05
1200	"	Bausch & Lomb Optical Co .....	Apparatus .....	30 09
1201	Feb. 15	Western Union Telegraph Co .....	Telegrams .....	19 15
1202	"	F. L. Bills .....	Postage .....	43 90
1203	"	Lydia M. Hart .....	Drawings .....	14 60
1204	"	Hubbard & Sons .....	Speaking tubes, repairs .....	1 05
1205	"	Lea Bros. & Co .....	Subscription .....	4 00
1206	"	Treas. of Ent. Soc'y of Ontario .....	" .....	1 00
1207	"	E. H. Sargent & Co .....	Bottles and corks .....	3 35
1208	"	J. C. Chapman & Son .....	Hard oil finish .....	7 60
1209	"	R. P. Morgan .....	Expenses .....	25 72
1210	"	T. R. Leal .....	Grading .....	78 12
1211	"	Mida & G. Elliott .....	Copying .....	2 50

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1212	1896.			
1212	Feb. 15	Josephine Skehan.....	Work on herbarium.....	\$13 25
1213	"	George Gayman.....	Leather.....	6 00
1214	"	Richards & Co.....	Laboratory apparatus and supplies	26 03
1215	"	Jones & Laughlins.....	Iron.....	5 78
1216	"	Orr & Lockett Hardware Co.....	Drawer pulls, etc.....	3 00
1217	"	Rice Machinery Co.....	Shaft.....	4 48
1218	"	W. H. Horstmann & Co.....	Flag.....	65 00
1219	"	Public School Publishing Co.....	Advertising.....	12 50
1220	"	W. F. Hardy.....	Seed.....	5 86
1221	"	W. A. Olmsted.....	Microscopes, etc.....	35 74
1222	"	Narragansett Machine Co.....	Hoisting fixture.....	1 50
1223	"	The Keny'n News Post'l Sub.Co	Stamps.....	2 90
1224	"	Bevis & Co.....	Table and drawing desks.....	153 75
1225	"	Bausch & Lomb Optical Co.....	Apparatus.....	235 60
1226	"	William Sellers Co.....	Injector.....	9 75
1227	"	Miller Lock Co.....	Locks.....	133 33
1228	"	Wm. Miesbach & Co.....	Tin work, etc.....	17 70
1229	"	Medart Patent Pulley Co.....	Castings.....	1 84
1230	"	Urbana Brick Co.....	Masonry work.....	27 00
1231	"	Pittsburg Reduction Co.....	Aluminum.....	10 33
1232	"	Watson Faulkner.....	Brushes.....	1 30
1233	"	Odin Coal Co.....	Coal.....	46 00
1234	"	Electric Appliance Co.....	Apparatus.....	4 65
1235	"	Fuller & Fuller Co.....	Acetic acid, etc.....	16 59
1236	"	J. T. Wolcott.....	Typewriting.....	27 01
1237	"	Whitall, Tatum & Co.....	Laboratory supplies.....	17 00
1238	"	Henry Trexett.....	Hardware.....	18 75
1239	"	The Gazette.....	Printing.....	83 50
1240	"	A. C. McClurg & Co.....	Books and stationery.....	96 18
1241	"	H. H. Everett.....	Expenses.....	9 66
1242	"	Isaac Fielding.....	Postage.....	43 00
1243	"	Pacific Express Co.....	Freightage.....	13 40
1244	"	The Stauffer.....	Books.....	12 83
1245	"	J. H. Knowles.....	Books.....	17 66
1246	"	Harlen Scott.....	Messenger for January, 1896.....	10 00
1247	"	American Express Co.....	Freightage.....	39 10
1248	"	W. F. Marker.....	Salary, January, 1896.....	40 00
1249	"	Payroll of men, Jan., 1896.....	Labor.....	452 81
1250	"	Payroll of students, Jan., 1896.....		208 49
1251	Feb. 29	A. S. Draper.....	Salary for February, 1896.....	583 33
1252	"	T. J. Burrill.....	" " " " " " " " " " " "	225 00
1253	"	S. W. Shattuck.....	" " " " " " " " " " " "	166 66
1254	"	E. Snyder.....	" " " " " " " " " " " "	166 66
1255	"	N. C. Ricker.....	" " " " " " " " " " " "	191 66
1256	"	I. O. Baker.....	" " " " " " " " " " " "	183 33
1257	"	S. A. Forbes.....	" " " " " " " " " " " "	83 33
1258	"	C. W. Rolfe.....	" " " " " " " " " " " "	175 00
1259	"	D. McIntosh.....	" " " " " " " " " " " "	150 00
1260	"	A. N. Talbot.....	" " " " " " " " " " " "	175 00
1261	"	A. W. Palmer.....	" " " " " " " " " " " "	175 00
1262	"	F. F. Frederick.....	" " " " " " " " " " " "	158 33
1263	"	S. W. Parr.....	" " " " " " " " " " " "	175 00
1264	"	H. J. Barton.....	" " " " " " " " " " " "	1 6 66
1265	"	Charles M. Moss.....	" " " " " " " " " " " "	175 00
1266	"	D. K. Dodge.....	" " " " " " " " " " " "	166 66
1267	"	L. P. Breckenridge.....	" " " " " " " " " " " "	166 66
1268	"	David Kinley.....	" " " " " " " " " " " "	175 50
1269	"	Eugene Davenport.....	" " " " " " " " " " " "	87 50
1270	"	Arnold Tompkins.....	" " " " " " " " " " " "	150 00
1271	"	E. J. Townsend.....	" " " " " " " " " " " "	137 50
1272	"	H. E. Summers.....	" " " " " " " " " " " "	137 50
1273	"	E. B. Greene.....	" " " " " " " " " " " "	133 33
1274	"	Katharine Merrill.....	" " " " " " " " " " " "	103 33
1275	"	W. O. Krohn.....	" " " " " " " " " " " "	150 00
1276	"	James M. White.....	" " " " " " " " " " " "	125 00
1277	"	W. H. VanDervoort.....	" " " " " " " " " " " "	137 50
1278	"	W. D. Pence.....	" " " " " " " " " " " "	166 66
1279	"	A. H. Daniels.....	" " " " " " " " " " " "	100 00
1280	"	H. S. Grindley.....	" " " " " " " " " " " "	87 20
1281	"	T. A. Clark.....	" " " " " " " " " " " "	108 33
1282	"	H. S. Platt.....	" " " " " " " " " " " "	83 33
1283	"	B. V. Swenson.....	" " " " " " " " " " " "	91 66
1284	"	Geo. D. Fairfield.....	" " " " " " " " " " " "	83 33
1285	"	Chas. W. Tooke.....	" " " " " " " " " " " "	83 33
1286	"	Percy F. Bicknell.....	" " " " " " " " " " " "	129 16
1287	"	H. H. Everett.....	" " " " " " " " " " " "	100 00
1288	"	Walter H. Jones.....	" " " " " " " " " " " "	58 33
1289	"	William Esty.....	" " " " " " " " " " " "	91 66

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1290	Feb. 29	1896.		
1291	"	Fred. A. Sager.....	Salary for February, 1896.....	\$91 66
1292	"	G. D. Hammond.....	" ".....	83 33
1293	"	C. D. McLane.....	" ".....	110 00
1294	"	W. E. Sandford.....	" ".....	80 00
1295	"	J. D. Phillips.....	" ".....	85 00
1296	"	Frank Smith.....	" ".....	120 00
1297	"	R. P. Smith.....	" ".....	120 00
1298	"	A. C. Burnham.....	" ".....	80 00
1299	"	Helen E. Butterfield.....	" ".....	75 00
1300	"	Ella H. Morrison.....	" ".....	70 00
1301	"	Robt. A. Wood.....	" ".....	80 00
1302	"	Oscar Quick.....	" ".....	75 00
1303	"	Geo. A. Goodenough.....	" ".....	75 00
1304	"	Chas. A. Gunn.....	" ".....	85 00
1305	"	A. H. White.....	" ".....	80 00
1306	"	G. W. McCluer.....	" ".....	15 00
1307	"	Edward J. Lake.....	" ".....	60 00
1308	"	Chas. F. Hottes.....	" ".....	60 00
1309	"	M. S. Ketchum.....	" ".....	70 00
1310	"	J. G. Mosier.....	" ".....	70 00
1311	"	R. C. Vial.....	" ".....	70 00
1312	"	Geo. A. Huff.....	" ".....	50 00
1313	"	Paul Chipman.....	" ".....	70 00
1314	"	C. B. Clark.....	" ".....	80 00
1315	"	A. R. Curtiss.....	" ".....	80 00
1316	"	Henry Jones.....	" ".....	60 00
1317	"	Burton E. Moore.....	" ".....	80 00
1318	"	A. LeRoy Almy.....	" ".....	75 00
1319	"	J. H. Wilson.....	" ".....	50 00
1320	"	Edward G. Howe.....	" ".....	150 00
1321	"	N. A. Weston.....	" ".....	90 00
1322	"	Lilly A. Clendenin.....	" ".....	65 00
1323	"	Chas. N. Cole.....	" ".....	75 00
1324	"	R. S. Douglass.....	" ".....	75 00
1325	"	Wm. L. Steele.....	" ".....	30 00
1326	"	Marion Thompson.....	" ".....	40 00
1327	"	Robt. K. Porter.....	" ".....	10 00
1328	"	Geo. W. Graham.....	" ".....	100 00
1329	"	A. B. Baker.....	" ".....	41 66
1330	"	M. F. Lindsey.....	" ".....	35 00
1331	"	I. H. Allen.....	" ".....	35 00
1332	"	F. J. Foote.....	" ".....	75 00
1333	"	Lillie Heath.....	" ".....	60 00
1334	"	Sue W. Ford.....	" ".....	50 00
1335	"	L. A. Boice.....	" ".....	50 00
1336	"	Albert R. Lee.....	" ".....	20 00
1337	"	L. P. Breckenridge.....	Salary for 3 months to date.....	62 50
1338	"	W. L. Pillsbury.....	Salary for February, 1895.....	116 66
1339	"	S. W. Shattuck.....	Salary for 3 months to date.....	150 00
1340	"	S. A. Forbes.....	" ".....	62 50
1341	"	Adeline W. Rowley.....	Salary for February, 1896.....	50 00
1342	"	C. V. Millar.....	" ".....	60 00
1343	"	C. A. Kofoed.....	" ".....	100 00
1344	"	C. E. Van Orstrand.....	Making diagrams.....	1 00
1345	"	Mary J. Snyder.....	Salary for February, 1896.....	62 50
1346	"	W. G. Johnson.....	" ".....	100 00
1347	"	B. M. Duggar.....	" ".....	83 33
1348	"	H. C. Forbes.....	" ".....	83 33
1349	"	C. A. Hart.....	" ".....	62 50
1350	"	Adolph Hempel.....	" ".....	60 00
1351	"	Harlen Scott.....	" ".....	10 00
1352	"	W. R. Hoffman.....	" ".....	35 00
1353	"	L. G. Lathrop.....	" ".....	30 00
1354	"	J. G. Maynard.....	" ".....	30 00
1355	"	A. S. Golden.....	" ".....	30 00
1356	"	Chas. Wheeler.....	" ".....	28 97
1357	"	Philip Schwehm.....	" ".....	25 00
1358	"	J. J. Johnson.....	" ".....	22 75
1359	"	J. Morrow.....	" ".....	70 00
1360	"	E. W. Justus.....	" ".....	50 00
1361	"	Chas. B. Ewalt.....	" ".....	15 00
1362	"	F. C. Beem.....	Publication of <i>Illio</i> .....	100 00
1363	"	C. F. Webber.....	Slate.....	12 78
1364	"	Bates & Guild.....	Subscription.....	5 00
1365	"	The Eng'g News Publishing Co.....	" ".....	5 00
1366	"	Seth Thomas Clock Co.....	Clock.....	75 00
	"	E. H. Sargent Co.....	Vials and corks.....	4 40

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
1367	Feb. 29	G. W. Parker & Son .....	Shelves, tables, etc .....	\$142 90
1368	"	C. C. C. & St. L. R'y Co. ....	Freightage .....	67 21
1369	"	Cambridge Botanical Sup. Co. ..	Apparatus .....	31 75
1370	"	Illinois Central R. R. Co. ....	Freightage .....	73 89
1371	"	McIntosh Bat'y and Optical Co. .	Thermometers .....	9 00
1372	"	Wabash R. R. Co. ....	Freightage .....	8 06
1373	"	W. O. Krohn .....	Expenses .....	25 60
1374	"	G. E. Stechert .....	Books .....	255 70
1375	"	The Western News Co. ....	Periodicals .....	9 75
1376	"	A. N. Talbot .....	Expenses .....	24 71
1377	"	H. J. Barton .....	" .....	4 10
1378	"	C. W. Rolfe .....	" .....	11 20
1379	"	T. A. Clark .....	" .....	22 35
1380	"	C. M. Moss .....	" .....	18 38
1381	"	Malthy & Wallace Co. ....	Pipe, fittings, etc. ....	116 81
1382	"	The Champaign Supply Co. ....	" .....	141 09
1383	"	H. W. Rokker .....	Printing .....	287 00
1384	"	A. A. Beal & Co. ....	Plates .....	7 50
1385	"	J. Manz & Co. ....	Half-tone plates .....	7 10
1386	"	Lemcke & Buechner .....	Flügel's Dictionary .....	4 15
1387	"	Pantagraph Print, and St'y Co. .	Binding and printing .....	4 50
1388	"	E. H. Sargent & Co. ....	Rubber tubing .....	4 32
1389	"	F. L. Bills .....	Postage .....	23 00
1390	"	J. B. Colt & Co. ....	Electric lantern, etc .....	176 00
1391	"	Richard, Kny & Co. ....	Laboratory apparatus and supplies.	13 05
1392	"	J. T. Wolcott .....	Typewriting .....	8 95
1393	"	T. R. Leal .....	Grading .....	86 35
1394	"	Peoria Steam Marble Works .....	Assorted marble and stone .....	11 25
1395	"	Bausch & Lomb Optical Co. ....	Apparatus, etc. ....	26 93
1396	"	F. A. Holbrook, Ass'g. ....	Oak desk .....	26 00
1397	"	Electric Appliance Co. ....	Bells, etc .....	5 40
1398	"	G. E. Stechert .....	Books .....	40 64
1399	"	Globe Furniture Co. ....	Settees, etc. ....	26 40
1400	"	The Gazette .....	Printing .....	25 65
1401	"	American Machinist .....	Subscription, 1896 .....	3 00
1402	"	The Cushman Chuck Co. ....	Apparatus .....	5 00
1403	"	Bevis & Co. ....	Paper racks, etc .....	41 25
1404	"	R. P. Brower .....	Labor .....	3 25
1405	"	Josephine Skehan .....	Work on herbarium .....	15 30
1406	"	Georgia E. Hopper .....	Work in library .....	8 50
1407	"	A. B. Seymour .....	Economic Fungi .....	3 61
1408	"	Hubbard & Sons .....	Hardware .....	5 95
1409	"	Chas. A. Schiern Co. ....	Cement .....	1 40
1410	"	Champaign Co. Herald .....	Printing .....	31 00
1411	"	J. C. Chapman & Son .....	Painting .....	2 40
1412	"	The Ohio Storage Battery Co. .	Cells .....	614 70
1413	"	Park Brothers & Co. ....	Steel .....	14 64
1414	"	E. Henry .....	Brooms, soap, etc. ....	6 48
1415	"	The Eng'g News Publishing Co. .	Advertising .....	6 88
1416	"	The DuQuoin Union Coal Co. ...	Coal .....	305 00
1417	"	The Home Comfort Heating Co. .	Heating new greenhouse .....	117 00
1418	"	C. A. Besore .....	Lumber, etc .....	56 68
1419	"	Bevis & Co. ....	Contract on barn .....	696 05
1420	"	R. S. Wilber .....	Drayage .....	25 00
1421	"	Wm. Price .....	Painting, etc .....	396 99
1422	"	Chemical Dept .....	Chemical supplies .....	7 60
1423	"	Repair shop .....	Labor and material .....	134 94
1424	"	" .....	" .....	150 15
1425	"	Mechanical shop .....	" .....	81 10
1426	March 14	N. W. Graham .....	Expenses to Board meeting .....	22 32
1427	"	J. E. Armstrong .....	" .....	17 91
1428	"	Alex. McLean .....	" .....	31 82
1429	"	I. S. Raymond .....	" .....	12 00
1430	"	R. P. Morgan .....	" .....	42 84
1431	"	S. A. Bullard .....	" .....	17 16
1432	"	S. M. Inglis .....	" .....	23 50
1433	"	W. H. Kiler .....	Prize in debate .....	20 00
1434	"	N. F. Marsh .....	" .....	30 00
1435	"	T. R. Leal .....	Grading .....	84 10
1436	"	Lydia M. Hart .....	Drawings .....	3 10
1437	"	A. Tompkins .....	Expenses .....	17 10
1438	"	Mayme Hill .....	Salary, February, 1896 .....	14 00
1439	"	Albert Lee .....	Car fare .....	2 70
1440	"	S. W. Shattuck .....	Expenses .....	30 6

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
1441	March 14	Mrs. A. B. Baker	Chandelier	\$2
1442	"	Western Union Telegraph Co.	Telegrams	3 84
1443	"	W. R. Howe	Drayage	51 44
1444	"	J. B. Bennett	Labor, brick, etc.	6 85
1445	"	The Tobey Furniture Co.	Chairs	15 00
1446	"	J. T. Wolcott	Typewriting	17 93
1447	"	John Moses	History of Illinois	8 00
1448	"	W. H. Jones	Music	5 10
1449	"	Ricker & White	Architect's services	1,800 00
1450	"	Maltby & Wallace Co.	Heating machine shop	1,118 05
1451	March 16	D. C. Morgan	Lectures	52 00
1452	"	H. S. Piatt	Expenses	19 48
1453	"	White & Walsh	Plumbing	135 72
1454	"	C. N. Clark & Co.	Stone door-sill	6 50
1455	"	McIntosh Baty and Optical Co.	Laboratory apparatus	71 33
1456	"	W. G. Campbell	Work	4 50
1457	"	Emma W. Jackman	Work in laboratory	10 30
1458	"	Robinson & Burr	Repairs	2 25
1459	"	Fuller & Fuller Co.	Acid	4 60
1460	"	Price & Sandford	Acid, ink, etc.	8 80
1461	"	F. K. Robeson & Co.	Basket, etc.	2 98
1462	"	Wm. Price	Shades and hanging	27 65
1463	"	J. R. Greenhalgh	Lamps	1 65
1464	"	Mittendorf & Kiler	Chairs	73 08
1465	"	T. H. Trevett	Hardware	16 72
1466	"	Henry Trevett		23 20
1467	"	G. C. Willis	Crash, etc.	11 86
1468	"	Eichberg & Baer	Pillows	4 76
1469	"	F. L. Bills	Postage	40 00
1470	"	American Express Co.	Expressage	37 23
1471	"	Arnold Tompkins	Expenses	16 69
1472	"	Western Bank Note Eng'g Co.	Diplomas	110 00
1473	"	W. F. Hardy	Grass seed	1 00
1474	"	Payroll of men, Feb., 1896.	Labor	661 27
1475	"	Payroll of students, Feb., 1896.	Labor	106 28
1476	"	<i>The Illini</i>	Copies of <i>Illini</i> and engravings	11 30
1477	"	Bert Fager	Labor	4 50
1478	"	Richards & Co.	Tubes, etc.	1 57
1479	"	Christian F. Grath	Journal N. Y. Ento. Society	2 00
1480	"	Lemcke & Buechner	Cambridge Nat. History	7 01
1481	"	Norton Emery Wheel Co.	Emery wheels	4 00
1482	"	William F. Nye	Oil	2 00
1483	"	E. Henry	Janitor supplies	16 05
1484	"	Maltby & Wallace Co.	Fire-escape, etc.	285 16
1485	"	The Lunkenheimer Co.	Oil cups, etc.	5 90
1486	"	Orr & Lockett Hardware Co.	Hardware	22 43
1487	"	The Power Publishing Co.	Subscription	1 00
1488	"	Engineering-Mechanics	"	2 00
1489	"	The Art Interchange Co.	"	4 00
1490	"	The Engineering Record	"	5 00
1491	"	Metropolitan Electric Co.	Lamps	5 10
1492	"	J. C. Vaughan	Greenhouse stock	5 17
1493	"	The Riley Jewelry Co.	Repairs on clock	2 75
1494	"	Watson Faulkner	Paint	1 60
1495	"	H. H. Everett	Belt, etc.	1 70
1496	"	Agricultural Experim't Station	Excavation, etc.	37 85
1497	"	Trapp & Hocking Decorat'g Co.	Decoration of President's House	471 60
1498	"	James M. White	Architect's services	300 00
1499	"	A. N. Talbot	Supervising pavement	300 00
1500	"	C. A. Gunn	Architect's services	100 00
1501	March 31	A. S. Draper	Salary for March, 1896	583 33
1502	"	T. J. Burrill	"	225 00
1503	"	S. W. Shattuck	"	166 66
1504	"	E. Snyder	"	166 66
1505	"	N. C. Ricker	"	191 66
1506	"	L. O. Baker	"	183 33
1507	"	S. A. Forbes	"	83 33
1508	"	C. W. Rolfe	"	175 00
1509	"	D. McIntosh	"	150 00
1510	"	A. N. Talbot	"	175 00
1511	"	A. W. Palmer	"	175 00
1512	"	F. F. Frederick	"	158 33
1513	"	S. W. Parr	"	175 00
1514	"	H. J. Barton	"	166 66
1515	"	Chas. M. Moss	"	175 00
1516	"	D. K. Dodge	"	166 66
1517	"	L. P. Breckenridge	"	166 66
1518	"	David Kinley	"	187 50

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1519	1896. March 31	Eugene Davenport.....	Salary for March, 1896.....	\$87 50
1520	"	Arnold Tompkins.....	"	150 00
1521	"	E. J. Townsend.....	"	137 50
1522	"	H. E. Summers.....	"	137 50
1523	"	E. B. Greene.....	"	133 33
1524	"	Katharine Merrill.....	"	108 33
1525	"	W. O. Krohn.....	"	150 00
1526	"	James M. White.....	"	125 00
1527	"	W. H. Van Dervoort.....	"	137 50
1528	"	W. D. Pence.....	"	116 66
1529	"	A. H. Daniels.....	"	100 00
1530	"	H. S. Grindley.....	"	87 50
1531	"	T. A. Clark.....	"	108 33
1532	"	H. S. Piatt.....	"	83 33
1533	"	B. V. Swenson.....	"	91 66
1534	"	Geo. D. Fairfield.....	"	83 33
1535	"	Chas. W. Tooke.....	"	83 33
1536	"	Percy F. Bicknell.....	"	129 16
1537	"	Henry H. Everett.....	"	100 00
1538	"	Walter H. Jones.....	"	58 33
1539	"	William Esty.....	"	91 66
1540	"	Fred A. Sager.....	"	91 66
1541	"	G. D. Hammond.....	"	83 33
1542	"	C. D. McLane.....	"	110 00
1543	"	W. E. Sandford.....	"	80 00
1544	"	J. D. Phillips.....	"	85 00
1545	"	Frank Smith.....	"	120 00
1546	"	R. P. Smith.....	"	120 00
1547	"	A. C. Burnham.....	"	80 00
1548	"	Helen E. Butterfield.....	"	75 00
1549	"	Ella H. Morrison.....	"	70 00
1550	"	Adeline W. Rowley.....	"	50 00
1551	"	Robt. A. Wood.....	"	80 00
1552	"	Oscar Quick.....	"	75 00
1553	"	Geo. A. Goodenough.....	"	75 00
1554	"	Chas. A. Gunn.....	"	85 00
1555	"	Alfred H. White.....	"	80 00
1556	"	G. W. McCluer.....	"	15 00
1557	"	Edward J. Lake.....	"	60 00
1558	"	Chas. F. Hottes.....	"	60 00
1559	"	M. S. Ketchum.....	"	70 00
1560	"	J. G. Mosier.....	"	70 00
1561	"	R. C. Vial.....	"	70 00
1562	"	Geo. A. Huff.....	"	50 00
1563	"	Paul Chipman.....	"	70 00
1564	"	C. B. Clark.....	"	80 00
1565	"	A. R. Curtiss.....	"	80 00
1566	"	Henry Jones.....	"	60 00
1567	"	Burton E. Moore.....	"	80 00
1568	"	A. Leroy Almy.....	"	75 00
1569	"	J. W. Wilson.....	"	50 00
1570	"	Edward G. Howe.....	"	150 00
1571	"	N. A. Weston.....	"	90 00
1572	"	L. A. Clendenin.....	"	65 00
1573	"	Chas. N. Cole.....	"	75 00
1574	"	R. S. Douglass.....	"	75 00
1575	"	Wm. L. Steele.....	"	30 00
1576	"	Marion Thompson.....	"	40 00
1577	"	Robt. K. Porter.....	"	10 00
1578	"	Geo. W. Graham.....	"	100 00
1579	"	M. T. Lindsey.....	"	35 00
1580	"	I. H. Allen.....	"	35 00
1581	"	F. J. Foote.....	"	75 00
1582	"	Lillie Heath.....	"	60 00
1583	"	Sue W. Ford.....	"	50 00
1584	"	L. A. Boice.....	"	50 00
1585	"	W. F. Marker.....	"	45 00
1586	"	Albert R. Lee.....	"	20 00
1587	"	W. R. Hoffman.....	"	35 00
1588	"	Chas. Wheeler.....	"	35 00
1589	"	L. G. Lathrop.....	"	30 00
1590	"	J. J. Johnson.....	"	30 00
1591	"	J. G. Manard.....	"	30 00
1592	"	A. S. Golden.....	"	30 00
1593	"	Philip Schwehrm.....	"	25 00
1594	"	J. Morrow.....	"	70 00
1595	"	E. W. Justus.....	"	50 00
1596	"	Chas. B. Ewalt.....	"	15 00



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
1597	March 31	Mary J. Snyder.....	Salary for March, 1896.....	\$62 50
1598	"	W. G. Johnson.....	" ".....	100 00
1599	"	B. M. Duggar.....	" ".....	83 33
1600	"	H. C. Forbes.....	" ".....	83 33
1601	"	Adolph Hempel.....	Salary, March, 1896.....	60 00
1602	"	H. C. Forbes.....	Expenses.....	4 40
1603	"	C. A. Kofoid.....	Salary, March, 1896.....	100 00
1604	"	C. A. Hart.....	" ".....	62 50
1605	"	C. V. Millar.....	" ".....	60 00
1606	"	Harlen Scott.....	" ".....	10 00
1607	"	W. L. Pillsbury.....	" ".....	166 66
1608	"	Henry Trevett.....	Hardware.....	15 25
1609	"	G. C. Willis.....	Crash.....	25 05
1610	"	Fuller & Fuller Co.....	Ammonia.....	3 75
1611	"	Chicago Calcium Light Co.....	Gas.....	6 52
1612	"	Bausch & Lomb Optical Co.....	Lenses.....	9 67
1613	"	J. E. Shepardson.....	Pipe and fittings.....	3 40
1614	"	Hubbard & Sons.....	Iron pipe.....	2 50
1615	"	The New York & Ohio Co.....	Lamps.....	19 50
1616	"	Randolph Brandt.....	Packing material.....	3 10
1617	"	Houghton & Mifflin Co.....	Silva, Vol. 9.....	25 00
1618	"	A. P. Cunningham & Son.....	Paper.....	2 00
1619	"	St. Louis & Big Muddy Coal Co.....	Coal.....	31 53
1620	"	Champaign Supply Co.....	Heating apparatus.....	106 33
1621	"	Maltby & Wallace Co.....	Heating contract.....	380 22
1622	"	Urb. & Ch'm'p'n E. St. R'y Co.....	Gas, from Dec. 23, '95, to Mar. 20, '96.....	550 22
1623	"	A. C. McClurg & Co.....	Books, etc.....	79 94
1624	"	V. W. Shuck.....	Hardware and Labor.....	42 35
1625	"	C. L. Strobel.....	Balance on contract.....	57 65
1626	April 9	H. G. Bruning.....	Cabin boat, etc.....	1,255 00
1627	"	F. L. Bills.....	Postage.....	90 00
1628	"	H. Chester.....	Carriage hire.....	3 00
1629	"	R. P. Morgan.....	Expenses.....	38 57
1630	"	Lucy L. Flower.....	".....	60 80
1631	April 15	Pacific Express Co.....	Freightage.....	25 80
1632	"	J. T. Wolcott.....	Typewriter work.....	11 50
1633	"	American Express Co.....	Freightage.....	36 30
1634	"	J. L. Sammis.....	Assistant, Chemical Laboratory.....	17 10
1635	"	Wabash R. R. Co.....	Freightage.....	6 47
1636	"	Mayme Hill.....	Salary, April, 1896.....	14 00
1637	"	C. C. C. & St. L. R'y Co.....	Freightage.....	61 61
1638	"	Henry Trevett.....	Hardware.....	5 10
1639	"	I. C. R. R. Co.....	Freightage.....	104 47
1640	"	W. L. Pillsbury.....	Expenses.....	9 51
1641	"	W. H. Van Dervoort.....	".....	15 35
1642	"	Arnold Tompkins.....	".....	12 84
1643	"	H. S. Piatt.....	".....	15 65
1644	"	T. A. Clark.....	".....	29 87
1645	"	S. W. Parr.....	".....	16 28
1646	"	Arthur L. Pillsbury.....	Writing diplomas.....	9 35
1647	"	Chas. T. Wilder.....	Making lantern slides.....	35 00
1648	"	Hubbard & Sons.....	Plumbing.....	28 85
1649	"	E. G. Hill & Co.....	Greenhouse stock.....	7 23
1650	"	G. W. Graham.....	Expenses.....	7 66
1651	"	DuQuoin Union Coal Co.....	Coal.....	692 76
1652	"	American Spirits Mfg. Co.....	Alcohol.....	32 08
1653	"	G. C. Willis.....	Toweling, etc.....	35 15
1654	"	Richards & Co.....	Chemical apparatus.....	5 60
1655	"	Goodyear Rubber Co.....	Rubber tubing.....	8 50
1656	"	Fuller & Fuller Co.....	Chemical supplies.....	46 78
1657	"	Robinson & Burr.....	Gas fittings, etc.....	89 14
1658	"	Eimer & Amend.....	Apparatus and supplies.....	70 60
1659	"	Baker & Adamson.....	Filters.....	7 04
1660	"	Whitall, Tatum & Co.....	Chemical supplies.....	9 06
1661	"	A. A. Agr. Col. and Exp. Stat'n.....	Station membership fee, 1895-6.....	10 00
1662	"	C. and Urbana Ph. Tel. Co.....	Services to June 15, 1896.....	45 00
1663	"	Union Mfg. Co.....	Water, 3 months, to July 1, 1896.....	125 00
1664	"	C. & U. Gas Light'g and Fuel Co.....	Laying gas pipe.....	48 50
1665	"	The Babcock & Wilcox Co.....	Arches.....	14 50
1666	"	S. R. Roberts.....	Manual of Conchology.....	6 00
1667	"	Macmillan & Co.....	Subscriptions.....	9 00
1668	"	Alexander Stuart.....	Storage.....	8 00
1669	"	Bert Pager.....	Labor.....	8 25
1670	"	Lydia M. Hart.....	Drawings.....	9 00
1671	"	Western Union Telegraph Co.....	Telegrams.....	13 97

## List of Warrants—Continued.

No.	Date.	To whom.	For what.	Amount.
1672	1896. April . 15	Bausch & Lomb Optical Co .....	Microscope .....	\$45 49
1673	" "	Fraser & Chalmers .....	Apparatus .....	4 00
1674	" "	Peter Gray .....	Paraffin .....	35 00
1675	" "	Richard Kny & Co .....	Microscope, etc .....	59 70
1676	" "	The Western News Co. ....	Subscription .....	6 37
1677	" "	G. E. Stechert .....	Books .....	10 45
1678	" "	R. R. Bowker .....	Am. Literary Index.....	3 68
1679	" "	Estes & Lauriat .....	Books .....	5 25
1680	" "	F. B. Stevens .....	Foundry supplies .....	13 45
1681	" "	Frank E. Fitts Mfg. & Sup. Co.	Waste .....	14 58
1682	" "	Brown & Sharpe Mfg. Co. ....	Gear cutter, etc. ....	10 35
1683	" "	H. I. Greene .....	Type writing .....	21 60
1684	" "	Bevis & Co .....	Lumber and cases .....	11 25
1685	" "	American Steam Gauge Co. ....	Indicator .....	60 00
1686	" "	Flather & Co .....	Lathe handles .....	2 00
1687	" "	Electric Appliance Co. ....	Ammeter, etc .....	54 75
1688	" "	Western Electrical Instru't Co.	Repairs of voltmeter. ....	8 75
1689	" "	Sheldon Brick Co .....	Brick and sand .....	19 00
1690	" "	F. A. Holbrook, Assignee .....	Chairs .....	5 00
1691	" "	Western Electric Co .....	Wire, etc .....	3 65
1692	" "	C. of I. Glee & Mandolin Clubs	Services .....	75 00
1693	" "	C. H. Evans & Co .....	College Directory .....	5 00
1694	" "	<i>Champaign County Herald</i> .....	Envelopes, printing, etc ..	91 50
1695	" "	Urbana Brick Co .....	Brick .....	3 50
1696	" "	The S. Obermayer Co .....	Ladle bowls .....	3 90
1697	" "	<i>The Gazette.</i> .....	Printing, etc .....	8 85
1698	" "	J. B. Bennett .....	Labor, cement, etc .....	45 30
1699	" "	T. R. Leal .....	Drayage and grading .....	3, 678 07
1700	" "	Bevis & Co .....	On contract .....	1 50
1701	" "	New York and Ohio Co .....	Collecting water samples ..	3 50
1702	" "	C. A. Besore .....	Crookes tubes .....	27 85
1703	" "	Champaign County Print'g Co.	Lumber .....	7 25
1704	" "	Price .....	Paints, oils, etc .....	3 85
1705	" "	The Kariher Grocery Co. ....	Oils, etc .....	5 20
1706	" "	The Twin City L. and C. S. Co.	Ice .....	45 00
1707	" "	Jenny Electric Motor Co. ....	Motor .....	13 07
1708	" "	Jones & Laughlins .....	Forgings .....	7 69
1709	" "	Chas. H. Besly Co. ....	Wire cloth, etc .....	11 07
1710	" "	A. E. Foote .....	Geological specimens .....	6 00
1711	" "	C. L. Shear .....	N. Y. Fungi .....	95 30
1712	" "	Richards & Co .....	Apparatus .....	5 25
1713	" "	Knowlton & Bennett .....	Supplies .....	37 35
1714	" "	E. E. Dunlap .....	Blue Prints .....	71 95
1715	" "	I. O. Baker .....	Expenses .....	102 80
1716	" "	W. R. Howe .....	Drayage .....	4 50
1717	" "	Keuffel & Esser Co. ....	Tape .....	25 00
1718	" "	Isaac Fielding .....	Postage .....	16 50
1719	" "	Josephine Skehan .....	Work on herbarium .....	24 00
1720	" "	G. D. Hubbard .....	Instruction .....	2 92
1721	" "	Empire Steam Laundry .....	Washing towels .....	6 58
1722	" "	Mrs. R. C. Krabbe .....	Labor .....	476 17
1723	" "	Payroll of men, March, 1896 ...	Salary for April, 1896....	125 46
1724	" "	Payroll of students, March, 1896		583 33
1725	April . 30	A. S. Draper .....		225 00
1726	" "	T. J. Burrill .....		166 66
1727	" "	S. W. Shattuck .....		166 66
1728	" "	E. Snyder .....		191 66
1729	" "	N. C. Ricker .....		183 33
1730	" "	Ira O. Baker .....		83 33
1731	" "	S. A. Forbes .....		175 00
1732	" "	C. W. Rolfe .....		150 00
1733	" "	D. McIntosh .....		175 00
1734	" "	A. N. Talbot .....		175 00
1735	" "	A. W. Palmer .....		158 33
1736	" "	F. F. Frederick .....		175 00
1737	" "	S. W. Parr .....		166 66
1738	" "	H. J. Barton .....		175 00
1739	" "	Chas. M. Moss .....		166 66
1740	" "	D. K. Dodge .....		166 66
1741	" "	L. P. Breckenridge .....		187 50
1742	" "	David Kinley .....		87 50
1743	" "	Eugene Davenport .....		150 00
1744	" "	Arnold Tompkins .....		137 50
1745	" "	E. J. Townsend .....		137 50
1746	" "	H. E. Summers .....		137 50
1747	" "	E. B. Greene .....		133 33
1748	" "			

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
1749	April 30	Katharine Merrill.....	Salary for April, 1896.....	\$108 33
1750	"	W. G. Krohn.....	"	150 00
1751	"	Jas. M. White.....	"	125 00
1752	"	W. H. VanDervort.....	"	137 50
1753	"	W. D. Pence.....	"	116 66
1754	"	A. H. Daniels.....	"	100 00
1755	"	H. S. Grindley.....	"	87 50
1756	"	T. A. Clark.....	"	108 33
1757	"	H. S. Piatt.....	"	83 33
1758	"	B. V. Swenson.....	"	91 66
1759	"	Geo. D. Fairfield.....	"	83 33
1760	"	Chas. W. Tooke.....	"	83 33
1761	"	Percy F. Bicknell.....	"	129 16
1762	"	Henry H. Everett.....	"	100 00
1763	"	Walter H. Jones.....	"	58 33
1764	"	William Esty.....	"	91 66
1765	"	Fred A. Sager.....	"	91 66
1766	"	G. D. Hammond.....	"	83 33
1767	"	C. D. McLane.....	"	110 00
1768	"	W. E. Sandford.....	"	80 00
1769	"	J. D. Phillips.....	"	85 00
1770	"	Frank Smith.....	"	120 00
1771	"	R. P. Smith.....	"	120 00
1772	"	A. C. Burnham.....	"	80 00
1773	"	Helen E. Butterfield.....	"	75 00
1774	"	Ella H. Morrison.....	"	70 00
1775	"	Adeline W. Rowley.....	"	50 00
1776	"	Robert A. Wood.....	"	80 00
1777	"	Oscar Quick.....	"	75 00
1778	"	Geo. A. Goodenough.....	"	75 00
1779	"	Chas. A. Gunn.....	"	85 00
1780	"	A. H. White.....	"	80 00
1781	"	G. W. McCluer.....	"	15 00
1782	"	Edward J. Lake.....	"	60 00
1783	"	Chas. F. Hottes.....	"	60 00
1784	"	M. S. Ketchum.....	"	70 00
1785	"	J. G. Mosier.....	"	70 00
1786	"	R. C. Vial.....	"	70 00
1787	"	Geo. A. Huff.....	"	50 00
1788	"	Paul Chipman.....	"	70 00
1789	"	C. B. Clark.....	"	80 00
1790	"	A. R. Curtiss.....	"	80 00
1791	"	Henry Jones.....	"	60 00
1792	"	Burton E. Moore.....	"	80 00
1793	"	A. Leroy Almy.....	"	75 00
1794	"	J. H. Wilson.....	"	50 00
1795	"	Edward G. Howe.....	"	150 00
1796	"	N. A. Weston.....	"	90 00
1797	"	L. A. Clendenin.....	"	65 00
1798	"	Chas. N. Cole.....	"	75 00
1799	"	R. S. Douglass.....	"	75 00
1800	"	Wm. L. Steele.....	"	30 00
1801	"	Marion Thompson.....	"	40 00
1802	"	Robert K. Porter.....	"	10 00
1803	"	W. L. Pillsbury.....	"	116 66
1804	"	C. V. Millar.....	"	60 00
1805	"	Geo. W. Graham.....	"	100 00
1806	"	M. T. Lindsey.....	"	35 00
1807	"	I. H. Allen.....	"	35 00
1808	"	F. J. Foote.....	"	75 00
1809	"	Lillie Heath.....	"	60 00
1810	"	Sue W. Ford.....	"	50 00
1811	"	L. A. Boice.....	"	50 00
1812	"	W. F. Marker.....	"	45 00
1813	"	Albert R. Lee.....	"	20 00
1814	"	J. Morrow.....	"	70 00
1815	"	E. W. Justus.....	"	50 00
1816	"	Chas. B. Ewalt.....	"	15 00
1817	"	W. R. Hoffman.....	"	35 00
1818	"	Chas. Wheeler.....	"	35 00
1819	"	L. G. Lathrop.....	"	30 00
1820	"	J. J. Johnson.....	"	30 00
1821	"	A. S. Golden.....	"	30 00
1822	"	Philip Schwehm.....	"	25 00
1823	"	M. A. Reasoner.....	"	22 00
1824	"	J. P. Adolph.....	"	15 00
1825	"	F. F. Frederick.....	Expenses.....	6 20

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
1826	April 30	Mary J. Snyder.....	Salary for April, 1896.....	\$62 50
1827	"	C. A. Hart.....	" ".....	62 50
1828	"	W. G. Johnson.....	" ".....	100 00
1829	"	B. M. Duggar.....	" ".....	83 33
1830	"	H. C. Forbes.....	" ".....	83 33
1831	"	Adolph Hempel.....	" ".....	60 00
1832	"	Harlen Scott.....	" ".....	10 00
1833	"	Champaign County Herald.....	Paper.....	9 78
1834	"	H. C. Forbes.....	Petty expenses.....	5 10
1835	"	Bloomgren Bros. & Co.....	Photographs.....	4 20
1836	"	J. T. Wolcott.....	Stenographic work.....	3 45
1837	"	C. A. Hart.....	Expenses.....	15 04
1838	"	American Express Co.....	Freightage.....	19 30
1839	"	Geo. W. Pitkin & Co.....	Paint.....	30 00
1840	"	The Home Comfort Heat'g Co.....	Plumbing, etc.....	47 39
1841	"	Heller & Toy.....	Drayage.....	3 50
1842	"	Pacific Express Co.....	Freightage.....	16 05
1843	"	E. O. Vaile.....	Advertising.....	10 00
1844	"	Goodyear Rubber Co.....	Rubber tubing.....	5 00
1845	"	I. S. Raymond.....	Expenses to Board meeting.....	6 20
1846	"	N. W. Graham.....	" ".....	14 82
1847	"	Alex McLean.....	" ".....	30 82
1848	"	N. B. Morrison.....	" ".....	50 35
1849	"	J. E. Armstrong.....	" ".....	17 16
1850	"	D. H. Burnham & Co.....	Services and expenses.....	1,000 00
1851	May 15	Ordnance Department U. S. A.....	Military supplies.....	7 35
1852	"	Thomas Berns.....	Drayage.....	2 50
1853	"	E. G. Howe.....	Expenses.....	37 98
1854	"	Ricker & White.....	Architect's fees.....	790 00
1855	"	Herald Publishing Co.....	Advertising.....	2 25
1856	"	The Transcript Co.....	" ".....	4 00
1857	"	The Commercial Gazette Co.....	" ".....	9 00
1858	"	The Chicago Times-Herald.....	" ".....	6 30
1859	"	The Indianapolis Sentinel Co.....	" ".....	4 00
1860	"	The Inter Ocean.....	" ".....	16 20
1861	"	The St. Louis Republic.....	" ".....	9 60
1862	"	The Tribune Co.....	" ".....	14 40
1863	"	The Globe Printing Co.....	" ".....	11 25
1864	"	Illinois State Register.....	" ".....	2 85
1865	"	A. G. Spalding & Bros.....	Tennis nets, etc.....	13 88
1866	"	T. R. Leal.....	Grading, etc.....	112 80
1867	"	Price & Sandford.....	Medicine.....	1 75
1868	"	Mittendorf & Kiler.....	Waste baskets, etc.....	12 05
1869	"	Champaign Supply Co.....	Pipe, fittings, etc.....	317 38
1870	"	Maltby & Wallace Co.....	" ".....	71 37
1871	"	T. H. Trevett.....	Water tank.....	4 39
1872	"	T. H. Castor & Co.....	Books.....	3 60
1873	"	Academy of N. S. of Phila.....	Journal.....	2 50
1874	"	Gustave E. Stechert.....	Books.....	3 00
1875	"	A. C. McClurg Co.....	Books and stationery.....	46 84
1876	"	A. E. Foote.....	Geological specimens.....	38 84
1877	"	G. W. Parker.....	Sink, tank, screws, etc.....	228 06
1878	"	W. I. Lundy.....	Advertising.....	16 67
1879	"	The Illio.....	" ".....	10 00
1880	"	G. N. Carman.....	Membership fee.....	3 00
1881	"	F. L. Bills.....	Postage.....	88 40
1882	"	B. M. Duggar.....	Expenses.....	15 25
1883	"	C. A. Kofoid.....	Salary for April, 1896.....	100 00
1884	"	Lydia M. Hart.....	Drawings.....	3 90
1885	"	Central Union Telephone Co.....	Services, June 30, 1896.....	12 50
1886	"	Isaac Fielding.....	Postage.....	10 00
1887	"	E. Henry.....	Janitor supplies, etc.....	7 71
1888	"	Eimer & Amend.....	Thermometers.....	14 50
1889	"	E. H. Sargent & Co.....	Laboratory supplies.....	2 50
1890	"	Library Bureau.....	Index, etc.....	18 48
1891	"	J. G. Nicolet.....	Red enamel.....	2 75
1892	"	E. O. Vaile.....	Illinois School Directory.....	1 00
1893	"	Albany Perforated Wrapping Paper Co.....	Paper.....	24 00
1894	"	J. R. Greenhalgh.....	Vases, etc.....	2 15
1895	"	Walch & Wyeth.....	Steam pipe covering.....	6 15
1896	"	Electric Appliance Co.....	Electric fixtures.....	20 65
1897	"	Standard Oil Co.....	Oil.....	11 03
1898	"	Fuller & Fuller Co.....	Chemical supplies.....	42 35
1899	"	Twin City Electric Co.....	Lamps.....	4 30
1900	"	Union Brick and Tile Co.....	Tile.....	4 20

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
1901	May 15	Hohmann & Maurer Mfg. Co.	Repairs .....	\$2 00
1902	"	Bevis & Co.	Flooring .....	6 00
1903	"	Locomotive Engineering	Subscription .....	2 00
1904	"	Walker & Co.	Brass grease cups .....	6 79
1905	"	Machinist Supply Co.	Steel beam, etc. ....	7 94
1906	"	<i>Compressed Air</i> .....	Subscription .....	1 00
1907	"	Bausch & Lomb Optical Co.	Boxes, etc. ....	15 08
1908	"	A. Smith & Sons .....	Pin forceps, etc. ....	24 70
1909	"	Richard Kny & Co.	Microtomes .....	106 30
1910	"	Lawton & Co.	Duplicator .....	5 10
1911	"	Yale & Towne Mfg. Co.	Locks and keys .....	4 74
1912	"	Western Electric Co.	Wire .....	1 35
1913	"	Wm. Miebach & Co.	Hardware .....	1 40
1914	"	J. B. Colt & Co.	Carbons .....	2 50
1915	"	Edward Busch .....	Water samples .....	1 00
1916	"	Fauth & Co.	Equatorial .....	425 00
1917	"	Western Union Telegraph Co.	Telegrams .....	8 83
1918	"	S. W. Shattuck .....	Expenses .....	36 39
1919	"	A. W. Palmer .....	" .....	14 16
1920	"	The United States .....	Bayonets .....	4 72
1921	"	D. H. Brush .....	Ordinance stores .....	3 74
1922	"	Mayme A. Hill .....	Salary, March, 1896 ..	14 00
1923	"	Georgia E. Hopper .....	Catalogueing books ..	15 13
1924	"	Payroll of men, April, 1896.	Labor .....	310 15
1925	"	Payroll of students, April, 1896.	" .....	48 97
1926	"	I. O. Baker .....	Expenses .....	16 63
1927	"	W. O. Krohn .....	" .....	31 49
1928	"	P. F. Bicknell .....	Library, expenses .....	7 00
1929	"	Geo. C. Oxer .....	Chinch bug cages .....	3 81
1930	"	W. R. Howe .....	Drayage .....	21 34
1931	"	Public School Publishing Co.	Advertising .....	12 50
1932	"	The Engineering News Pub. Co.	" .....	6 88
1933	"	Walch & Wyeth .....	Magnesia coverings ..	2 46
1934	"	John Booth .....	Wire netting .....	33 80
1935	"	Whitall, Tatum & Co.	Bottles, etc. ....	4 52
1936	"	John Alling & Co.	Hardware .....	2 80
1937	"	Wm. Price .....	Glass and setting .....	8 80
1938	"	Richards & Co.	Centrifuge .....	20 75
1939	"	F. K. Robeson & Co.	Ticking .....	14 85
1940	"	The Riley Jewelry Co.	Gold medal .....	20 00
1941	"	Reading Hardware Co.	Hardware .....	3 80
1942	"	Electric Appliance Co.	Electric apparatus .....	32 00
1943	"	Keuffel & Esser Co.	Level, etc. ....	24 15
1944	"	Jas. B. Clow & Sons .....	Flanges .....	4 20
1945	"	<i>The Illini</i> .....	Advertisement and subscription	256 00
1946	"	C. A. Besore .....	Lumber, etc. ....	27 47
1947	"	Montgomery, Ward & Co.	Apparatus .....	63 47
1948	"	D. H. Lloyd & Son .....	Stationery .....	19 05
1949	"	Keen & DeLang .....	Paper .....	1 00
1950	"	Macmillan & Co.	Books .....	11 85
1951	May 30	A. S. Draper .....	Salary, May, 1895 .....	583 33
1952	"	T. J. Burrill .....	" .....	225 00
1953	"	S. W. Shattuck .....	" .....	166 66
1954	"	Edward Snyder .....	" .....	166 66
1955	"	N. Clifford Ricker .....	" .....	191 66
1956	"	Ira O. Baker .....	" .....	183 33
1957	"	S. A. Forbes .....	" .....	83 33
1958	"	C. W. Rolfe .....	" .....	175 00
1959	"	D. McIntosh .....	" .....	150 00
1960	"	A. N. Talbot .....	" .....	175 00
1961	"	A. W. Palmer .....	" .....	175 00
1962	"	F. F. Frederick .....	" .....	158 33
1963	"	S. W. Parr .....	" .....	175 00
1964	"	H. J. Barton .....	" .....	166 66
1965	"	C. M. Moss .....	" .....	175 00
1966	"	D. K. Dodge .....	" .....	166 66
1967	"	L. P. Breckenridge .....	" .....	166 66
1968	"	David Kinley .....	" .....	187 50
1969	"	Eugene Davenport .....	" .....	87 50
1970	"	Arnold Tompkins .....	" .....	150 00
1971	"	E. J. Townsend .....	" .....	137 50
1972	"	H. E. Summers .....	" .....	137 50
1973	"	E. B. Greene .....	" .....	133 33
1974	"	Katharine Merrill .....	" .....	108 33
1975	"	W. O. Krohn .....	" .....	150 00
1976	"	James M. White .....	" .....	125 00
1977	"	W. H. Vandervoort .....	" .....	137 50

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
1896.				
1896.	May 31	W. D. Pence.....	Salary, May 1896.....	\$116 66
1897	"	A. H. Daniels.....	"	100 00
1898	"	H. S. Grindley.....	"	87 50
1898	"	T. A. Clark.....	"	108 33
1898	"	H. S. Piatt.....	"	83 33
1898	"	B. V. Swenson.....	"	91 66
1898	"	George D. Fairfield.....	"	83 33
1898	"	Charles W. Tooke.....	"	83 33
1898	"	Percy F. Bicknell.....	"	129 16
1897	"	Henry H. Everett.....	"	100 00
1898	"	Walter H. Jones.....	"	58 33
1898	"	William Esty.....	"	91 66
1898	"	Fred A. Sager.....	"	91 66
1899	"	G. D. Hammond.....	"	83 33
1899	"	C. D. McLane.....	"	110 00
1899	"	W. E. Sandford.....	"	80 00
1899	"	J. D. Phillips.....	"	85 00
1899	"	Frank Smith.....	"	120 00
1899	"	R. P. Smith.....	"	120 00
1899	"	A. C. Burnham.....	"	80 00
1898	"	Helen E. Butterfield.....	"	75 00
1899	"	Ella H. Morrison.....	"	70 00
2000	"	Adeline W. Rowley.....	"	50 00
2001	"	Robert A. Wood.....	"	80 00
2002	"	Oscar Quick.....	"	75 00
2003	"	George A. Goodenough.....	"	75 00
2004	"	Charles A. Gunn.....	"	85 00
2005	"	A. H. White.....	"	80 00
2006	"	G. W. McCluer.....	"	15 00
2007	"	Edward J. Lake.....	"	60 00
2008	"	Charles F. Hottes.....	"	60 00
2009	"	M. S. Ketchum.....	"	70 00
2010	"	J. G. Mosier.....	"	70 00
2011	"	R. C. Vial.....	"	70 00
2012	"	George A. Huff.....	"	50 00
2013	"	Paul Chipman.....	"	70 00
2014	"	C. B. Clark.....	"	80 00
2015	"	A. R. Curtiss.....	"	80 00
2016	"	Henry Jones.....	"	60 00
2017	"	Burton E. Moore.....	"	80 00
2018	"	A. Leroy Almy.....	"	75 00
2019	"	J. H. Wilson.....	"	50 00
2020	"	Edward G. Howe.....	"	150 00
2021	"	N. A. Weston.....	"	90 00
2022	"	L. A. Clendenin.....	"	65 00
2023	"	Charles N. Cole.....	"	75 00
2024	"	R. S. Douglass.....	"	75 00
2025	"	Wm. L. Steele.....	"	30 00
2026	"	Marion Thompson.....	"	40 00
2027	"	Robert K. Porter.....	"	10 00
2028	"	W. L. Pillsbury.....	"	116 66
2029	"	C. V. Millar.....	"	60 00
2030	"	George W. Graham.....	"	100 00
2031	"	M. T. Lindsey.....	"	35 00
2032	"	I. H. Allen.....	"	35 00
2033	"	F. J. Foote.....	"	75 00
2034	"	Lillie Heath.....	"	60 00
2035	"	Sue W. Ford.....	"	50 00
2036	"	L. A. Boice.....	"	50 00
2037	"	W. F. Marker.....	"	45 00
2038	"	Albert R. Lee.....	"	20 00
2039	"	J. Morrow.....	"	70 00
2040	"	E. W. Justus.....	"	50 00
2041	"	Charles B. Ewalt.....	"	15 00
2042	"	W. R. Hoffman.....	"	35 00
2043	"	Charles Wheeler.....	"	35 00
2044	"	L. G. Lathrop.....	"	30 00
2045	"	J. J. Johnson.....	"	30 00
2046	"	A. S. Golden.....	"	30 00
2047	"	Philip Schwehm.....	"	25 00
2048	"	M. A. Reasoner.....	"	21 00
2049	"	Peter Adolph.....	"	15 00
2050	"	L. P. Breckenridge.....	Salary, 3 months, to date.....	62 50
2051	"	W. G. Johnson.....	Salary, May, 1896.....	100 00
2052	"	C. A. Kofoid.....	"	100 00
2053	"	H. C. Forbes.....	"	83 33
2054	"	Mary J. Snyder.....	"	62 50

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
2055	May 30	Chas. A. Hart	Salary, May, 1896	\$62 50
2056	"	Adolph Hempel	"	60 00
2057	"	Miles Newberry	"	52 50
2058	"	Harlen Scott	"	10 00
2059	"	E. H. Sargent & Co.	Vials, corks, etc.	2 20
2060	"	F. H. Greene	Military scholarship	22 50
2061	"	H. R. Porter	"	22 50
2062	"	R. K. Porter	"	22 50
2063	"	C. W. Leigh	"	22 50
2064	"	J. H. McKee	"	22 50
2065	"	A. J. Williamson	"	22 50
2066	"	J. E. Row	"	22 50
2067	"	J. E. Trogdon	"	22 50
2068	"	R. P. Brower	"	22 50
2069	"	A. C. Hobart	"	22 50
2070	"	W. M. Vigal	"	22 50
2071	"	Geo. Anderson	"	22 50
2072	"	Percy A. Stone	Band scholarship	22 50
2073	"	A. R. Mann	"	22 50
2074	"	R. W. Dull	"	22 50
2075	"	L. H. Smith	"	22 50
2076	"	Herbert M. Wallace	"	22 50
2077	"	Geo. W. Riley	"	22 50
2078	"	S. W. Shattuck	Salary, 3 months, to date	150 00
2079	"	N. C. Ricker	Services as architect	300 00
2080	"	L. P. Breckenridge	Services as superintendent	125 00
2081	"	C. D. McLane	Services as architect	30 00
2082	"	Mayme Hill	Salary, May, 1896	16 00
2083	"	Isaac Fielding	Postage	25 00
2084	"	F. L. Bills	"	78 83
2085	"	B. M. Duggar	Expenses	1 40
2086	"	T. R. Leal	Grading	47 85
2087	"	Monmouth Pottery Co.	Flower pots	17 80
2088	"	J. C. Vaughan	Grass seed	10 15
2089	"	J. T. Wolcott	Typewriting	2 70
2090	"	Queen & Co.	Thermometers, glass, etc	28 95
2091	"	Metropolitan Electric Co.	Electric supplies	3 38
2092	"	Crosby St'm Gauge & Valve Co.	Gauges	15 00
2093	"	Ward Brothers	Binding	4 90
2094	"	The Cassier Magazine Co.	Magazine	1 00
2095	"	A. P. Cunningham & Son.	Stationery, etc	22 70
2096	"	T. H. Trevett	Hardware	9 73
2097	"	F. Weber Co.	Instruments	11 80
2098	"	Yale & Towne Mfg Co.	Locks, etc	18 13
2099	"	A. E. Foote	Quartz	1 05
2100	"	H. C. Forbes	Expenses	3 55
2101	"	T. R. Leal	Grading walks, etc	52 05
2101	"	Urbana Brick Co.	Brick	15 55
2103	"	Maltby & Wallace Co.	Heating contract, etc	161 43
2104	"	Champaign Supply Co.	Pipe, fittings, etc	147 91
2105	"	R. S. Wilber	Drayage	78 25
2106	"	J. E. Armstrong	Expenses	20 51
2107	"	N. W. Graham	"	18 07
2108	"	R. P. Morgan	"	63 80
2109	"	B. M. Duggar	Salary, May, 1896	83 33
2110	"	G. P. Clinton	Salary, March, April and May, 1896	250 00
2111	"	W. B. Day	Salary, April, and May, 1896	150 00
2112	"	Henry Eulert	"	100 00
2113	"	J. H. Clough	Rent	600 00
2114	"	W. B. Day	Expenses	109 17
2115	"	Chicago Telephone Co.	Services to August 1, 1896	31 25
2116	"	Bevis & Co.	Extras on President's House	401 05
2117	"	E. P. Caproni & Bro	Subjects for art department	103 91
2118	"	R. Uttenweiler	Salary, April and May, expenses	103 83
2119	"	The Gazette	Printing and stationery	330 10
2120	"	Trapp & Hocking Decor. Co.	Picture molding, etc	9 90
2121	"	Petty & Sayers	Desk, etc	151 60
2122	"	D. Appleton & Co.	Books	56 00
2123	"	Geo. W. Southwick Co.	Wire lacing	6 75
2124	"	Diamond Clamp and Flask Co.	Brass castings	9 08
2125	"	Machinist Supply Co.	Twist drill grinder	8 25
2126	June 9	Bevis & Co.	On contract, Observatory	1,074 40
2127	"	Fred Bennett	Expenses	14 36
2128	"	O. C. Horney	"	12 00

*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
2129	June 9	Chas. Small	Copying names	\$2 00
2130		D. Kinley	Expenses	38 78
2131	June 15	J. E. Armstrong		14 00
2132		S. A. Bullard		44 18
2133		N. W. Graham		18 32
2134		Alex. McLean		30 92
2135		I. S. Raymond		8 00
2136		Dr. Julia H. Smith		48 64
2127		W. S. Chaplin	Commencement oration	100 00
2138		Ricker & White	Architect's commission	1,111 30
2139		Chas. W. Leigh	Prize in oratorical contest	20 00
2140		W. H. Kiler		30 00
2141		E. H. Renner & Bro.	Carriage hire and drayage	2 50
2142		Georgia E. Hopper	Catalogueing books	17 50
2143		<i>The Illini</i>	Copies of <i>Illini</i>	60 50
2144		F. L. Bills	Postage	63 50
2145		Isaac Fielding		15 00
2146		C., C. C. & St. L. Ry. Co.	Freightage	42 45
2147		Illinois Central R. R. Co.		19 42
2148		Pacific Express Co.	Expressage	17 30
2149		American Express Co.		27 80
2150		T. R. Leal	Grading	67 20
2151		Lydia M. Hart	Drawings	11 15
2152		R. W. Bracher	Work in laboratory	2 83
2153		W. G. Johnson	Expenses	7 05
2154		H. O. Woodworth	Work in laboratory	9 00
2155		Sarah E. Webster	Typewriting	5 10
2156		F. F. Frederick	Expenses	4 00
2157		H. E. Summers		9 15
2158		W. R. Howe	Drayage	14 42
2159		John Shields		6 07
2160		J. M. White	Photographs	100 00
2161		Cambridge Botanic Supply Co.	Botanical supplies	7 02
2162		Fairbanks Morse & Co.	Scales	12 40
2163		G. W. Parker & Son	Case and stands	38 75
2164		Champaign County Printing Co.	Printing	10 00
2165		W. D. Pence	Surveys made	10 00
2166		Friend & Bernard	Music	5 65
2167		Lyon & Potter Co.	Tuning piano	18 86
2168		Walter H. Jones	Music	2 16
2169		Martin Bibbus	Gravel	20 70
2170		Chas. T. Wilder	Lantern slides	17 50
2171		E. E. Dunlap	Blue prints	30 70
2172		Geo. Allen	Sheep	60 00
2173		Eugene Davenport	Expenses	3 95
2174		Champaign County Herald	Printing	5 25
2175		P. E. Taintor	Cement floors	415 16
2176		Edward Bush	Collecting samples of water	1 00
2177		G. L. English & Co.	Minerals	25 50
2178		Academy Nat. Science of Phil.	Proceedings	5 00
2179		The Werner Co.	Books	10 00
2180		Petty & Sayers	Cases, etc	79 45
2181		A. S. Draper	Expenses	92 17
2182		The Gazette	Printing	84 54
2183		Amelia Powers	Stenographic work	1 50
2184		E. G. Howe	Expenses	15 21
2185		H. C. Forbes		6 56
2186		American Express Co.	Expressage	2 25
2187		R. S. Wilber	Freight and drayage	8 58
2188		E. F. Hartman	Printing, etc	29 15
2189		G. T. Meyer Co.	Window shades	4 20
2190		H. W. Rokker	Printing	49 30
2191		C. W. Johnson	The Nautilus	1 00
2192		Pantagraph P. & S. Co.	Printing, stationery, etc	66 00
2193		B. Zelle	Office rent	10 86
2194		Western Union Telegraph Co.	Telegrams	13 09
2195		G. C. Willis	Muslin, crash, etc	15 75
2196		Racine Boat and Mfg. Co.	Inspection of boat	24 99
2197		B. Zelle	Office rent	6 97
2198		A. C. McClurg & Co.	Books, etc	461 19
2199		Payroll of students May, 1896	Labor	81 35
2200		Payroll of men, May, 1896		491 07
2201	June 30	A. S. Draper	Salary for June, 1896	583 33
2202		T. J. Burrill		220 00
2203		S. W. Shattuck		166 06
2204		Edward Snyder		166 06



*List of Warrants—Continued.*

No.	Date.	To whom.	For what.	Amount.
2205	June 30	N. Clifford Ricker.....	Salary for June, 1896.....	\$191 66
2206	"	Ira O. Baker.....	"	183 33
2207	"	S. A. Forbes.....	"	83 33
2208	"	C. W. Rolfe.....	"	175 00
2209	"	D. McIntosh.....	"	150 00
2210	"	A. N. Talbot.....	"	175 00
2211	"	A. W. Palmer.....	"	175 00
2212	"	F. F. Frederick.....	"	158 33
2213	"	S. W. Parr.....	"	175 00
2214	"	H. J. Barton.....	"	166 66
2215	"	C. M. Moss.....	"	175 00
2216	"	D. K. Dodge.....	"	166 66
2217	"	L. P. Breckenridge.....	"	166 66
2218	"	David Kinley.....	"	187 50
2219	"	Eugene Davenport.....	"	87 50
2220	"	Arnold Tompkins.....	"	150 00
2221	"	E. J. Townsend.....	"	137 50
2222	"	H. E. Summers.....	"	137 50
2223	"	E. B. Greene.....	"	133 33
2224	"	Katharine Merrill.....	"	108 33
2225	"	W. O. Krohn.....	"	150 00
2226	"	James M. White.....	"	125 00
2227	"	W. H. VanDervoort.....	"	137 50
2228	"	W. D. Pence.....	"	116 66
2229	"	A. H. Daniels.....	"	100 00
2230	"	H. S. Grindley.....	"	87 50
2231	"	T. A. Clark.....	"	108 33
2232	"	H. S. Piatt.....	"	83 33
2233	"	B. V. Swenson.....	"	91 66
2234	"	Geo. D. Fairfield.....	"	83 33
2235	"	Chas. W. Tooke.....	"	83 33
2236	"	Percy F. Bicknell.....	"	129 16
2237	"	Henry H. Everett.....	"	100 00
2238	"	Walter H. Jones.....	"	58 33
2239	"	William Esty.....	"	91 66
2240	"	Fred A. Sager.....	"	91 66
2241	"	G. D. Hammond.....	"	83 33
2242	"	C. D. McLane.....	"	110 00
2243	"	W. E. Sandford.....	"	80 00
2244	"	J. D. Phillips.....	"	85 00
2245	"	Frank Smith.....	"	120 00
2246	"	B. P. Smith.....	"	120 00
2247	"	A. C. Burnham.....	"	80 00
2248	"	Helen E. Butterfield.....	"	75 00
2249	"	Ella H. Morrison.....	"	70 00
2250	"	Adeline W. Rowley.....	"	50 00
2251	"	Robert A. Wood.....	"	80 00
2252	"	Oscar Quick.....	"	75 00
2253	"	Geo. A. Goodenough.....	"	75 00
2254	"	Chas. A. Gunn.....	"	85 00
2255	"	A. H. White.....	"	80 00
2256	"	G. W. McCluer.....	"	15 00
2257	"	Edward J. Lake.....	"	60 00
2258	"	Chas. F. Hottes.....	"	60 00
2259	"	M. S. Ketchum.....	"	70 00
2260	"	J. G. Mosier.....	"	70 00
2261	"	R. C. Vial.....	"	70 00
2262	"	Geo. A. Huff.....	"	50 00
2263	"	Paul Chipman.....	"	70 00
2264	"	C. B. Clark.....	"	80 00
2265	"	A. R. Curtiss.....	"	80 00
2266	"	Henry Jones.....	"	60 00
2267	"	Burton E. Moore.....	"	80 00
2268	"	A. Leroy Almy.....	"	37 50
2269	"	J. H. Wilson.....	"	50 00
2270	"	Edward G. Howe.....	"	150 00
2271	"	N. A. Weston.....	"	90 00
2272	"	Lillie A. Clendenin.....	"	65 00
2273	"	Chas. N. Cole.....	"	75 00
2274	"	R. S. Douglass.....	"	75 00
2275	"	Wm. L. Steele.....	"	30 00
2276	"	Marion Thompson.....	"	40 00
2277	"	Robt. K. Porter.....	"	10 00
2278	"	C. V. Miller.....	"	60 00
2279	"	Geo. W. Graham.....	"	100 00
2280	"	M. T. Lindsey.....	"	35 00
2281	"	I. H. Allen.....	"	35 00
2282	"	F. J. Foote.....	"	75 00
2283	"	Lillie Heath.....	"	60 00

*List of Warrants—Concluded.*

No.	Date.	To whom.	For what.	Amount.
	1896.			
2284	June 30	Sue W. Ford.....	Salary for June, 1896.....	50 00
2285	"	L. A. Boice.....	" ".....	50 00
2286	"	W. F. Marker.....	" ".....	45 00
2287	"	Albert R. Lee.....	" ".....	20 00
2288	"	J. Morrow.....	" ".....	35 00
2289	"	E. W. Justus.....	" ".....	25 00
2290	"	Chas. B. Ewalt.....	" ".....	7 50
2291	"	Richard Uttenweiler.....	" ".....	50 00
2292	"	W. R. Hoffman.....	" ".....	35 00
2293	"	Chas. Wheeler.....	" ".....	35 00
2294	"	L. G. Lathrop.....	" ".....	30 00
2295	"	J. J. Johnson.....	" ".....	30 00
2296	"	A. S. Golden.....	" ".....	30 00
2297	"	Philip Schwehm.....	" ".....	25 00
2298	"	W. B. Day.....	" ".....	75 00
2299	"	Henry Eulert.....	" ".....	50 00
2300	"	J. H. Clough.....	Rent for June, 1896.....	300 00
2301	"	T. R. Leal.....	Grading, etc.....	42 85
2302	"	Golden & Kimball.....	Hardware.....	21 69
2303	"	Orr & Lockett Hardware Co.....	".....	14 28
2304	"	Champaign Supply Co.....	Pipe and fittings.....	18 91
2305	"	Maltby & Wallace Co.....	".....	43 76
2306	"	C. A. Besore.....	Lumber.....	79 86
2307	"	Henry Trevelt.....	Hardware.....	6 60
2308	"	Odin Coal Co.....	Coal.....	50 00
2309	"	Hubbard & Sons.....	Lock.....	2 65
2310	"	Lawton & Co.....	Duplicator.....	5 53
2311	"	E. J. Anthony.....	Printing.....	6 00
2312	"	C. W. Spalding.....	Taxes and expenses.....	1,748 45
2313	"	A. W. Palmer.....	Expenses.....	10 06
2314	"	W. L. Pillsbury.....	Salary, June, 1896.....	116 66
2315	"	Bausch & Lomb Optical Co.....	Apparatus.....	33 72
2316	"	W. G. Johnson.....	Expenses.....	6 20
2317	"	G. E. McHose.....	Labor.....	19 00
2318	"	E. H. Sargent & Co.....	Laboratory supplies.....	18 30
2319	"	Justus Pfetzing.....	Chairs, etc.....	29 30
2320	"	Anchor Line Store.....	Life preservers.....	7 45
2321	"	B. F. Gump.....	Bolting cloth.....	1 89
2322	"	F. L. Bills.....	Postage.....	51 00
2323	"	Oscar Bedell.....	Clay and labor.....	8 00
2324	"	J. D. Phillips.....	Lettering diplomas.....	66 00
2325	"	Bevis & Co.....	Contract on Observatory.....	2,510 91
2326	"	A. C. McClurg & Co.....	Books.....	94 95
2327	"	Western News Co.....	Subscription.....	5 40
2328	"	Ward Bros.....	Binding.....	91 70
2329	"	American Contractor.....	Advertising.....	5 40
2330	"	The Smith-Premier Typew'r Co.....	Typewriter.....	57 50
2331	"	James G. Biddle.....	Candles.....	2 71
2332	"	Petty & Sayers.....	Drawing tables.....	119 40
2333	"	Ill. Soc. Eng. and Surveyors.....	Advertising.....	10 00
2334	"	Bevis & Co.....	Stakes.....	2 00
2335	"	Urbana Brick Co.....	Brick.....	94 80
2336	"	Western Bank-note & Engr. Co.....	Diplomas.....	25 00
2337	"	J. T. Cook.....	Photograph.....	1 00
2338	"	Champaign County Printing Co.....	Binding.....	24 00
2339	"	M. Goldsmith.....	Lettering windows.....	8 00
2340	"	G. E. Stechert.....	Books.....	19 12
2341	"	Rait & Henderson Co.....	Natural Science.....	1 89
2342	"	R. Friendlander & Son.....	Books.....	199 40
2343	"	E. B. Forbes.....	Expenses.....	6 90
2344	"	S. A. Forbes.....	".....	71 88
2345	"	C. A. Kufoid.....	Expenses, Biological Station.....	50 00
2346	"	Mary J. Snyder.....	".....	15 38
2347	"	Jas. E. Armstrong.....	".....	14 66
2348	"	N. W. Graham.....	".....	14 32
2349	"	Alex. McLean.....	".....	24 32
2350	"	Julia H. Smith.....	".....	35 76

*Financial Statement of the University of Illinois [not including State Laboratory of Natural History or the Agricultural Experiment Station] for the ten months ending June 30, 1896.*

RECEIPTS, SEPTEMBER 1, 1895—JUNE 30, 1896.		
<i>Balances—</i>		
United States appropriation.....	\$15,720 13	
State appropriations.....	148,200 85	\$163,920 98
<i>From State Appropriations—</i>		
Vaccine Laboratory.....	\$3,000 00	
Library building.....	150,000 00	
Engineering College, furnishing and fitting.....	5,000 00	
Astronomical Observatory .....	10,000 00	168,000 00
<i>From other sources—</i>		
Interest.....	\$11,019 14	
Rents .....	2,259 31	
Fees of University students.....	17,655 50	
Fees of Preparatory students.....	3,264 50	
Gross receipts of departments and laboratories.....	4,894 84	
Sale of land.....	12,800 00	
Miscellaneous .....	576 77	
Overdraft.....	1,237 08	53,707 14
		<u>\$385,628 12</u>
EXPENDITURES, SEPTEMBER 1, 1895—JUNE 30, 1896.		
<i>Of United States Appropriations—</i>		
Architectural department .....	\$29 97	
Salaries for instruction .....	15,690 16	\$15,720 13
<i>Of State Appropriations—</i>		
Erection of Engineering Hall .....	\$420 12	
Furnishing and heating Natural History Hall.....	345 71	
Salaries, buildings, and grounds, and ordinary operating exp..	87,306 84	
Cabinets .....	353 79	
Apparatus and material .....	2,813 81	
Biological Experiment Station, equipment.....	1,704 00	
Biological Experiment Station, expenses .....	1,163 27	
Taxes on Minnesota lands.....	1,600 00	
Paving streets, and laying walks.....	9,210 34	
Astronomical Observatory .....	4,221 67	
Laboratory of Vegetable Physiology .....	1,911 98	
Library Hall.....	5,796 55	
Fire protection .....	1,029 66	
Library .....	2,871 42	
College Engineering.....	18,180 14	
Furnishing and fitting Engineering Hall .....	3,256 15	
Shop practice.....	1,478 49	
Chemical Laboratory, improvements.....	2,356 66	146 020 60
<i>Of other funds—</i>		
Overdraft.....	\$5,725 98	
Board expense.....	1,705 87	
Buildings and grounds .....	531 03	
Fuel and lights .....	4,538 47	
Stationery, postage, and printing .....	1,501 75	
Preparatory school.....	4,572 20	
Gross expenses of departments and laboratories.....	5,695 33	
Incidental .....	1,130 98	
Water supply .....	375 00	
Furniture and fixtures.....	519 45	
Heating apparatus.....	431 96	
President's House.....	17,980 63	
School of Pharmacy.....	1,429 42	
Salaries for instruction and services.....	4,014 51	
Premium and interest on bonds.....	2,758 39	
Miscellaneous .....	796 17	53,707 14
<i>Balance, State Appropriations.....</i>		<u>\$170,180 25</u>
		<u>\$385,628 12</u>

*Financial Statement of the Illinois State Laboratory of Natural History, for the fiscal year ending June 30, 1896.*

RECEIPTS.		
Balance from last report.....	\$271 01	
For field, office, and incidental expenses .....	1,500 00	
For improvement of library .....	1,000 00	
For salaries and assistance .....	3,650 00	
For illustration of State Entomologist's report .....	250 00	
For publication of bulletins .....	500 00	
For investigation of insect disease .....	1,500 00	
For one-half expense of Biological Station of University of Ill....	1,500 00	
EXPENDITURES.		
For field, office, and incidental expenses .....	\$1,500 00	
For improvement of library .....	1,000 00	
For salaries and assistance .....	3,631 96	
For lapse to treasury from appropriation for illustration of State Entomologist's report.....	250 00	
For publication of bulletins .....	500 00	
For investigation of insect disease .....	1,500 00	
For one-half expense of Biological Station of University of Ill....	1,500 00	
Balance .....	289 05	
	\$10,171 01	\$10,171 01

*Financial Statement of the Agricultural Experiment Station, University of Illinois, for the year ending June 30, 1896.*

RECEIPTS.		
Appropriated by Congress .....		\$15,000 00
Balance, other funds.....	\$204 49	
From State Board of Agriculture for analyses of fertilizers.....	140 00	
From Station farm, etc.....	2,904 53	3,249 02
EXPENDITURES.		\$18,249 02
Board expense.....	\$91 06	
Books and publication .....	248 71	
Botanical apparatus.....	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	
Special expenditures on wood durability, and field experiments on the peculiar clay soil found in a part of Southern Illinois.....	224 15	
Farm stock.....	15 00	15,000 00
Other funds .....	\$3,082 74	
Balance, other funds .....	166 28	\$3,249 02
		\$18,249 02

# BIENNIAL REPORT

OF THE

## ILLINOIS STATE LABORATORY

OF

## NATURAL HISTORY

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*To the Trustees of the University of Illinois.*

GENTLEMEN: The operations of the State Laboratory of Natural History during the past two years have been carried successfully forward along the customary lines of investigation, with a notable expansion, under the stimulus of appropriations made by the last legislature, in the study of the contagious diseases of insects and in the work of the Illinois River Biological Experiment Station.

The insect-disease work took during the summer of 1895 the direction of an investigation of the causes of our general failure in field experiments with white muscardine of the chinch-bug, together with an investigation of a newly discovered disease of the common squash-bug. Among additional subjects studied, was a destructive disease of grasshoppers in the West, material for which was obtained from a correspondent in Colorado, and the so-called white plague of the common cabbage worm.

The general result of our studies of the white muscardine has been to discredit still further the practical utility of that disease for field operations on a large scale. In consequence of this outcome very few distributions of infected material have been made from my office during 1896, and those only in response to direct requests from farmers. The material as sent out has been accompanied, as in all my previous sendings, with explicit warning to the effect that no definite reliance was to be placed on it, but that its use was to be regarded as an experiment only. It now seems quite clear, as the general result of all our investigations of this complicated subject, that the circumstances under which artificial field infection of chinch-bugs with the white-muscardine fungus will take practical effect in a way to produce any important benefit are at least so rare and unusual that the whole subject must at present be assigned to the limbo of unverified theories.

A more promising result was obtained from an investigation of a bacterial disease of the common squash-bug, which proved to be highly contagious and

promptly fatal under laboratory conditions closely similar to those obtaining in the field. A laboratory study of this disease, and of the organism characterizing it, was completed by my Assistant in this department, Mr. B. M. Duggar, and his paper on the subject is now going through the press.

During the present season particular attention has been given to a new disease of the army worm, which had the effect to destroy the greater part of the individuals composing an outbreak of this species early in the present year; and to a critical study of occurrences connected with a general disappearance of the chinch-bug, or the marked diminution of its numbers, in regions where it was abundant last year, and where it made a threatening beginning this spring. Careful and systematic studies have been made to determine, so far as practicable, the precise causes of this diminution in numbers in the field, and particularly to ascertain whether contagious diseases, bacterial or other, not hitherto detected were now discoverable. The results have been thus far either negative or incomplete, the death of chinch-bugs being due, so far as observed and determined, either to the direct effect of the weather of the season or to one or both of the two contagious diseases of that insect thus far known to us. Some of our experiments are, however, still incomplete, and certain clues in my possession, when followed out, may possibly lead to other conclusions.

The work of the Biological Experiment Station has made very satisfactory progress under somewhat embarrassing conditions, due especially to insufficiency of funds for the continuous maintenance of our work on the scale originally planned. The equipment fund has all been expended in the building and furnishing of a laboratory boat as a field headquarters and students' laboratory; in the purchase of a launch and in the substitution of more powerful machinery for that originally furnished with it; and in the purchase or manufacture of various pieces of apparatus required for our peculiar work.

Owing to the practical exhaustion of funds, the laboratory boat, established for the summer on Quiver Lake, was brought down to Havana September 1, 1896, and placed, together with the launch, in charge of our general Station assistant, Mr. Newberry, who takes the responsibility of the care and protection of all our Station property during the fall and winter at a salary of \$20 a month. The work of the Station is not, however, completely suspended, the Superintendent, Dr. Kofoid, visiting Havana once a fortnight for the usual systematic round of observations, collections, and other operations, at the various substations in our field.

The Station bills are all paid except a few recently received, in process of payment now and there is a comfortable balance in the appropriations for the current year, beyond those covered by expenditures to which we are committed. In accordance with your authorization at your last meeting I have discontinued Mr. Adolph Hempel's services, simply because it was impossible to continue his salary with our funds, and have engaged Dr. Kofoid as Station Superintendent, at his former salary (\$1,200 a year), to June 30, 1897.

Full particulars concerning the scope of our operations, the amount and character of the work done, the results now ready for report, the papers

completed, and those published or in press, I ask leave to file as a special supplementary report, for general circulation. I should be glad to have your order for a separate print of a thousand copies of this report, with illustrations, to be separately bound in pamphlet form at the expense of the State Laboratory of Natural History. I will only say now, in general, that the conclusions already reached, especially in Dr. Kofoid's department of so-called plankton work, cannot fail to command the close attention and strong interest of scientific men, the world over, engaged in investigations of this class.

The summer opening of the Station to investigating and other independent students resulted in the acceptance of our invitation by twenty-two persons, five of whom were finally prevented from attending. Our accommodations were limited to fifteen workers additional to the Station force, but as the seventeen who arrived did not all present themselves at once, we were able to provide satisfactorily for them. These seventeen visitants represented the states of Ohio, Michigan, Illinois, Iowa, Nebraska, and Utah. Eight were members of college or university faculties; five were teachers of biology in high schools or academies; two were city school superintendents; and two were college students in advanced courses. The colleges and universities represented by them were the Wesleyan University, at Bloomington, Ill.; the Nebraska Wesleyan University; Carthage College, at Carthage, Ill.; Knox College, at Galesburg; Lincoln University, at Lincoln; Eureka College, at Eureka; Cornell College, at Mt. Vernon, Ia.; Drake University, at Des Moines, Ia.; the University of Utah, Salt Lake City; and the University of Illinois. The high schools and academies sending instructors to the Station were University School, Cleveland, O.; Detroit High School, Detroit, Mich.; the Public High School at Dwight, Ill., and the high schools at Havana, Ill., and Marshalltown, Ia.

They were a competent and energetic group of students; a credit to the Station, and in some respects an aid rather than a hindrance to our work. Two of them, Professor Kelly, of Cornell College, Iowa, and Mr. Beardslee, of University School, Cleveland, Ohio, are preparing papers presenting the scientific results of their Station investigations, which they have kindly placed at my disposal for publication in the State Laboratory Bulletin as a part of the series of papers growing out of the Station work. Our summer visitants were, I think without exception, pronounced in their appreciation of the opportunity offered them, and emphatic in their expressions of surprise at the attractiveness of the situation and the richness of the biological field in which the Station is established. Several of them have already filed requests for admission next year.

The success of the "Summer Opening," together with several conversations which I have had with teachers of biology, public school superintendents, and the like, have convinced me that it is incumbent upon us, in any way practicable, to extend this offering of an opportunity for midsummer work to public school teachers of biology, and I have taken some preliminary

steps to that end. As this is purely instructional work, however, it does not fall within the province of the State Laboratory of Natural History, but belongs to the University relationship, and need not be discussed in this report.

The general entomological work of the State Laboratory has been mainly economic in purpose, and as it will be reported by me to the Governor, I do not include it here.

Respectfully submitted.

S. A. FORBES,

*Director of Laboratory.*



# SPECIAL REPORT

## OF THE

# BIOLOGICAL EXPERIMENT STATION.

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*To the Trustees of the University of Illinois.*

GENTLEMEN: The Biological Experiment Station of the University of Illinois was founded mainly to represent the University and the state in an important field of scientific investigation; to do its part towards making the people of the state at large acquainted with the state itself; to stimulate and to aid the educational activities of the public schools in respect to the biological subjects and to reform, in some respects, their methods; and to put a foundation of precise and comprehensive knowledge of the system of aquatic life under the practical art of the fish-culturist, especially as this is represented by the operations of the Fish Commissions of our interior states.

It hardly need be said that an educational institution may not properly assume and keep the name of university which is content to depend wholly on the abilities and activities of others for the store of knowledge which it distributes to its students, contributing nothing on its own part to the common stock. Such a condition of complete dependence marks it as at best a secondary school. It is also beneath the dignity of a sovereign state to depend wholly on others for the fundamental elements of its welfare, making no effort to render any return in kind. On the other hand, a state university owes its first duty to the people of its own state, and should investigate by preference subjects which concern their welfare. Even though it may do valuable work in remoter fields, it neglects its own sphere of essential and immediate usefulness if it lets its own territory remain unexplored, and its own special problems lie without solution.

The teaching of biology has been for many years required in the public schools of Illinois, but it is a commonplace complaint that this work is far less valuable than it should be, and that its progress is grievously hampered because most of our teachers of science have a very imperfect acquaintance with the subject matter which should be taught and with the most fruitful methods of biological instruction. The University of Illinois, through its

Biological Station, can do a great service to education at this juncture by opening up our local natural history to teachers of elementary biology, and by making them acquainted in a thoroughly practical way with the most useful special methods in this field. We seem just now, indeed, in admirable position to lead the way along a new line of progress by helping to bring teacher and pupil, under favorable conditions, into the presence of living nature out of doors, adding to the methods of the class room and the laboratory of biology those of observation, study, and instruction in the field.\*

The art of the fish-culturist is to our waters what the art of agriculture is to our tillable lands. Each was in the beginning purely empirical, resting on a small store of common knowledge gained by the crude experience of the uneducated and the untrained. Agriculture has now been largely placed on a scientific foundation, and vigorous efforts are making all over the civilized world to extend, to deepen, and to render more exact in every direction our acquaintance with the sciences which underlie the practice of this oldest of the arts. The development of fish-culture has, however, lingered far behind that of its companion subject, compared with which it is indeed still in the stage of barbarism. We treat the product of our natural waters with a degree of intelligence and skill scarcely above that which the Indian exhibited in his rude attempts at agriculture before the time of Columbus. Our Biological Station was founded in part with the hope of helping to do for fish-culture what our forty or more agricultural experiment stations are now doing for the agriculture of the United States.

To accomplish these various ends, it was necessary that a subject should be chosen and that a location should be found offering a suitable field for scientific research of a kind to reward the skilled investigator with results of scientific value, and that these results should also interest a larger public than that which is prepared to appreciate and to utilize purely technical work. It was essential that this location should be readily accessible from the University, and that it should be attractive, comfortable, and convenient as a center of operations for visiting investigators and for general and elementary students of our field biology. The purposed relation to fish-culture of course required that it should be on or near some lake or stream, or, better still, on some system of waters including both lakes and streams in large variety and in close proximity. After a careful study of the University environment, I selected in 1894 the Illinois River and its dependent waters as our general field, and the vicinity of Havana, in Mason county, as the principal seat of our operations. Our two years' experience here has served only to confirm our first impression, that a very suitable and, indeed, highly fortunate selection had been made.

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\*A genuine field-work summer school would be as far ahead of laboratory work for teachers—the class who are wrestling with nature study in the grades—as the laboratory is ahead of the old-fashioned text-book. It would be a distinct advance upon anything ever attempted, so far as I know, in this country.—WILBUR S. JACKMAN.

## LOCATION AND FIELD OF OPERATIONS.

The Illinois River near Havana has a maximum width of about five hundred feet at the lowest stage of water, and a maximum depth at that stage of approximately ten feet. For a distance of about five miles, at the town and above and below, it runs along the foot of a steep sandy bank or bluff, ranging from forty to eighty feet in height, itself the edge of an extensive deposit of glacial sand, extending with little interruption some seventy miles along the eastern side of the river, and perhaps a dozen or fifteen miles in width from east to west. The bottom of this bed of sand is not anywhere exposed near Havana, and has not been reached, so far as I have learned, by any borings in that vicinity. From the foot of the bluff, at or near the water's edge, is a more or less general oozing of clear cold water sometimes flowing forth in springs of considerable size, and sometimes forming small marshy tracts between the river and the bluff.

The opposite or western bank of the river here is of black earth, the border of an alluvial bottom three or four miles wide, in which are several ponds and lakes, and through which Spoon River winds its way, entering the Illinois nearly opposite the town. At the upper end of this five-mile stretch the river leaves the sandy bluff, having thence alluvial banks for some distance northward. The remnant of an old river bed continues upward, however, from this point along the bluff in the form of a narrow bay one and a half miles in length, the so-called Quiver Lake, open to the river below, and receiving Quiver Creek at its upper end. This creek, largely formed by the drainage of a sandy tract to the east and north, empties into the broad and shallow head of the lake through a muddy and weedy flat. Quiver Lake, like the river below, has a sandy bank and margin on the east, and a mud bank on the west. The natural drainage of the sand escapes in large quantities along the eastern side of this lake, keeping the shore constantly saturated with cold water, to a greater or less width according to the level of the lake, and modifying greatly, when the river is low, the character of the waters of the lake itself. A broad bay of this Quiver Lake extending to the west from near its middle, forms what is known as Dogfish Lake, with shores of black alluvial earth all around.

The other waters of the vicinity included in the system of Station operations are Thompson's Lake, a shallow body of water about five miles long by one mile wide, lying in the bottoms near the western bluff; Flag Lake, a shallow muddy pond or, more correctly, a marsh, about three miles in length, largely overgrown in summer with the club-rush, water-lily, and arrowleaf; and Phelps Lake, a small pond of dead water, three fourths of a mile in length, with almost no vegetation, in the midst of a densely wooded bottom-land.

The field headquarters of the Station party, the summer location of the laboratory boat, was at the foot of Quiver Lake, against the sandy eastern bank. The top of the bluff is here wooded at the edge and for a variable distance back with oak and hickory and ash and other common hard-wood upland trees. Cottonwoods, walnuts, locusts, coffee-trees, elms, and pecans of

a considerable size, extending in a rather ragged line, offer a very welcome shade at the foot of the bluff at about high-water mark. An abundant supply of very pure and delightfully cool water is easily reached everywhere, either in running springs or by driving down an iron pipe for a few feet in the sand and screwing on a common cistern pump.

The occasional narrow, swampy flats along the eastern bank of Quiver Lake and beside the river between that lake and the town, are usually tangled thickets of underbrush and swamp-land trees, which at certain seasons of the year are gay with multitudes of flowers and vocal with the songs of a great variety of birds. The general aspect of the flora of the sandy bluffs is quite unusual for Illinois, many plants occurring there abundantly which are rarely seen in ordinary situations. The bottom-lands become covered in late summer and autumn with an immense growth of composite plants, setting the intervals and recesses of the forest ablaze with yellows, purples, and reds, and loading the air with the heavy odor of the upland *Eupatorium*.

This forest itself, beginning at the water's edge with a billowy belt of pale green willows, is an untamed tract of primitive wilderness, differing from that through which the Indian hunted his prey only by the absence of the small percentage of its growth which had a commercial value. Subject to periodical overflow, it has not even been fenced. Elms and pecans and sycamores tower overhead or slowly moulder where they fall, and vines and creepers clamber over the underbrush in a growth like that of a semi-tropical jungle. The shallow lakes and swamps are glorious in their season with the American lotus and the white water-lily, the former sometimes growing in tracts of a hundred acres or more, over which its gigantic peltate leaves, borne on tall slender stems, flash in the sun as they bend to the summer wind. In July and August many of the lakes are nearly filled with submerged vegetation, and in the latter part of the season a film of the duckweeds forms along the shore and floats in large patches down the sluggish current of the stream. Water-fowl abound at the period of their migrations, and fish lie on the shallows, basking in the summer sun in numbers such that dozens may be seen at a time as one floats along in a boat.

The microscopic life of the water is equally varied and abundant, a measurement of the quantity present in a cubic meter of water showing that with a single reported exception\* it is at certain times far in excess of the amount recorded for any other situation in the world. The variety of species present is equally remarkable. The list of those occurring in a single cubic meter of water from the river at Havana in the month of July contains about twice as many as any of the lists of those found at the same time in the lakes of northern Germany or in our own Great Lakes.

The bluff beyond the bottoms to the west is higher than that on the east, and usually of a very different character. Strata of carboniferous rock, sometimes containing veins of coal, outcrop locally near their base, while the

\*Dobersdorfer See, Holstein.

higher slopes are formed of yellowish clays, ditched and gullied by the rain, with occasional small streams flowing through gorge-like valleys from the level uplands of the country farther west.

The description thus far given applies to the lower stages of water only. When the river is at flood the entire bottom-land from bluff to bluff is often wholly under water, lakes, streams, and marshes being then confounded in one unbroken sheet from three to five or six miles across. As the river level varies some eighteen feet between high and low water mark, it may reach in its deepest part a depth of nearly thirty feet. These periods of inundation are very commonly two in a year, one beginning in late winter or spring with the melting of the snows, and the other coming most frequently in June or July, as a consequence of the early summer rains. The rise at either or both these periods is occasionally so small that no very marked effect on the biology of the river is produced. It was, in fact, fortunate for our operations that the first two years of our occupancy of the Station were marked by this comparative uniformity in the river level. Observations and collections made at this time have given us a fairly steady biological base line, by comparison with which variations in other years may be detected, due to extensive overflow and subsequent recession of the waters.

The plan and purpose of our work was such as to make it necessary that we should choose a number of regular stations—called substations in our reports—at which collections should be made and observations placed on record at regular periods for the entire year, and one year after another. These substations, thirteen in number, were chosen to represent the greatest variety of biological situations which the territory within our reach would permit. They have been sufficiently characterized in the introductory part to a report by the Station Entomologist, Mr. C. A. Hart, on the entomology of the Illinois river and adjacent waters, published in the Bulletin of the State Laboratory of Natural History in 1895. It may be said in general that the substations chosen represent the springy bank and sandy margin of Quiver Lake and of the river itself in both swift and sluggish water, the opposite mud bank of river and lake, shallow mud flats overgrown with water weeds, the bed of river and lake in the deepest water occurring, and three forms of bottom-land lakes, together with a fourth occasionally visited. Thompson's Lake gives us a permanent body of water of some little depth, always opening into the river, even at its lowest stage, but contrasting with Quiver Lake in the fact that this opening is long and tortuous, while in the latter it is half as broad as the lake itself. Matanzas Lake, on the eastern side of the river but below the town, is substantially intermediate in character between these two. Like Quiver Lake, it has a high, wooded, sandy eastern shore and low forest-covered mud banks on the west, with an inlet at the head, which is, however, smaller than Quiver Creek. The flow of spring water from the sand is much more abundant. Like Thompson's Lake, its outlet is narrow, but it is very short. This lake commonly has more vegetation than Thompson's and less than Quiver Lake. In Flag Lake we have little more than a fairly permanent swamp, subject, indeed, in extraordinary years to be dried out completely,

but overflowed again from the river at every slight rise. Phelps Lake, on the other hand, serves as an example of the highly variable conditions prevailing in a pool filled up at every general overflow, but isolated on the retreat of the waters, and drying out entirely in the very driest years.

#### ESSENTIAL OBJECTS.

It is the general, comprehensive object of our Biological Station to study the forms of life, both animal and vegetable, in all their stages, of a great river system, as represented in carefully selected typical localities. This study must include their distinguishing characters; their classification and variations; their local and general distribution and abundance; their behavior, characteristics, and life histories; their mutual relationships and interactions as living associates; and the interactions likewise between them and the inanimate forms of matter and of energy in the midst of which they live. We are, in short, to do what is possible to us to unravel and to elucidate in general and in detail the system of aquatic life in a considerable district of interior North America.

So vast a subject must of course be intelligently divided and studied part by part, in some systematic order, to avoid a dissipation of effort and to insure the speedy attainment of some definite and tangible results. Its most obvious divisions are the systematic, the biographical, and the oecological; and this is the order, broadly speaking, in which the general investigation must be carried on. Both systematic and biographical biology have a high independent value in our scheme, but both are with us chiefly means to the remoter end of a study of the interactions of associate aquatic organisms, and of their relations to nature at large. It is thus the oecological idea which is to lead in the organization and development of our work. A systematic survey of the biological assemblage is a necessary preliminary step, and the tracing of life histories and the recognition and description of immature stages is a scarcely less essential prerequisite; for without the knowledge which these studies are to give us, it would be obviously impossible to make any comprehensive study of variations, distribution, and oecological relationships.

The oecology of the Illinois River is greatly complicated, and the difficulty of its study intensified, by certain highly and irregularly variable elements of the environment. Apart from those secular and more or less inconstant features of climate and weather which must be taken into account wherever such studies are prosecuted, we often have here the evidently very large and highly intricate reactions produced by periodic variations in the river level, and the consequent enormous extensions and corresponding diminutions of the mass of the waters and of the area covered by them. Fortunately for the possibilities of success in so difficult a field, progress in it does not require that the entire system of life should be studied as a unit at first. Special problems may be selected, of a kind to be brought easily within the available time and the capacities of the individual investigator, which, being worked out one by one, may be later brought together as contributions to a

solution of the larger problems involved. While it is true, for example, that nothing in or about the waters studied which in any notable way affects any of the great groups of the system can be wholly a matter of indifference to the scientific student of fish-culture, the interests of every species being more or less intimately bound up with the interests of every other, yet provisional conclusions, at least, with regard to this, that, or the other kind of fish, or with regard to fishes at large, may be reached which will have considerable practical value, long before the entire system of interactions and relationships is fully understood. It is not necessary that we should know the food of every species of fish in the locality before we can generalize profitably the food relations of any one, although inferences from such provisional generalizations must always be held subject to modification as our knowledge of related matters grows. A similar remark may be made with respect to such purely scientific matters as the limits and causes of variation, a very useful knowledge of which may be acquired without a full and final theory of variation in general.

In actual practice it has been found that our work may best be opened up by comprehensive studies of the classification such as will give us a critical knowledge of all the forms occurring in our field, and access to the published literature of each; and by parallel or slightly subsequent studies of their habits, life histories, and local distribution and abundance.

#### GENERAL METHODS.

The principal methods of the Biological Station are those of field and laboratory observation and record, collection, preservation, qualitative and quantitative determination, description, illustration, generalization, experiment, induction, and report.

By close and persevering observation in the field, we learn much of the actions, habits, and haunts of animals, of the special conditions under which they live, and of many similar matters; which cannot possibly be learned in any other way; and not a little of this knowledge is necessary to an intelligent treatment of both general and special problems in biology.

The acute, persevering, sympathetic observer of living nature—the “old-fashioned naturalist,” in short—is best to be understood as a “synthetic type,” all of whose best qualities should be not only preserved but intensified among his variously differentiated progeny. If I may generalize my own experience, I must say that it is extraordinarily difficult at the present time to find for this work the trained and intelligent naturalist, habituated to the methods of the close observer, whose eye nothing escapes, but whose mind rapidly and skilfully sifts the miscellaneous offerings of his senses, holding the significant and suggestive, and letting slip the trivial and the unessential. There seem to be among our younger college men ten practical embryologists to one good observer. It is, in fact, the biological station, wisely and liberally managed, which is to restore to us what was best in the naturalist of the old school united to what is best in the laboratory student of the new.

On the other hand, the variety of uses which must now be made of preserved material in the course of our Station studies necessitates the frequent employment of the nicest methods of the histological laboratory, and a complete acquaintance, at least, with laboratory methods in general.

Definite and precise comparisons of different aquatic localities with respect to their biology have first been made possible in some considerable measure by the comparatively recent introduction of more or less exact quantitative methods for the collection and determination of the biological contents of the water. These, commonly known as plankton methods, enable us also to study the biological history of any locality to which they are fully applicable, by making it possible to bring into close comparison the organic contents of the water from day to day, from season to season, and from year to year. Unfortunately, these methods are not as yet capable of application to all aquatic forms in all situations, but have been used successfully only for the smaller plant and animal forms of the clear open water.

By using always identical apparatus in a perfectly uniform manner for the accumulation of microscopic and semi-microscopic objects in such waters and preserving the product by identical methods, it is possible to make and keep collections which may serve as a means to a precise comparison of the mass of organic life in the waters studied, or of the number of individuals representing any selected species.

In our own Station work these plankton operations have been carried forward from the beginning at all the substations where open water could be found in condition to permit the hauling of our plankton net, or, later, the use of the plankton pump. A large number of quantitative determinations of collections so made have been worked out in a way to give the actual quantity of organic life in a cubic meter of water for each situation studied by this method, and enumerations of various forms have likewise been made under the microscope by methods such as to give us reliable data for a comparison of the various waters with reference to the number of such forms in a cubic meter of water. Approximately quantitative collections have likewise been made, wherever possible, in situations which do not permit the use of this plankton apparatus, but with results far less reliable, of course, because based mainly on personal estimates, and made by the use of less precise and exhaustive methods.

It seems not impossible that quantitative and numerical plankton work will be found to have a certain value as a ground of inference concerning the biological contents of water which cannot be searched by the plankton apparatus. In other words, definite, if general, relationships may be found to exist between the amount and composition of the plankton in the free and open water of a given lake or stream at any given time and the mass and variety of living forms contained in the marginal shallows or imbedded in the mud of the bottom.

Considerable modifications have been made at the Station since it opened, in the details of the quantitative method, often forced upon us by the peculiarities of the location and the special conditions under which our work was



carried on, and interesting improvements in special apparatus have resulted from the effort to overcome our peculiar difficulties. A paper on our plankton methods and apparatus is now in course of preparation by the Superintendent of the Station, Dr. C. A. Kofoid, to whom this department of the work has been assigned.

As our work progresses, and special problems are taken up for separate and continuous investigation, the experimental method will necessarily come prominently into use. The object of biological experimentation is the interpretation of nature, and, like all intelligent experimental work, it must be suggested and guided by observation and hypothesis. With us it is the œcological field in which experiment is especially called for. Given certain phenomena of local distribution, of relative abundance, of association, of habit, of variation, and the like, whose causes it is desirable to ascertain, it is incumbent upon us, by a critical and exhaustive study of the environment, to find the materials for rational hypotheses as to such causes, and to test such hypotheses by experimental procedure. It is thus always the field observation, or the laboratory observation made under conditions which involve the least practicable departure from natural conditions actually existing, which must precede and suggest the experiment. The method and the general object of this work resemble thus more closely, on the whole, those of the agricultural experiment station—which is, indeed, a biological station under another name and devoted to a special end—than those of the laboratory of experimental physiology; and it is because ours is to be in the end and in its final objects a station for the solution, by experimental methods, of both special and general problems in the field of œcology that it was christened by its official board of control the *Biological Experiment Station* of the University.

#### EQUIPMENT.

The main features of our present equipment are the laboratory boat and its contents, the steam launch, a number of skiffs, and the apparatus and belongings of the Illinois State Laboratory of Natural History and of the biological departments of the University of Illinois, both of which are placed, without restriction, at the service of the Station force.

#### THE FLOATING LABORATORY.

Our ultimate objects do not limit us to any single field, but will eventually compel us to transfer at least a part of our operations to other points for purposes of comparison and contrast. Indeed, the Illinois River work is but a convenient point of departure for an investigation of the whole Mississippi River system. These facts have made necessary for us a movable construction of considerable size, carefully designed and thoroughly equipped for our work. Furthermore, the great changes of water level and the enormous expansion of the area covered at flood in the region over which we operate, would make a location on shore oftentimes extremely inconvenient as working quarters for our Station force. There is a great advantage also in a position

in the very midst of our field, where contact with the objects of our interest must be almost continuous. It seemed, consequently, clear that a house-boat, or so-called cabin-boat, of special construction, furnished as a biological laboratory but with an equipment for minor experiments also, would meet our needs far more precisely than a building on shore.

This laboratory boat, launched in April, 1896, was built at Havana from plans drawn up under my direction by Messrs. Gunn and McLane of the architectural department of the University. A strongly built hull of Washington fir supports a deck 20x60 ft., upon which is a cabin 16x56 ft. In building the hull extraordinary pains were taken to obtain a steady construction. A three-inch solid bulkhead was run lengthwise through the middle, and two keelsons divide the space between this central bulkhead and the gunwales. Lateral strength was given by four series of diagonal braces, set as shown in Figure of cross section of cabin and placed every two feet, and by three hog-chains run from the bottom of each gunwale over the middle bulkhead. As a consequence, the floor of the boat proved to be remarkably steady, no tremor being noticeable in the use of the higher powers of the microscope on minute objects suspended in fluids. The interior of the hull is ventilated by means of four hatchways with movable covers, two at each end of the deck.

The cabin has six large windows on each side, made freely movable for ventilation, and also transom ventilators above the windows. The roof is penetrated by four large ventilators, and walls and roof are made double, as a protection against the heat, by ceiling with Georgia pine. By virtue of these arrangements, the laboratory rooms were remarkably comfortable during even the hottest weather of the year.

The interior of the cabin is divided into four rooms: an office and library at one end 11 feet and 6 inches by 16 feet, occupied by the Station staff; a main laboratory 29 by 16 feet, primarily for visiting students and for the experimental equipment; a kitchen 8 feet and 8 inches by 12 feet, with gasoline stove and other cook's equipment, in which mid-day meals can be prepared for the Station force; and a small closet or store-room adjacent. The main laboratory is provided with tables, two to each window, and with shelving against the walls for books, note-boxes, specimens, etc., while down the center of the room is a sink table 3x22 ft., covered with zinc and furnished with a water supply for numerous small aquaria. A long overhead zinc-lined tank is supplied by iron piping, with a screw end outside the boat to which the discharge pipe of a hand force-pump can be readily attached. Stopcocks and glass and rubber tubing make the necessary connections with the tanks and jars used for aquarium work, the overflow being carried off by drainage pipes which empty outside the hull. The space beneath the central table is enclosed with doors and provided with shelves for general storage.

The boat has no motive power, but is intended to be towed from place to place as occasion requires. Our steam launch "Illini," proved, indeed, to have sufficient power to transport this boat under ordinary circumstances.

This launch, built by the Racine Boat Manufacturing Company, of Racine, Wisconsin, is 25 feet long by 6-foot beam, and is licensed to carry seventeen persons. The machinery furnished with it was replaced during the summer by a compound engine, of four and a half horse-power, with keel condenser. Both boiler and engine were designed by Assistant Professor VanDervoort, of the University department of mechanical engineering, and the engine and the speed propeller were made under his direction at the University shops. The launch was not designed especially for speed, the distances to be covered in our work being usually very short. It gives us, however, a rate of about six miles per hour. It is entirely safe in all weathers to which it may be exposed in our situation—a point of special importance to us, since our regular routine of field work must be carried out without reference to storm or temperature. Four skiffs of various sizes and a portable canvas boat complete the aquatic equipment.

The more peculiar items of the field and laboratory apparatus are the plankton equipment, the breeding-cages for aquatic insects, and a specially constructed centrifugal machine for the rapid precipitation and condensation, in graduated tubes, of the product of quantitative collections. This last was a modification of the centrifuge used by physicians, the tubes and tube carriers being the same, but the mechanism being specially designed for us by Professor VanDervoort, and made under his supervision at the University shops. The plankton apparatus first used consisted of a peculiar conical net (Apstein pattern) made of No. 20 silk bolting cloth. This was hauled through the water obliquely from bottom to top, a distance of thirty meters, at a perfectly uniform rate, the movement being timed by seconds counted with watch in hand. The net was suspended to a carrier and drawn along a tightly stretched line, to which it was hung by means of pulleys, the various particulars of the arrangement being devised by Assistant Professor Smith, in charge of the plankton apparatus and the Station itself during the first year. In May, 1896, this plankton net was superseded by a hand force-pump, selected after considerable investigation of various styles, of a size and weight to be conveniently managed in a large skiff. The feed pipe of this pump is long enough to reach the bottom in our deepest water, and the discharge pipe delivers into a straining net suspended in the water from a float to secure the contents of a vertical section. The further end of the feed pipe is sunk to the bottom and slowly raised to the surface, the pump being meanwhile worked by an assistant in a perfectly regular manner. Minor features of the apparatus and items of the procedure will be described in a special paper on our Station methods, now in course of preparation by the Station Superintendent.

For keeping insect larvæ under perfectly natural conditions, but exposed to continual observation, small cubical boxes were used, with two sides and the bottom of wood and the other two sides of wire gauze, and a cover of glass set in a wooden frame which overhung the top of the cage, fitting closely to the sides. These cages were placed around a large float in the lake or river in such a manner as to be kept about half full of water, which, of course had free access through the wire gauze sides.

The laboratory boat was amply stocked with compound and dissecting microscopes, and a supply of chemicals, glassware, and apparatus for [the preservation of specimens and for microscopical technology. It was equipped for fifteen workers in addition to the Station staff. The excellent working library of the State Laboratory of Natural History was freely drawn upon for everything needed in aid of the special work in progress at the time, and the library appropriation of the Laboratory was also used as necessary to supply desiderata. This aquatic establishment was found in all respects so satisfactory and convenient, that rented rooms in the town, similarly furnished, were presently abandoned by the entire party, all preferring to work upon the boat.

#### ORGANIZATION AND STAFF.

The staff of the Biological Station is composed of the Director and certain Assistants of the State Laboratory of Natural History, all of whom are appointed by the Trustees of the University of Illinois, and all except the Director upon his nomination. This officer is responsible for the organization, equipment, and general and financial administration of the Station, for the plan and objects of its operations, for the establishment and assignment of departments, for the main features of the papers and reports, and for the editorial supervision of the Station publications. The Superintendent, who is appointed as such officer, although borne upon the list of the assistants of the State Laboratory, has immediate charge of the Station force, and is responsible to the Director for the execution of its plan of operations. He is allowed a large latitude with regard to details, and, in the absence of the Director, all the workers at the Station are under his immediate orders.

From the establishment of the Station in April, 1894, until June 30, 1895, Mr. Frank Smith, at first Instructor and later Assistant Professor in the University department of zoölogy, served as Superintendent, devoting his time continuously to Station work until January 1, 1895. He had special personal charge of the quantitative collections—the so-called plankton work—during this period. He also began during the summer of 1894, a systematic study of the oligochaete worms of the Station and its vicinity, which he has continued to the present time, giving to this subject his vacations entire, and such time as is left him after the performance of his duties in his University department. He was assisted in his work from May to September, 1894, inclusive, by Mrs. Dora Smith, who served the Station as its microscopical technologist during that period. Beginning with July 1, 1895, the Station has been in charge of Dr. C. A. Kofoid, as Superintendent, with the planktology of the situation as his special department. He also acted as superintendent of construction during the building of the laboratory boat. His entire time has been given to the Station work, except for the teaching of one University class for one term, undertaken as an exchange of services with the zoölogical department.

The entomological work has been, since the commencement, in charge of Mr. C. A. Hart, Systematic Entomologist of the State Laboratory, assisted

for two of the summer months of 1895 by Mr. Ernest B. Forbes. Mr. Hart's share in the regular routine of Station operations has been the making of the inshore and longshore collections at the various substations. In addition to his studies of the habits and life histories of aquatic insects, he has listed the Mollusca of the collections from the beginning. From September 8, 1894, to July 1, 1895, he was the sole continuous occupant of the Station, being responsible during that period for the regular field work, carried on with the assistance of visiting parties from the State Laboratory at Urbana.

Mr. Adolph Hempel was engaged without interruption upon a study of the Protozoa and Rotifera of the Station from its opening to June 1, 1896. At this time the condition of his eyes forbade further use of the microscope, and he was placed in charge of the Station launch as its licensed engineer. He occupied the Station alone during the winter of 1895-96, keeping up, with such assistance as it was necessary to engage from time to time, the regular routine of collections and observations at the various substations.

Miss Lydia M. Hart, Artist of the State Laboratory, has devoted a large part of her time to drawings in illustration of the various papers prepared by the Station force. She was at Havana during about a month of 1895, the remainder of her work in this direction having been done at the State Laboratory.

Mr. Ernest B. Forbes has served during the vacation period of three seasons, the first as a general zoological assistant, the second as an assistant in the entomological field work, and the third in making a special study of the Cyclopidae of the Station collections.

Periodical chemical analyses of various waters collected at the Station have been made, from the first opening, under the direction of Professor A. W. Palmer, of the chemical department of the University of Illinois. Mr. C. F. Hottes, Botanical Assistant in the University, made several trips to the Station with Superintendent Smith during his regular visits in the winter of 1894-95, and both he and Professor T. J. Burrill, of the University department of botany, have made occasional collections of aquatic plants.

Mr. Miles Newberry, an experienced fisherman of Havana, has served the Station very efficiently from the beginning as a general assistant. He has been particularly serviceable as an aid in plankton work, and has had immediate charge of the boat and of the aquatic equipment generally.

#### GENERAL EXHIBIT OF RESULTS.

Although the first report of results accomplished in a field so extensive and complicated as that occupied by our Biological Station must necessarily be largely an exhibit of work in progress, it seems possible to make a statement which shall give a comprehensive, if somewhat indefinite, idea of the outcome of operations thus far undertaken. This report may be made most conveniently under the heads of plankton operations, collections accumulated, ento-

mological studies, molluscan collections and determinations, fresh-water worms, studies of Protozoa and Rotifera, chemical determinations, reports and publications, and the summer opening of the Station.

#### PLANKTON OPERATIONS.

The minute plant and animal life suspended in the waters of a river system, moving downwards with its current and washed to and fro by its waves, composes what is known to the modern biologist as the plankton of its waters. The Station operations in this field were primarily directed to a study of the amount of this plankton in the various locations selected, its seasonal and other periodic changes, its local and vertical distribution, its composition as to the species represented, and its relation in the general system of aquatic life. Our field of operations is a unique one, as yet practically untouched by the scientific investigator, in so far as it is limited to a river system and its dependent waters.

The plankton substations in 1894 and 1895 were five in number, one in the river, a short distance above the foot of Quiver Lake, another in Quiver Lake itself, a third in Dogfish Lake, a fourth in Thompson's Lake, and a fifth in Flag Lake, between Thompson's Lake and the river. To these were added in 1896 a substation at Phelps Lake, from which, indeed, a single quantitative collection had been made in 1894, and another in Spoon River, a short distance above its mouth. From these various substations a thousand quantitative collections have been made since the Station opened, those from April, 1894, to June 30, 1895, by Professor Frank Smith, or under his immediate direction, and those subsequent to that time by Dr. C. A. Kofoid. All these tows have of course been carefully preserved by methods such as to permit their quantitative comparison, and about three fourths of them have been quantitatively determined by Dr. Kofoid by methods of precise measurement. A considerable beginning has also been made in the enumeration of their contents by counting under the microscope.

Various modifications of plankton methods, elaborate tests of the apparatus used and of the methods of discussion current, and other items of improvement in the equipment and in the methods of planktology will be reported by Dr. Kofoid in a paper on this department of our work, now nearly ready for the press. For certain general conclusions of considerable interest and of at least provisional value reference may be made to the same paper.

#### COLLECTIONS ACCUMULATED.

The total number of lots of specimens collected since the opening of the Station amounts to 6,628, besides 5,500 pinned insects. Of the former, 434 lots contain materials for a study of the food of animals, 300 of them being the contents of the stomachs of fishes; 270 are specimens of vertebrates; 3,560 are preserved collections of invertebrate animals; 1,823 are towing-net collections; and 543 were collections of Rotifera and Protozoa, most of which were studied alive because incapable of satisfactory preservation. The entire

number of collections, including under this head each object or lot of objects specially numbered and separately entered on our notes or in the accessions' catalogue of the Station, is thus nearly 12,000. Besides these, mention should be made of about 400 microscopical slides of serial sections of oligochaete worms made for Professor Smith in the course of his studies of that group.

## LIST OF COLLECTIONS.

Shallow-water collections with Birge net.....	232
Qualitative collections with surface net.....	592
Quantitative collections with plankton apparatus.....	999
Protozoa and Rotifera collections.....	543
Vermes .....	490
Crustacea .....	167
Arachnida .....	235
Insecta (liquid collections).....	2,245
Insecta (pinned specimens).....	5,500
Mollusca collections .....	388
Fishes.....	196
Amphibia.....	59
Reptilia.....	15
Food collections.....	434

## ENTOMOLOGICAL STUDIES.

It has been thus far the primary object of the entomological studies made by Mr. Hart to make us fully acquainted with each species in all its stages as a preliminary to investigations along other lines. To this end extensive search has been made of all varieties of situation in the waters of the Station field, the species at each location being listed at each visit, and collections being also made. The regular typical localities represented by the substations have been further searched at regular intervals for two years. About five hundred lists and illustrative collections have thus been accumulated. The biological observations and breeding-cage experiments made during this time are recorded on some seven hundred note slips.

The Hymenoptera and a large part of the Diptera and Lepidoptera have been worked up, and reported upon in a paper on the entomology of the Illinois river and adjacent waters, published as Article VI. of Volume IV. of the Bulletin of the State Laboratory of Natural History. Since this publication, much additional information concerning these groups has been acquired. Careful studies have been made on some of the smaller Diptera, on the water-beetles, and upon the Neuroptera, Thysanura, and Hydrachnidæ. The dragon-fly collections have been determined by Mr. J. G. Needham, formerly Instructor at Knox College, and by Mr. C. C. Adams, an assistant in the State Laboratory.

These entomological collections represent some 350 species of insects. Every effort has been made to identify, by breeding, eggs, larvæ, and pupæ of insects aquatic in any stage. About 275 hitherto undescribed forms have thus been obtained, and immature stages of about 225 species have been accurately identified.

## MOLLUSCAN COLLECTIONS AND DETERMINATIONS.

The Station collections of mollusks, made mostly by Mr. Hart, contain about 11,000 specimens, 600 of which are clams (Unionidæ). All this material, except that most recently brought in, has been examined and determined by various American specialists. About eighty-five names of aquatic or semi-aquatic mollusks have thus been obtained, and their distribution and life history have received special attention. The Unionidæ have been studied with reference to characters derived from the entire animal, and much interesting information has been accumulated concerning their relationships, life histories, and parasites.

## FRESH-WATER WORMS.

The greater part of the time of Professor Smith available for State Laboratory work has been devoted to a study of the oligochæte worms (earthworms and their allies) found in and about the Illinois River and other waters near Havana. Most of this work has necessarily been of a systematic character, although progress has been made along other lines. The importance of systematic work on this order is shown by the fact that with the exception of descriptions of two species published in Vol. III of the Bulletin of the State Laboratory,\* almost nothing has been known of the representatives of the group in the Mississippi Valley, and but little, indeed, for all the eastern part of the United States.

Collections have been made from all the regular substations and at various places in the bottom-lands and along the shores of the river to a point two miles south of Havana. Many of the worms obtained were studied while living, and for further study about seventy bottles of specimens have been prepared and preserved in alcohol or formaline. For a successful study of most of these worms serial sections are indispensable, and thus far about four hundred microscopical slides of such sections have been made and used.

The work of identification is now nearly completed, and probably nearly all of the different species occurring in the region are represented on our lists. Of the thirteen families of Oligochæta recognized by Beddard, nine are represented at Havana by thirty species belonging to sixteen genera. Less than one half of these species occur in Europe, and the remainder, with few exceptions, are known only from the United States. Two new genera and at least seven new species have thus far been found by us.

Numerous experiments have been made in rearing naidiform worms, and considerable new information has thus been acquired concerning their asexual reproduction.

Identification and description of the planarian worms of the Station collections has been kindly undertaken for us by Professor W. M. Woodworth, of

\*Art. IV. "On the Anatomy and Histology of a New Earthworm (*Diplocardia communis*), gen. et sp. nov., by H. Garman; and Art. VII., "On an American Earthworm of the Family Phreoryctidæ," by S. A. Forbes.



Harvard University, to whom all our material has been sent, much of it alive. The work on these collections has all been done, and Professor Woodworth's paper is nearly ready for publication.

#### STUDIES OF PROTOZOA AND ROTIFERA.

These minute animal forms of the Station fauna have been very patiently and thoroughly worked out from day to day for nearly two years by Mr. Adolph Hempel. As most of them could not be studied to advantage except in a living state, they have been determined as fast as collected. More than five hundred collections have thus been critically overhauled, and annotated lists of species and descriptions of new forms have been prepared and either published, or made ready for publication, in the Bulletin of the State Laboratory of Natural History. 102 species of Rotifera (three new) and 80 species of Protozoa (five new) have thus been listed from our situation by Mr. Hempel, and several others have been identified by Dr. Kofoid, in the course of his studies of the plankton, since Mr Hempel's work was suspended as a consequence of injury to his eyes. Among these latter acquisitions was one of the most remarkable and important rotifers known to science, a species of the genus *Trochosphaera*, which is famous in the annals of zoölogy for the light which it throws upon the zoölogical relationships of the Rotifera at large. This genus, founded on a species discovered by Professor Semper in 1872 in pools in the rice fields of the Phillipine Islands, is now further represented only by collections made at Brisbane, Australia; in the Yangtse-Kiang, in China, and by the Illinois River specimens observed by Dr. Kofoid in the summer of 1896.

#### CHEMICAL DETERMINATIONS.

In a thoroughgoing study of the oecological system of an aquatic situation, the chemical condition of the waters will necessarily be an important element, and the Station has consequently done what was possible to it in its present state to institute and encourage chemical studies of the waters from which its biological materials are collected. It is much to be desired that very frequent examinations should be made of the waters at all the typical substations with a view to tracing their chemical history at each throughout the day and under the changing conditions of season, stage of water, and the like. The gaseous contents of the waters are of special interest and importance to us, since they have probably most to do with the welfare of aquatic animals and plants. It has been impossible, however, during these first years to provide for more than the usual form of chemical examination of water as made for sanitary purposes, and even this would have been impracticable if the chemical department of the University of Illinois had not responded generously to my request that such analyses be undertaken.

Beginning in May, 1894, collections of water from the river and from various other points in the Station field have been made at regular intervals by Station assistants and shipped to the Chemical Laboratory of the University, where they have been examined either by Professor A. W. Palmer, or

by assistants working under his direction. Since the beginning of this work it has been merged in that of a Chemical Survey of the waters of the State, established at the University in consequence of appropriations made by the State legislature to that end during the winter of 1895. One hundred and ninety-three analyses in all have now been completed, and a report setting forth the comparative results will be published during the current year.

#### REPORTS AND PUBLICATIONS.

The final major product of our Station work must be in the form of published papers and reports, our material accumulations being of merely secondary interest and value, and often of only temporary use. Necessarily, however, so soon after the organization of the work, it has not been possible to prepare and to publish papers of a sort adequately to represent the ideals of the Station management, or to illustrate its final ends. Nevertheless, considerable contributions to science resulting from the investigations of the Station staff have already been printed or are now in press, and the preparation of manuscript is going actively forward in several departments. Quite in accordance with our original expectation, visiting students who have availed themselves of the facilities of the Station have prepared, or are now preparing, papers embodying the results of their investigations, credit for which must belong in part to our establishment, without which they would not have been written.

The principal contributions now in print are papers by Mr. Hart, Mr. Hempel, and Professor Smith. The first of these is an article by Mr. Hart on the entomology of the Illinois River and adjacent waters, filling one hundred and twenty-five pages of our Laboratory Bulletin and illustrated by fifteen half-tone plates. Professor Smith's additions to a knowledge of our oligochæte worms have appeared as two papers of the Laboratory Bulletin, describing four new species and a new genus of these animals, with a large amount of anatomical and histological detail. We have also printed an article by Mr. W. H. Ashmead, of the United States National Museum, on parasitic Hymenoptera bred from aquatic insects at Havana, containing descriptions of three new species. Four new species of Protozoa and three of Rotifera from Station situations have been described by Mr. Hempel in an article of the State Laboratory Bulletin, accompanied by five plates of illustrative figures.

We have now going through the press a third paper by Professor Smith, containing a description of a new genus and two new species of oligochæte worms from Havana and of one from Florida, together with a description of the reproductive organs of *Pristina*, upon which subject nothing has heretofore been known. This article will be accompanied by four plates. A paper on the Ostracoda of North America, by Mr. R. W. Sharpe, a graduate student of the University, is also in press. This article has been made to include the product of a careful examination, of the collections made in this group from the opening of the Station to the midsummer of 1896. It is accompanied by ten plates.

Mr. Hempel's observations on the Protozoa and the Rotifera of the Station, accumulated during two years' continuous study, are in hand in the form of

a completed manuscript, accompanied by thirty folded sheets setting forth in tabular form the distribution of the various species at each substation and also throughout the Station field for the different months of the year. This report was finished last September and will be printed without delay.

Dr. Kofoed has lately filed a report, which is about to go to press, on methods and apparatus in use in plankton work at the Station, accompanied by seven illustrative plates. He has in hand six other papers, which will doubtless be ready for publication before the end of the current fiscal year. These will include reports on the local distribution of the plankton in the Illinois River and its adjacent waters, on the sources of error in the plankton method, on the plankton of the river during the years 1894, 1895, and 1896, on the plankton of Phelps Lake,—a body of water of the ephemeral type,—an article on *Trochosphaera*, and one on *Cotylaspis insigne*—a remarkable parasite of the river clams.

Professor Smith has under way a general report on our oligochæte collections, to consist of about fifty pages of text, with several plates. This report will contain a synoptic key and illustrated descriptions of species for use in identifying forms occurring in the State.

Mr. Hart, Station Entomologist, and Mr. J. G. Needham are working jointly upon a report on the dragon-flies of the Station waters and their vicinity, and a list of the mollusks with biographical and œcological notes is in course of preparation by Mr. Hart.

Two senior students of the zoölogical department of the University, Mr. E. B. Forbes and Mr. F. W. Schacht, are engaged in thesis investigations, under the personal supervision of the Director of the Station, which will result in the preparation and publication of papers on entomostracan groups, one the Cyclopidae, the other the Centropagidae, of North America, including of course the Station collections.

I have myself undertaken to prepare, and have nearly finished, a comprehensive article on the Crustacea of the Biological Station field, with analytical synopses of all the groups and illustrative figures for the use of the student of our aquatic fauna.

A paper on the planarian worms found at Havana is now reported as practically ready for the press in the hands of Dr. W. M. Woodworth, of Harvard University. Articles in course of preparation by visiting investigators are "The Mycetozoa collected near Havana, Illinois, during the summer of 1896," by H. C. Beardslee, of University School, Cleveland, Ohio, and "Statistical Record of the Trematoda Parasitic in the Unionidae," by Professor H. M. Kelly, of Cornell College, Iowa.

The excellent work done by the Station Artist, Miss Lydia M. Hart, in illustration of nearly all the papers of the foregoing list, is deserving of particular mention. One hundred and three drawings have been made by her of new or otherwise interesting animal forms, besides several drawings of pieces of apparatus and other features of the equipment.

General mention may also be made in this connection of the publication and widespread distribution of a preliminary report upon the Station\* illustrated by seventeen plates of the situation and surroundings, and of a small illustrated pamphlet descriptive of the Station and its work, inviting advanced students and other competent investigators to share its privileges during the vacation months of 1896.

#### SUMMER OPENING OF THE STATION.

With the launching and equipment of the cabin-boat it first became possible for us to offer the facilities of the Station to students outside our own official group. Anticipating this opportunity, a pamphlet of twenty-four pages, containing twelve half-tone plates, was distributed in the fall of 1895, describing the Station and its surroundings, its equipment, its plan of operations, and its program for the season, and making the following offering.

"The establishment and recent equipment of the Biological Station of the University of Illinois will afford a unique opportunity to a limited number of competent students to become acquainted with the plant and animal forms and with the system of life of a continental river and its dependent waters, and with comprehensive methods and modern apparatus of investigation in aquatic biology. This opportunity, it is believed, will be valued not only by interior students who would like to enlarge their personal knowledge of the aquatic life of their own territory, but also by investigators of experience in other fields who may wish to extend their studies, for the sake of comparison, into a department of American biology hitherto practically unexplored."

"For these reasons, and notwithstanding the fact that this Station was established especially as a means of research by its own staff, it has been decided to open it for the months of June, July, and August to biological investigators and to students of some experience in zoological or botanical work. The present accommodations are sufficient for only sixteen persons additional to the Station force. Applications for admission must consequently be made in advance and at as early a day as practicable, with precise specification of the period for which the applicant wishes to occupy a table in the Station laboratory."

\* \* \* \* \*

"Applications for admission to the Station will be entertained this first year only from independent investigators and from students of biology who have had sufficient experience to render systematic instruction and continuous supervision unnecessary. Other things being equal, instructors in biological science in colleges and public high schools will be given the preference."

"Tables on the laboratory boat or in the rooms on shore, and other general laboratory facilities, will be provided for those whose applications are accepted; ordinary microscopic reagents will be supplied; and access will be given to the biological library of the Station. Books will also be loaned, as needed, from the library of the State Laboratory of Natural History and

\*See *Bien. Rep. Direc. Ill. State Lab. Nat. Hist.*, 1893-94, p. 14.

from that of the University of Illinois. Occupants of the laboratory will be expected to furnish their own microscopes or to pay a small fee for the use of those of the University. They are advised to bring also any collecting apparatus in their possession, as the laboratory equipment may otherwise be insufficient for all wishing to use it. Students must furnish their own alcohol for private collections, and especially expensive reagents—such as osmic acid or platinum-chloride.”

“Although the Station is established and maintained primarily for a study of life histories, interactions of organisms, and reactions with the environment, no restriction will be placed upon the lines of zoölogical or botanical work to be pursued by those in attendance. In making application, however, the candidate should describe the nature of the study he wishes to pursue, and should also indicate the kind and amount of preparation for such work he may already have had. Applications will not, as a rule, be considered later than a fortnight previous to the time at which a table is desired, and no formal permission will be given for a stay of less than two weeks. Within these limitations visitors may come and go at any time within the months of June, July and August.”

“Reports on the Protozoa, rotifers, oligochæte worms, Cladocera, and insects of the Station, and perhaps on one or two other groups also, will be in print by the 1st of June, and will be furnished free of charge to those desiring to make studies in these groups.\* These papers will contain analytical keys, descriptions of species, genera, etc., or references to descriptive literature accessible at the Station, together with much biological and oecological detail.”

“While no provision is made for formal instruction, it is expected that the membership of the Station will be organized as a biological club to hold stated meetings for conference, discussion, and occasional lectures by the Station force or by visiting specialists.”

“An incidental fee of \$5 a month will be charged to each participant.”

The privileges thus tendered were finally accepted by seventeen persons, who were in attendance during the summer for periods ranging from three to ten weeks. Although the number of tables available for outside use was only fifteen, not all of this group were present at a time, and the floating laboratory afforded sufficient accommodations for all who came. The states and institutions represented and the subjects to which special attention was given are shown by the following list:

C. C. Adams, B. S., Assistant in Biology, Wesleyan University, Bloomington, Illinois. Dragon-flies.

H. C. Beardslee, A. B., Instructor in Science, University School, Cleveland, Ohio. Fleishy fungi, Myxomycetes, and aquatic flora.

Miss L. L. Conover, B. S., Teacher of Botany, High School, Detroit, Michigan. Algæ and Myxomycetes.

\* It proved impossible to carry out the intention expressed in this paragraph, but the unlimited use of the library facilities of the State Laboratory of Natural History made fully good to visitors the substance of this offering.

Charles Fordyce, Principal of the Normal Department, Biology, Nebraska Wesleyan University, University Place, Nebraska. Fresh-water Algæ and general biology.

H. A. Fraser, B. S., Teacher of Biology, High School, Joliet, Illinois. Fresh-water sponges and general biology.

W. K. Hill, A. B., Superintendent of Schools, Carthage, Illinois. Fresh-water Algæ.

G. W. Horton, Superintendent of Schools, Dwight, Illinois. Rhizopoda and general biology.

H. M. Kelly, A. M., Professor of Biology, Cornell College, Mt. Vernon, Iowa. Trematoda parasitic in clams.

J. G. Needham, M. S., Instructor in Zoölogy, Knox College, Galesburg, Illinois. Life histories of dragon-flies.

C. S. Oglevee, B. S., Instructor in Zoölogy and Botany, Lincoln University, Lincoln, Illinois. Protozoa and general biology.

C. E. Phillips, Millington, Illinois. Student at Eureka College, Eureka, Illinois. General biology.

Mrs. W. S. Pierce, Teacher of Science, High School, Havana, Illinois. General biology.

Maurice Ricker, B. S., Teacher of Chemistry and Biology, High School, Burlington, Iowa. Hydrachnidæ and general biology.

L. S. Ross, M. S., Professor of Biology and Geology, Drake University, Des Moines, Iowa. Cladocera of Iowa and Manitoba.

F. W. Schacht (U. of I., '97), Moline, Illinois. The Centropagidæ of the locality in connection with thesis investigation.

R. W. Sharpe, B. S., Teacher of Biology, High School, Danville, Illinois. Ostracoda.

C. A. Whiting, Sc. D., Professor of Biology, University of Utah, Salt Lake City, Utah. General biology.

#### FINANCIAL RESOURCES AND EXPENDITURES.

The entire sum available for the equipment of the Station and its maintenance for three years and three months has been \$10,300, \$1,800 of which was appropriated by the Trustees of the University March 13, 1894, for the commencement of the work, and the remainder of which is derived from legislative appropriation made in June, 1895. Two thousand five hundred dollars of this latter appropriation was for building and equipment and \$6,000 for running expenses for two years. The equipment fund has been expended in the purchase and modification of the Station launch "Illini," in building, furnishing, and equipping the floating laboratory and in providing various minor items of apparatus and furniture.

The floating laboratory or cabin-boat cost \$1,573 furnished and equipped, the contract price for construction being \$1,255. Five thousand five hundred and six dollars had been expended September 30, 1896, on account of salaries and general expenses of the Station, a balance of \$1,394 remaining in hand to the credit of the appropriation. The salaries for this period of thirty months have been \$4,218,—an average of about \$140 per month,—and the general expenses of the work have been \$2,187—approximately \$73 per month.

## PRESENT NEEDS AND FUTURE DEVELOPMENT.

The principal present needs of the work, apart from a fund sufficient for its maintenance on existing lines, are (1) more elaborate provision for chemical investigations, (2) a salary fund sufficient to enable me to add an experienced botanist to our present staff, (3) a site of three or four acres near the foot of Quiver Lake, and (4) provision for two principal buildings on shore and for a small system of permanent ponds with a pumping equipment for their maintenance.

The necessary chemical work will undoubtedly be provided for by the Chemical Survey of the waters of the State if the funds available for that survey are made sufficient to enable the University chemists to meet our wishes in this respect. As already said under another head in this report, chemical analyses are a matter of the first importance to the whole investigation we have undertaken. They will have a very great incidental value also outside our own field because of their bearing upon questions of public health as affected by pollution of the waters of the Illinois River by sewage and other waste from the towns above, and ultimately from Chicago by way of the drainage canal.

A knowledge of the plant life of the river is scarcely second in importance to that of its animal life; a fact which has been evident to me from the beginning, but which, nevertheless, I have been compelled largely to ignore because of lack of funds to provide for continuous botanical investigation. Several competent zoölogists were already in our employ as assistants in the State Laboratory of Natural History, and zoölogical investigation could consequently be provided for with little difficulty and at a relatively small expense. Furthermore, the smaller animal forms—the rotifers and the Protozoa—can be successfully studied as a whole only in the living state, while microscopic plants are capable of preservation in condition to make their subsequent determination practicable. Our plant collections can consequently still be worked up by a botanist having an expert knowledge of aquatic forms. It is very much to be desired that another year may not be allowed to pass without provision for this indispensable part of our general subject, without which, indeed, final conclusions concerning the œcology and economics of our aquatic biology cannot possibly be reached.

The efficiency of our corps of workers and the quantity of the results of their work would be very greatly increased if provision were made for their continuous maintenance on Quiver Lake. Our daily trips to and from the town proved very wasteful of time and opportunity, and have added greatly to the expense of running the Station launch. Furthermore, notwithstanding the great usefulness of our floating laboratory, it is in some respects insufficient for the more advanced stages of our work, and should be supplemented by a laboratory building in the immediate neighborhood. Experimental researches will presently require a larger equipment than that now at our disposal in the jars and small aquaria to which we are at present confined.

Finally, if the Station is to be utilized to the fullest extent as a means of instruction to teachers in the public schools, permanent provision for this work must certainly be made.

These various needs can be met by the purchase of a small tract of land now lying practically waste, by the erection of a small building on the bank of Quiver Lake which shall combine additional facilities for laboratory investigation with living quarters for the Station staff, by the excavation of ponds on the Station grounds and the construction of a water tank and pump, and by the building of a large pavilion, with some connected rooms, for mid-summer work by visiting students.

Concerning the immediate future of the work, I beg to say that it is my present wish and intention, if the Station is maintained on a scale and under conditions to make it possible, to extend its work especially along three principal lines. The preliminary systematic survey having been now largely completed, I hope next to select specific problems for solution by experimental methods, working towards definite ecological results of scientific value. Studies of the lower forms of aquatic life in our situation are now so far advanced as to make it profitable to bring into our scheme of regular operations the fishes of these waters. A particularly thorough, continuous, and comprehensive study of them should be made from various points of view, in the hope especially of helping the fish-culturist to more intelligent methods and to more certain and permanent results.

Although the Station was founded primarily for investigation and its expenditures up to the present time have all been made directly to that end, it is very apparent that it has a highly important work to perform in the interests of public education. I hope to occupy fully and at once this broad field of usefulness which now lies so plainly open before us, not only by continuing and enlarging our offerings to advanced students and to investigating naturalists, but especially by providing all needed facilities and instruction in field biology and in special pedagogical methods to present and prospective teachers of the natural history subjects in all grades of the public school. As a first step to this object, I have already submitted to you a plan for a summer school of field biology to be opened during the vacation season of next year. This work should, I do not doubt, become a permanent and prominent feature of the Station operations.

I ought not to close this general review and presentation of the affairs of the Biological Station without calling your attention to the cordial and appreciative manner in which our enterprise has been received by expert judges of high rank in this country and abroad. Important articles on its work have appeared in several of the leading scientific journals of Europe and America, and our official correspondence also contains many expressions of warm interest in our success from eminent men in various parts of the world.

It gives me further pleasure to express to you my high appreciation of the capable, energetic, and successful work of my associates on the Station staff. Neither the broiling heat of the July sun nor the midwinter's cold have been able to interrupt or even to delay the regular progress of the very laborious



and exacting routine of their operations; and the steady strain of long months of confining work at the microscope has been taken by them with the patient enthusiasm of the trained investigator at work in a fruitful field. The contagion of the example of this little group of indefatigable naturalists is clearly affecting the life of related departments of the University, and it must in time make itself sensibly felt throughout the state and the country in the advancement of biological science and in the improvement of our methods of biological instruction.

Respectfully submitted.

S. A. FORBES,  
*Director.*

November 30, 1896.

# AGRICULTURAL EXPERIMENT STATION.

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

GENTLEMEN:—An examination of the lists given below of articles published in the bulletins issued and of experiments carried on will give a good idea of the work of the Station for the two years ending June 30, 1896.

## LIBRARY.

The number volumes and pamphlets entered upon our accessions catalogue in the library is 4,288. The number of bulletins 2,818.

## PUBLICATIONS.

Eleven bulletins, Nos. 34 to 44, inclusive, and two annual reports have been published. The bulletins contained in all 344 pages. Seventeen thousand copies are printed, and the circulation amounts to 15,500. Two annual reports contained 16 pages each.

The bulletins contained articles as follows:

Bulletin No. 34, August, 1894, 20 pp. Experiments with Wheat 1893-4. Experiments with Oats, 1894.

Bulletin No. 35, August, 1894, 4 pp. The Russian Thistle in Illinois.

Bulletin No. 36, August, 1894, 24 pp. Stock Feeding in Illinois. Index to Bulletins 17 to 36.

Bulletin No. 37, February, 1895, 24 pp. Corn Experiments, 1894.

Bulletin No. 38, March, 1895, 62 pp. Experiments with the Muscardine Disease of the Chinch Bug, and the Trap and Barrier Methods for the Destruction of that Insect.

Bulletin No. 39, April, 1895, 32 pp. The Russian Thistle and Some Plants that are Mistaken for it.

Bulletin No. 40, April, 1895, 28 pp. Potatoes Experiments of 1892-3-4, with a Statement of some Results Obtained at other Stations. Fungus Diseases of the Potato. An Experiment to Prevent Scab and Leaf Blight of the Potato.

Bulletin No. 41, March, 1896, 16 pp. Experiments with Wheat, 1888-1895.

Bulletin No. 42, March, 1896, 18 pp. Corn Experiments, 1895.

Bulletin No. 43, April, 1896, 28 pp. Composition and Digestibility of Corn Ensilage, Cow Pea Ensilage, Soja Bean Ensilage, and Corn Fodder.

Bulletin No. 44, May, 1896, 88 pp. Insect Injuries to the Seed and Root of Indian Corn.

## NEW WORK.

Upon recommendation of the Board of Direction of the Station, new work has been authorized as follows:

December 5, 1894.

1. To test the digestibility of some foods for cattle.
2. To study methods of ripening cream for its better preservation and for the better keeping qualities of butter.

March 12, 1895.

1. Soil experiments with field crops.
2. Irrigation experiments.

June 11, 1895.

1. Establishing varieties of red clover by selection.
2. Improvement of Indian corn by selection and careful breeding.
3. Companion and catch crops for Indian corn.
4. Methods of pasteurizing cream and milk.

September 4, 1895.

Indian corn and its relations from every conceivable point of view, including, among other things, the following items:

1. Its botanical, chemical, and physiological characters and requirements.
2. Its culture.
3. Breeding.
4. Its relations to the elements of fertility.
5. Ascertaining what rotations or systems of cropping are best adapted to the largest practicable production of corn both in acreage and yield, and to maintain the fertility of corn lands.

December 10, 1895.

Field experiments with a view to determining in what way the peculiar clay soil of a considerable portion of southern Illinois may be cultivated to best advantage, two tracts of land to be secured, one of three acres at Edgewood, the other of fifteen acres at Odin.

March 10, 1896.

1. Experiments with Kafir corn.
2. Investigations of pear blight.

## EXPERIMENTS CONTINUED AND UNDERTAKEN.

The following table gives the number and title of each experiment that has been in hand during the year. In the first column to the right of each title is given the year when the experiment was begun; in the second the experiments in progress are marked; and in the last column, is stated in which bulletin, or bulletins, a report upon the experiments may be found, if any has been published:

Table Showing Experiments in Hand During Two Years.

No. experiment.	Class and title of experiment.	When begun...	In progress....	Reported in bulletins Nos.
<i>Field Experiments—</i>				
1	Corn, testing varieties.....	1887-8	x	4, 8, 13, 20, 25, 31, 37, 42
3	Corn, time of planting.....	“	x	4, 8, 13, 20, 25, 31, 37, 42
4	Corn, depth of planting.....	“	x	4, 8, 13, 20, 25, 31, 37
5	Corn, thickness of planting.....	“	x	4, 13, 25, 31, 37, 42
9	Corn, depth of cultivation.....	“	x	4, 8, 13, 20, 25, 31
12	Oats, quantity of seed per acre.....	“	x	3, 7, 12, 19, 23
13	Oats, compact or loose seed-bed.....	“	x	3, 7, 12, 23
14	Oats, time of sowing.....	“	x	3, 7, 12, 23, 41
15	Oats, depth of sowing.....	“	x	3, 7, 12, 23, 41
17	Clovers, comparison of species.....	“	x	15
23	Rotation, University experiments continued.....	“	x	8, 12, 31, 37
65	Wheat, quantity of seed per acre.....	1888-9	x	11, 17, 22, 34, 41
67	Wheat, depth of sowing.....	“	x	17, 22
71	Corn fodder, effect of ripeness.....	“	x	31
84	Oats, testing varieties.....	“	x	7, 12, 19, 23, 34, 41
89	Corn, cross fertilization of.....	“	x	21, 25, 31, 37
90	Corn, rate of growth.....	“	x	13, 20, 25, 31, 42
116	Wheat, test of varieties.....	1890-1	x	17, 22, 34, 41
134	Corn, effect of removing tassels.....	1891	x	20, 25, 37
139	To improve and produce varieties of cereals.....	1891-2	x	“
145	Oats, mixing varieties when sowing.....	1892-3	x	“
155	Forage plants other than grass and clovers, trials of.....	1894	x	“
156	Tile drainage, trials of in southern Illinois.....	“	x	“
163	Corn, listing.....	“	x	37
164	Corn, amount of water required for one pound of dry matter in crop.....	“	x	“
165	Corn, improvement by selection and careful breeding.....	“	x	“
166	Corn, companion and catch crops for.....	“	x	“
167	Soil experiments with field crops.....	“	x	“
168	Clover, red, establishing varieties by selection.....	“	x	“
169	Irrigation.....	“	x	“
172	Kafir corn, as a grain and forage plant.....	1896	x	“
173	Management of stiff clay soil at Odin and Edge-wood.....	“	x	“
<i>Feeding Experiments.</i>				
37	Cost of production of young steers.....	1887-8	x	9, 16, 36
28	Cost of production of young colts.....	“	x	“
146	Pigs, comparison between wheat and corn in feeding.....	1892-3	x	“
150	Cows, economic methods in feeding.....	“	x	“
170	Digestibility of some foods for cattle tested.....	1894-5	x	43
<i>Dairying Experiments</i>				
106	Milk tests, investigation of.....	1888-9	x	9, 18, 27
132	Milk production, how affected by a grain ration fed to cows on grass.....	1891	x	24
135	Milk production, how affected by an increasing grain ration.....	1891-2	x	24
138	Milk, acidity of, requisite for highest product of churn, and methods of producing that degree of acidity.....	“	x	32, 33
151	Variations in milk.....	1892-3	x	24
171	Pasteurizing cream and milk, methods.....	1894-5	x	“
<i>Tree Culture—</i>				
31	Orchard, soil cultivation and management.....	1887-8	x	“
33	Apples, testing new varieties.....	“	x	21
34	Apples, testing new varieties by top grafting.....	“	x	“
35	Apples, testing hardness of root-grafted and double-worked trees.....	“	x	“
36	Pears, testing new varieties.....	“	x	“
37	Plums, testing new varieties.....	“	x	“
38	Cherries, testing new varieties.....	“	x	“
39	Forest trees, growing of.....	“	x	26
79	Testing and improving native fruits.....	1888-9	x	21
80	Testing the effects of stock and scion upon each other.....	“	x	“
91	Peach trees, winter protection of.....	“	x	“

Table Showing Experiments—Concluded.

No. experiment	Class and title of experiment.	When begun...	In progress...	Reported in bulletins Nos.
	<i>Tree Culture—Concluded.</i>			
102	Trees, protection from mice, rabbits and insects...	1889	x	.....
114	Apple trees, methods of propagation by whole and piece roots .....	1890	x	21
126	University experiment orchard .....	1887-8	x	.....
127	Orchard, soil cultivation and management of young trees .....	1891	x	.....
174	Investigation of pear blight .....	1896	x	.....
	<i>Vine Culture—</i>			
40	Grapes, testing new varieties .....	1887-8	x	21, 28
41	Grapes, methods of training .....	"	x	28
42	Grapes, soil treatment .....	"	x	21
	<i>Small Fruit Culture.</i>			
43	Blackberries, testing varieties .....	1887-8	x	21, 30
44	Raspberries, testing varieties .....	"	x	21, 30
45	Strawberries, testing varieties .....	"	x	.....
46	Strawberries, method of management .....	"	x	.....
52	Raspberries, soil management .....	"	x	21, 30
	<i>Gardening—</i>			
48	Beans, testing varieties .....	1887-8	x	21
49	Sweet corn, testing varieties .....	"	x	4, 8, 13
108	Potatoes, investigation of their diseases .....	1890	x	40
109	Potatoes, investigation of rot in .....	"	x	.....
141	Potatoes, test of varieties .....	"	x	40
153	Potatoes, use of commercial fertilizers upon .....	1892-3	x	40
154	Corn, use of commercial fertilizers upon .....	"	x	.....
	<i>Tree and Vine Culture—</i>			
55	Fungicides, use of .....	1887-8	x	15, 21
51	Insecticides, use of .....	"	x	.....
	<i>Miscellaneous—</i>			
75	Record of soil temperatures .....	1888-9	x	.....
76	Meteorological record from August 17, 1888 .....	"	x	.....
92	Canada thistle, extermination of .....	"	x	21
93	Fruits, production of new varieties from seeds .....	"	x	.....
107	Woods, testing durability of .....	1889	x	.....
105	Investigation of a bacterial disease of corn .....	1887-8	x	6
120	Cross fertilization of plants, testing effects of .....	1890-1	x	21
129	Investigation of red rust in blackberries and rasp- berries .....	"	x	29
158	Chinch bugs, investigation of their contagious dis- eases .....	1894	x	33, 38
159	Study of the life history and method of treatment of smut in broom corn .....	"	x	.....
160	Study of economic parasitic fungi of Illinois .....	"	x	40
161	Study of histological structure of corn .....	"	x	.....
162	Study of the weeds of Illinois .....	"	x	35, 39

THOMAS J. BURRILL,  
President of Board of Direction.

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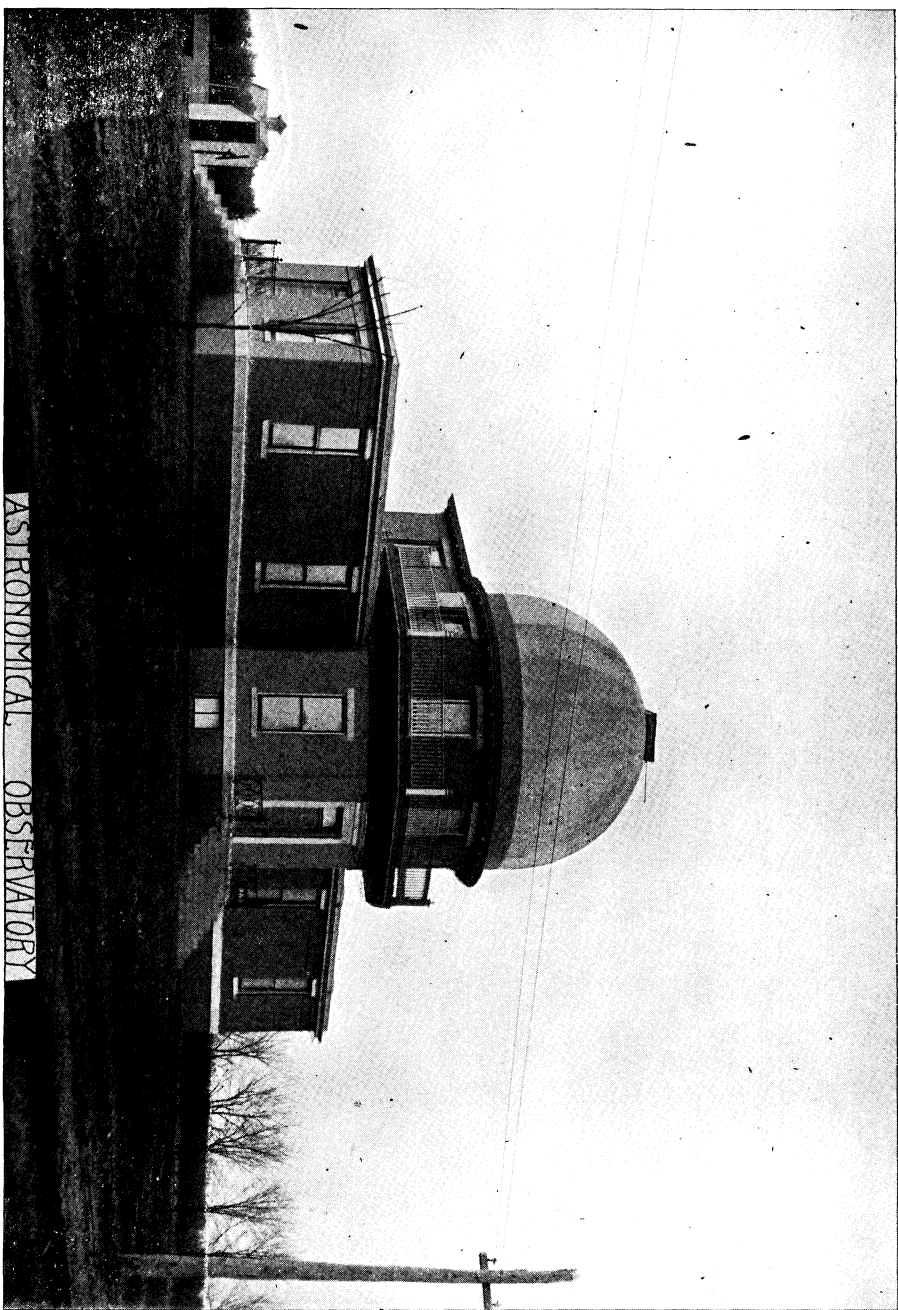
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Wood, R. A., appointed instructor in mechanical engineering.....	121
Zinkeisen, Frank, appointed assistant professor of history.....	95, 102
Resignation.....	179

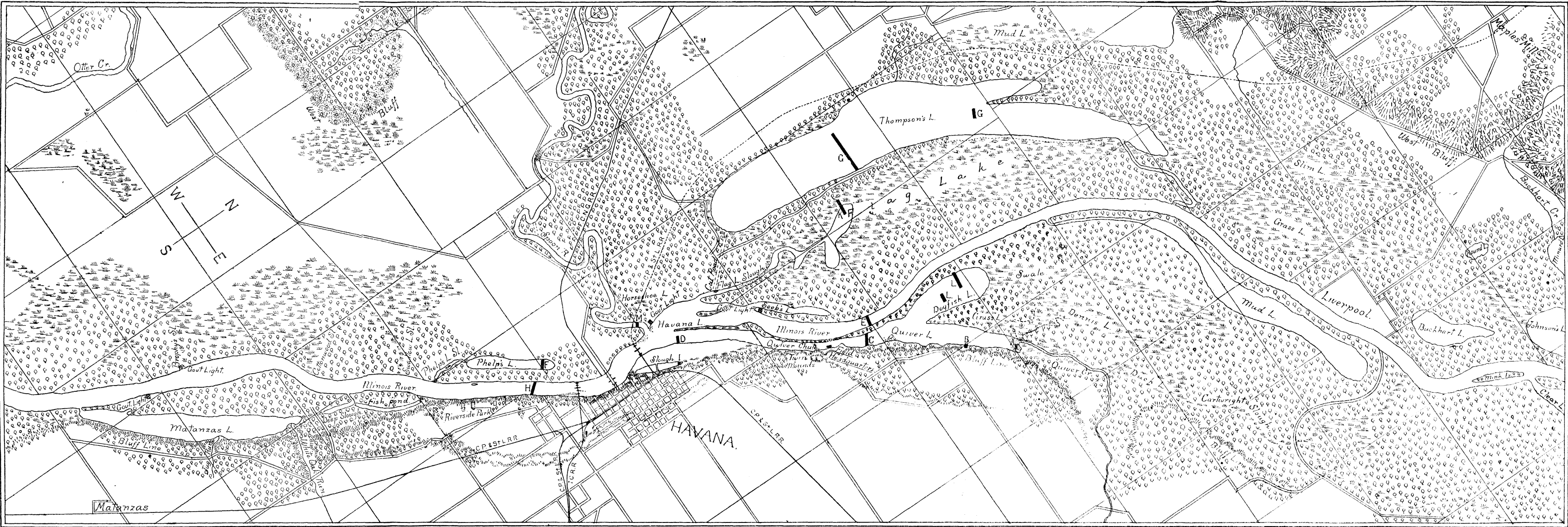


ASTRONOMICAL OBSERVATORY

FIELD OF BIOLOGICAL STATION OPERATIONS. LOW WATER.

AFTER U. S. GOVERNMENT SURVEYS, REVISED BY MEMBERS OF THE STATION STAFF.

DRAWN BY LYDIA M. HART.



Wagon Road  
Bluff  
Substation.

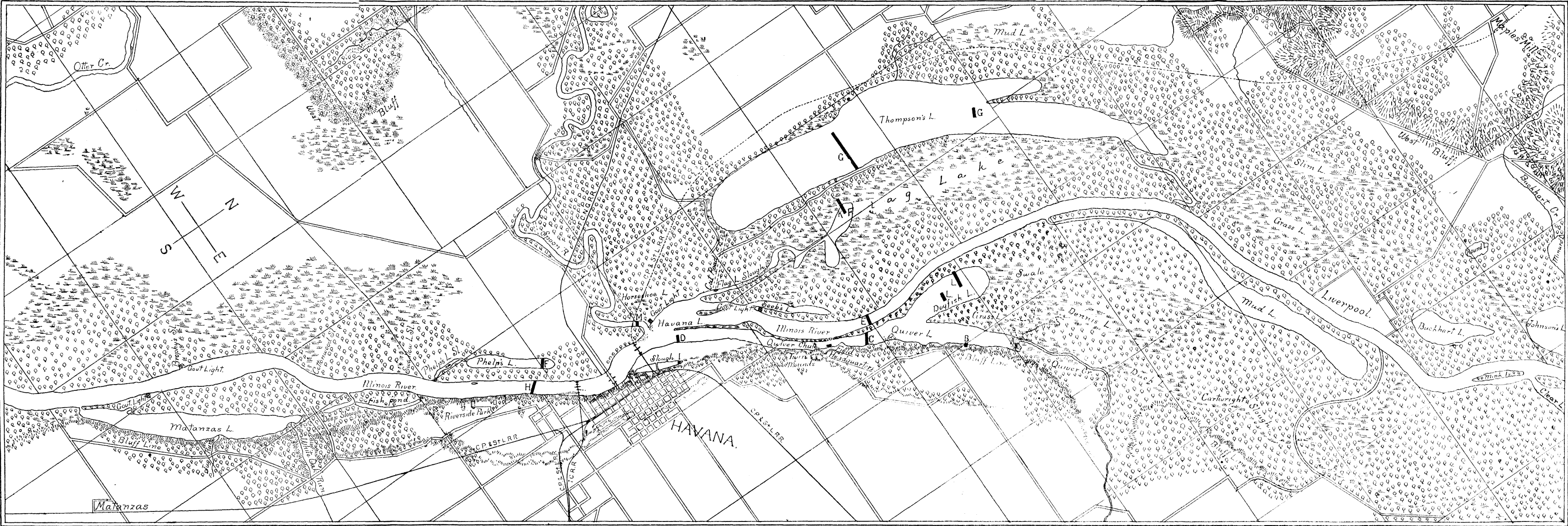
Scale of Miles.  
1/4 1/2 1 2

Marsh  
Forest.  
Sandbar.

FIELD OF BIOLOGICAL STATION OPERATIONS. LOW WATER.

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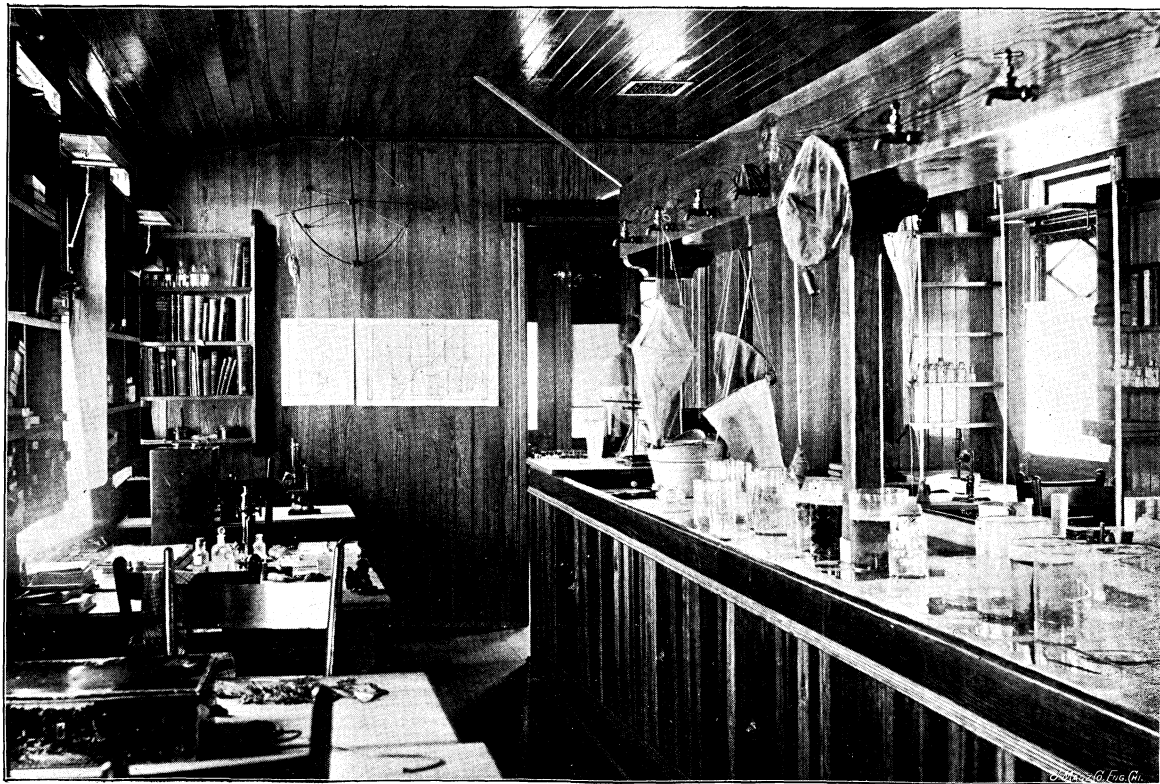
Marsh  
Forest  
Sandbar.



FIELD HEADQUARTERS, FOOT OF QUIVER LAKE.



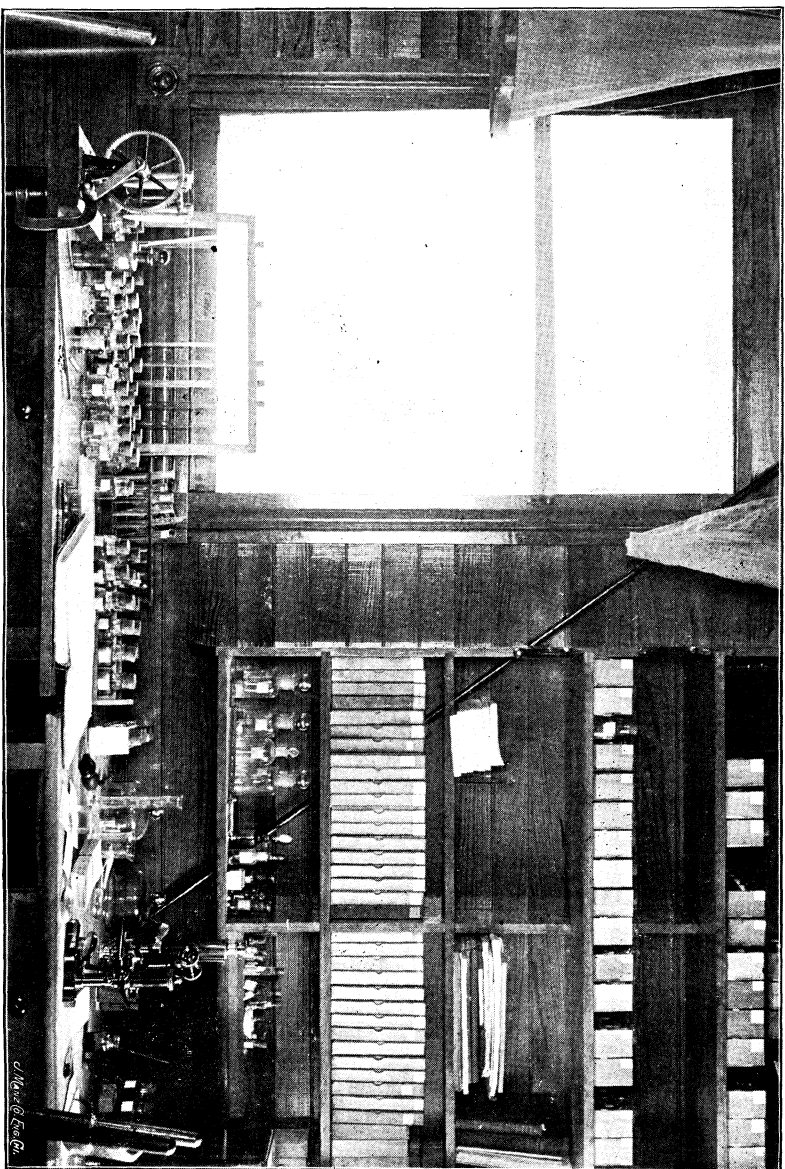




MAIN ROOM OF LABORATORY BOAT.

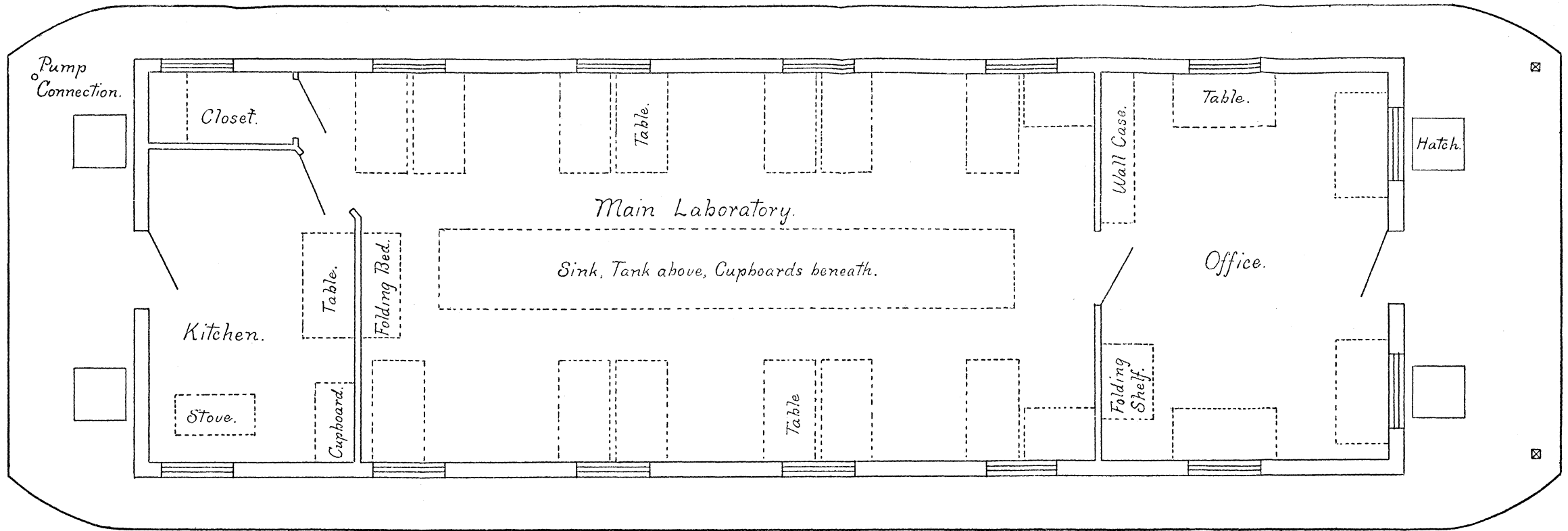




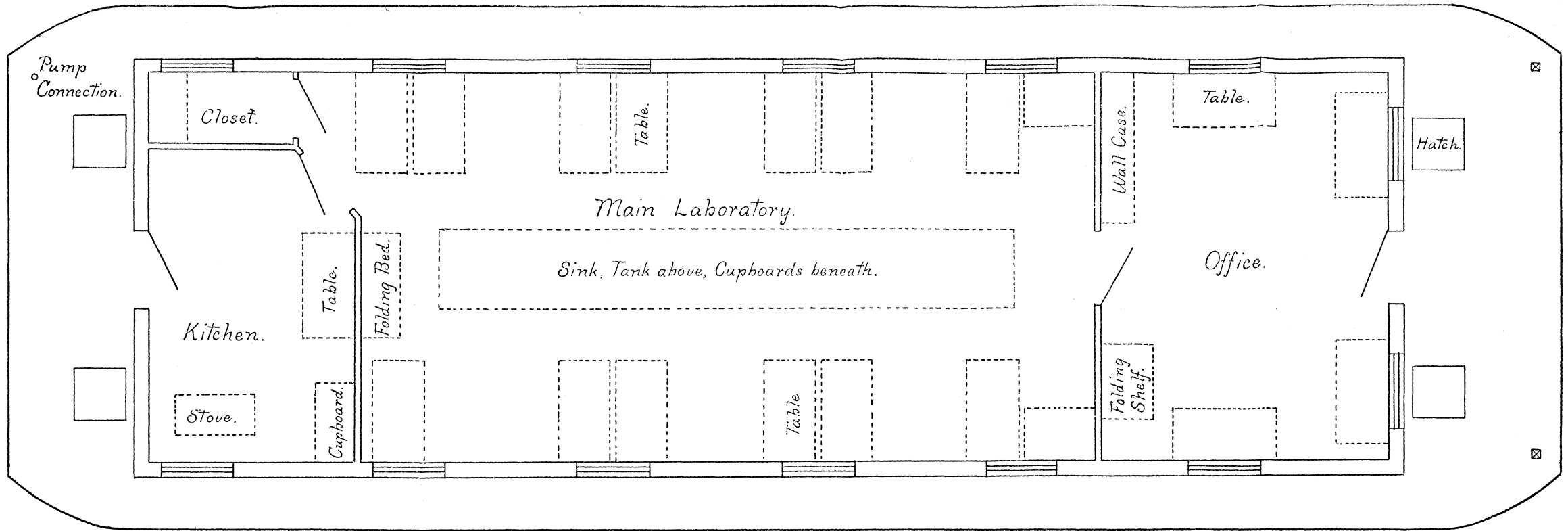


STAFF ROOM IN LABORATORY BOAT.

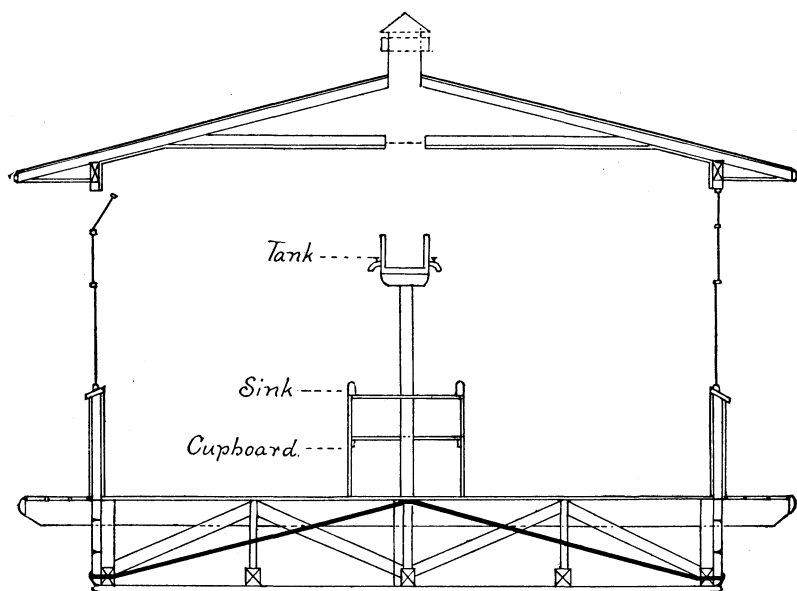
*W. H. K. & Co. Ch.*



Plan of Cabin.



Plan of Cabin.



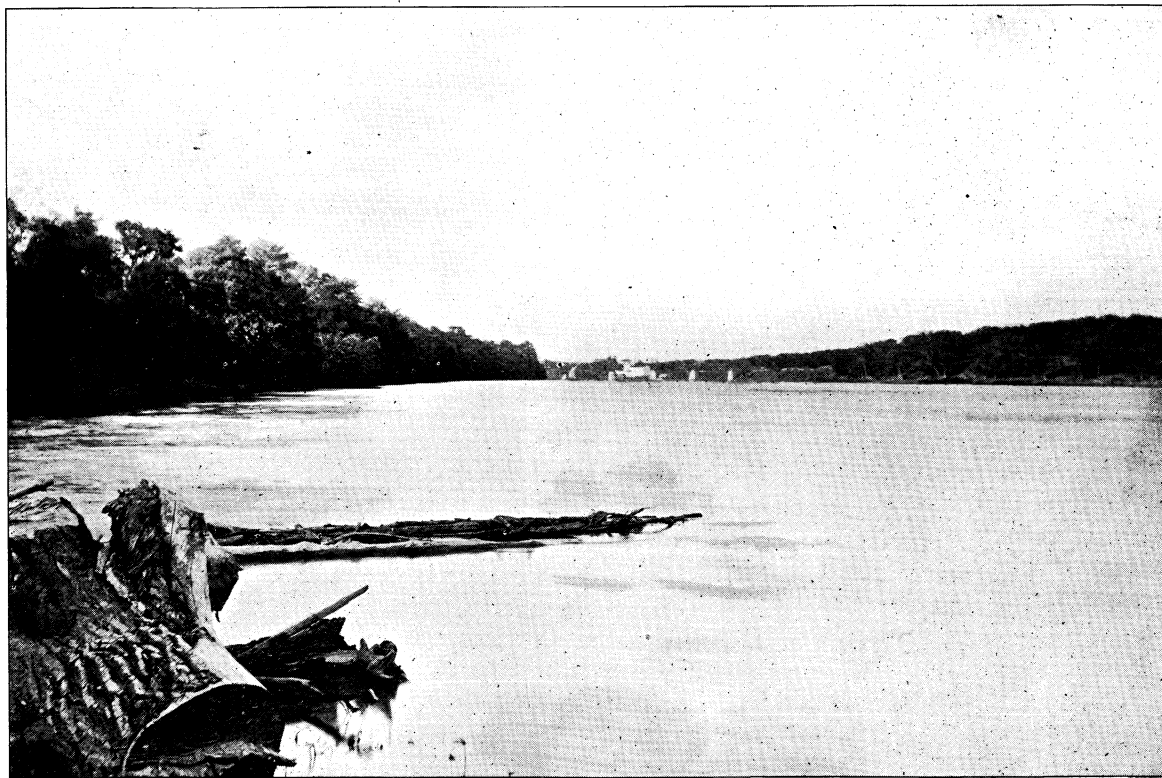
*Cross Section of Cabin.*





TAKING A PUMP PLANKTON, ILLINOIS RIVER.

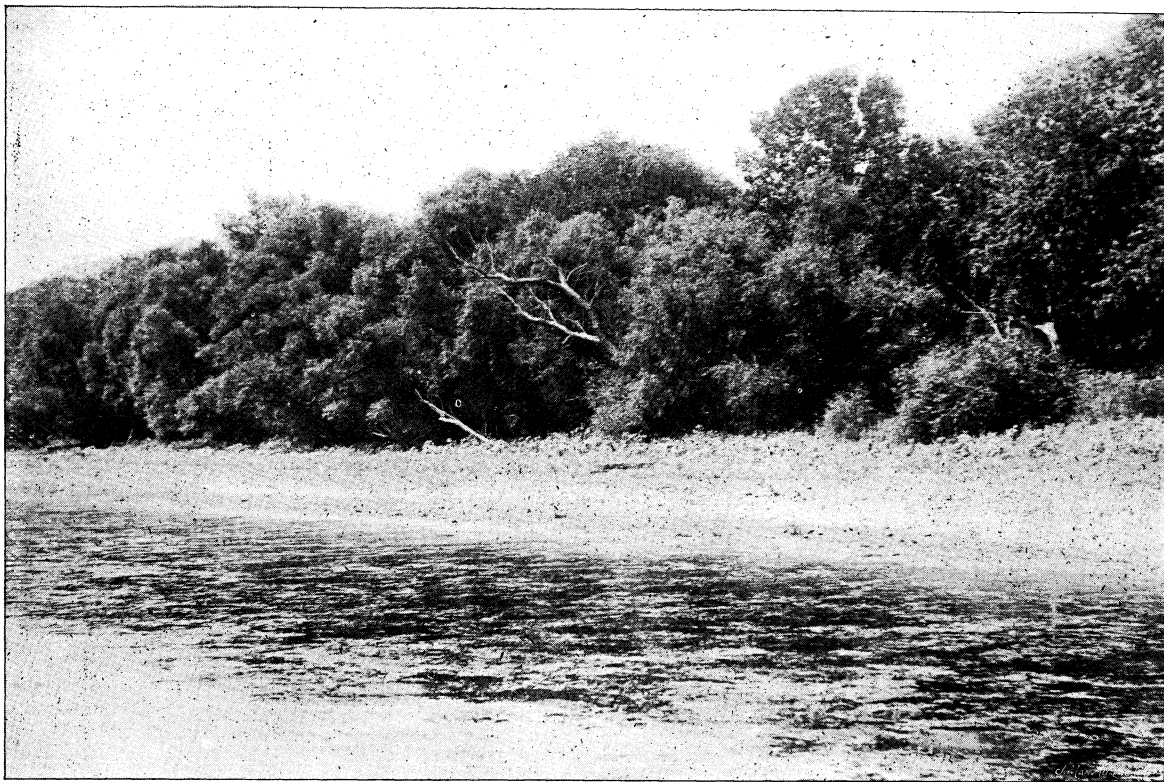




ILLINOIS RIVER, LOOKING NORTH TOWARDS HAVANA.

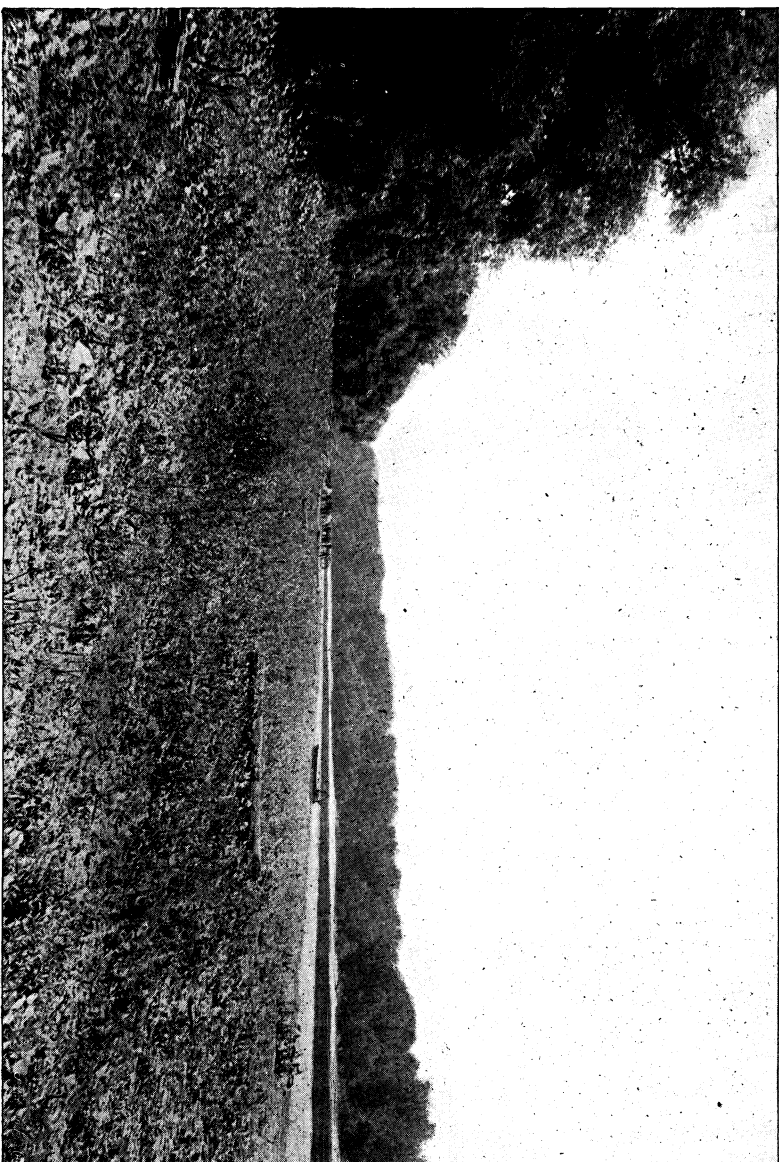






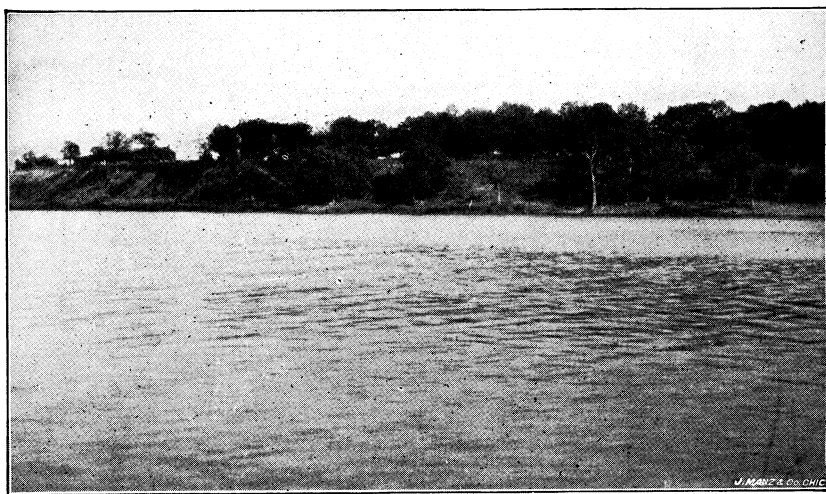
WEST BANK OF RIVER. SUBSTATION E.



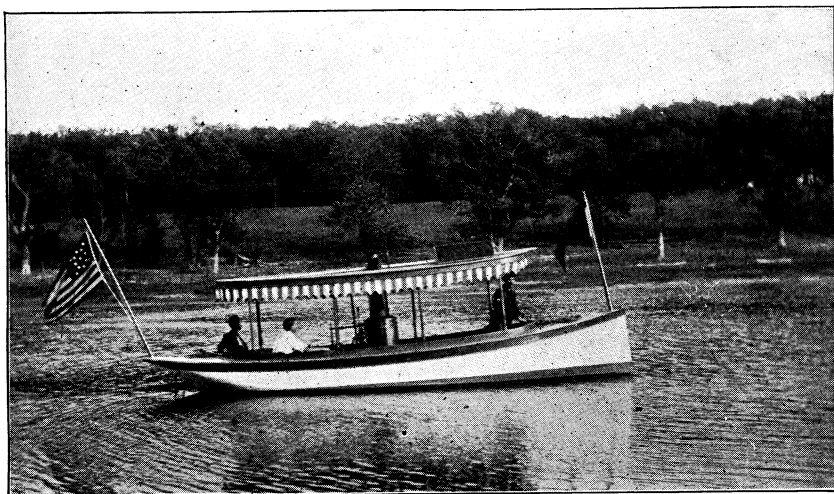


EXPOSED SLOPE OF WEST RIVER BANK AT LOW WATER.



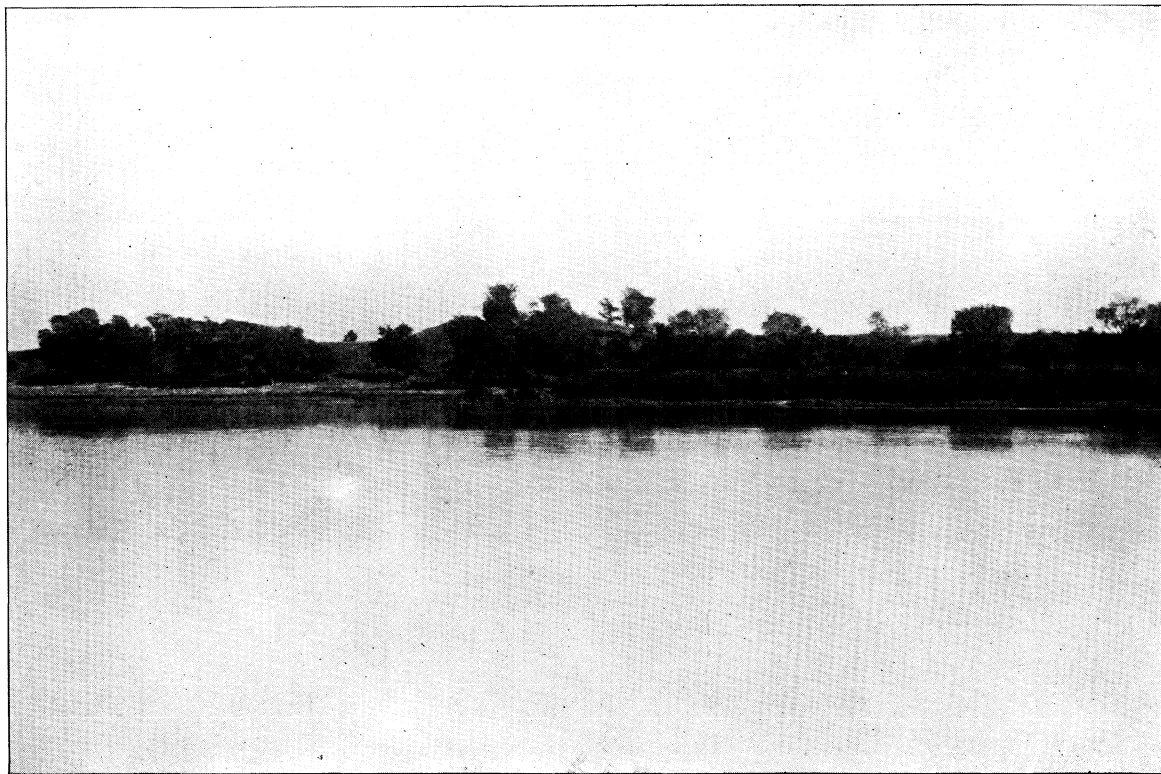


EAST BANK OF ILLINOIS RIVER. SUBSTATION H.



STATION LAUNCH, IN QUIVER LAKE.





EAST BANK OF QUIVER LAKE. TWIN MOUNDS.

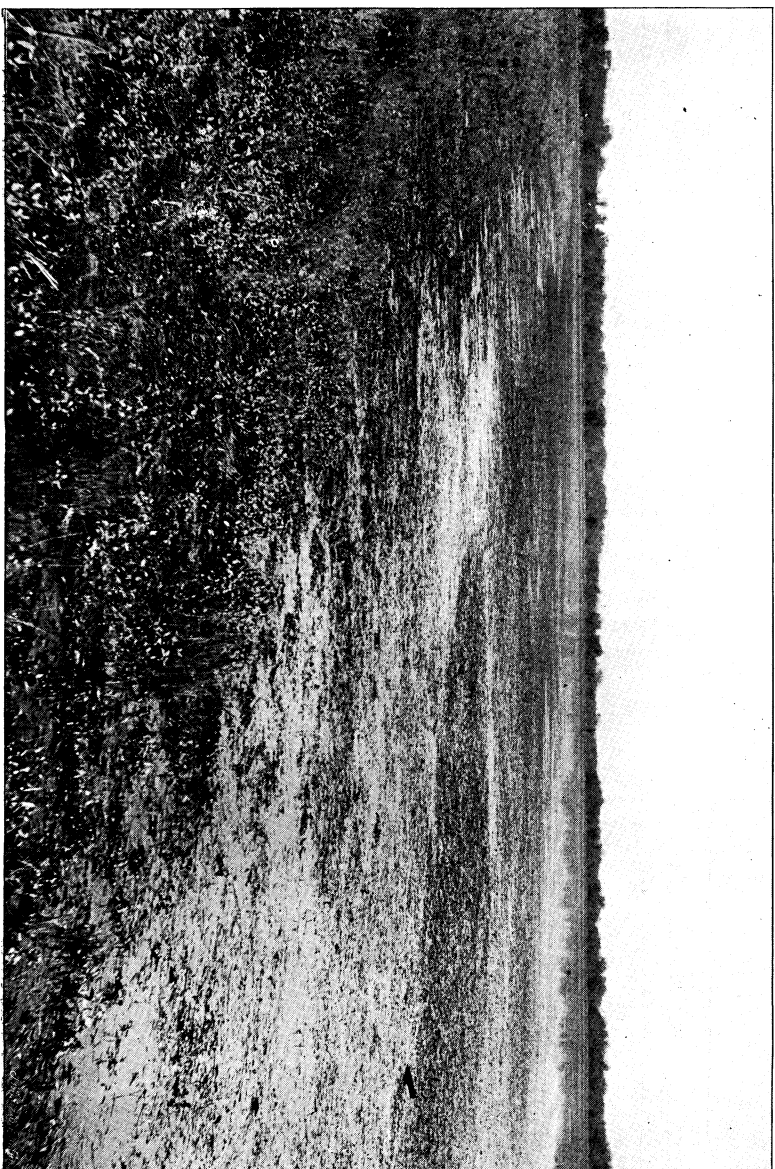






QUIVER LAKE, SUBSTATION C. MIDSUMMER.





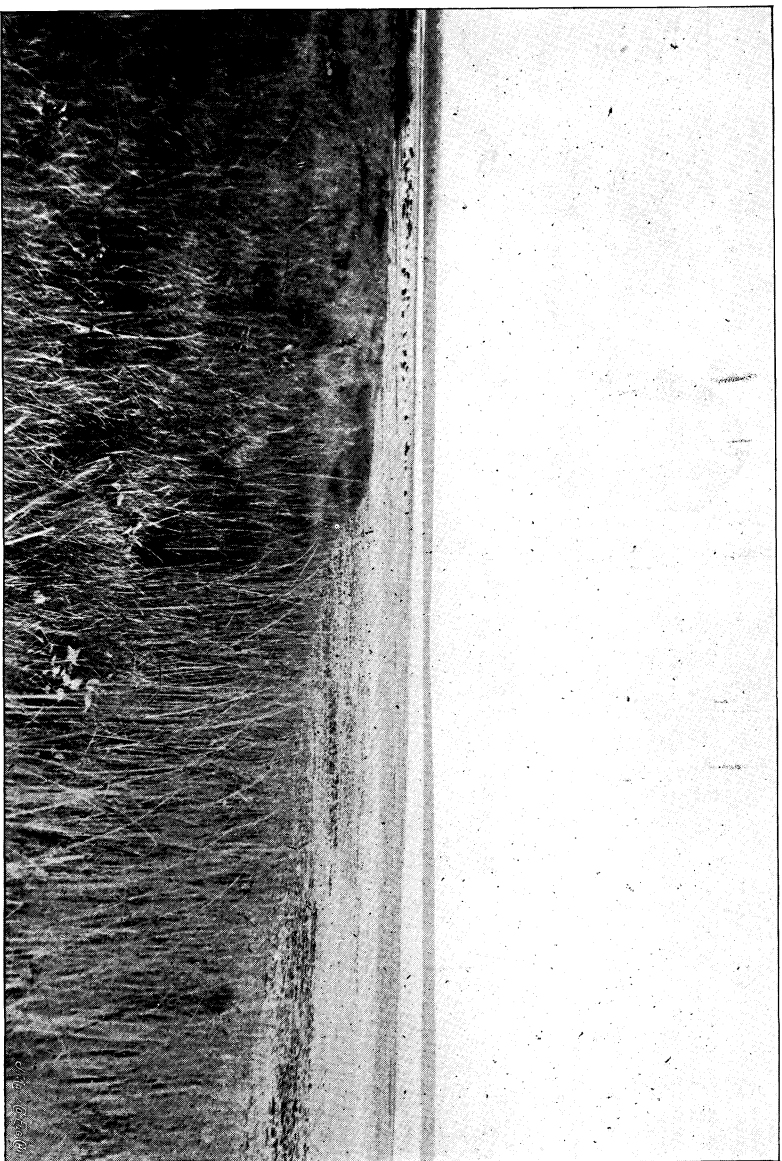
DOGFISH LAKE. MIDSUMMER.





FLAG LAKE, LOOKING NORTH.





THOMPSON'S LAKE, LOOKING SOUTH.







DEEP SLOUGH, NEAR MATANZAS LAKE.



QUIVER CREEK, ONE MILE FROM LAKE.





SPOON RIVER, NEAR ITS MOUTH.





BOTTOM-LANDS AT HIGH WATER.





BOTTOM-LAND FOREST, NEAR MATANZAS LAKE.



