

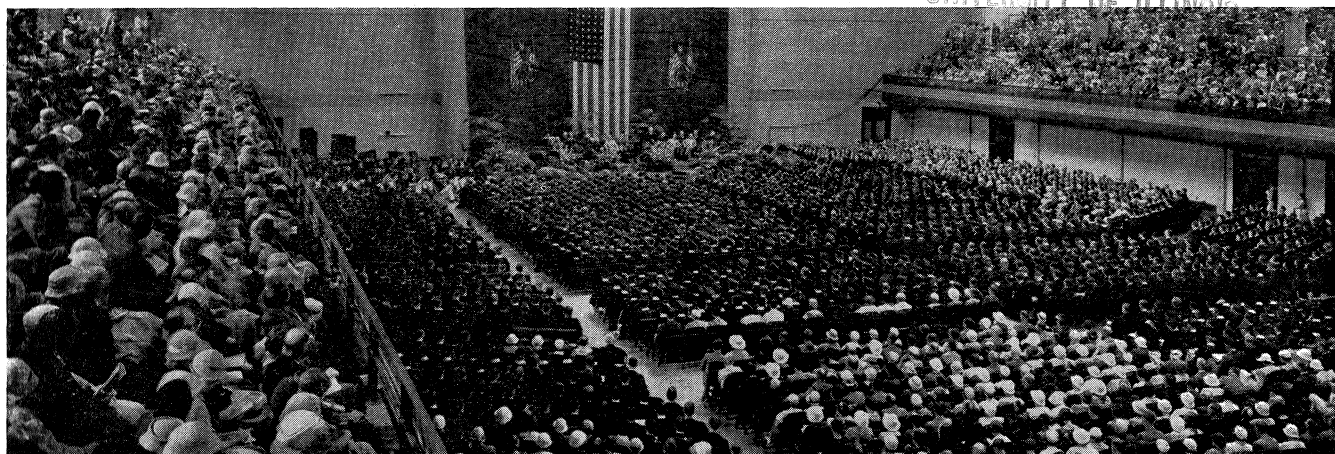
UNIVERSITY OF ILLINOIS BULLETIN

PUBLISHED WEEKLY BY THE
UNIVERSITY OF ILLINOIS

SECOND FOUNDATION NUMBER

MAR 24 1936

Vol. XXXIII, No. 31
Tuesday, March 31, 1936



VIEW OF THE COMMENCEMENT EXERCISES IN THE NEW GYM ON THE GRADUATION OF THE CLASS OF 1935. THE CLASS, in cap and gown, is seated in front, center and side sections; the president, deans and trustees are on the stage at the south end of the hall; relatives and friends of the graduating class completely fill the remaining seats—a group of approximately 6500.

Commencements We Have Seen—Now and Then

COMMENCEMENT at the University of Illinois in this fourth decade of the century is quite a different occasion from what it was many years ago. Naturally, as a pageant, it has grown in dignity and color, but in its significance to those for whom it is the commencement of the career of which they have dreamed, to those who receive their degrees from the University and pass out of its storied halls it is, as it always has been, an event of major importance in their lives.

In early days when the University was young and University Hall was the only significant building on the campus, the graduating exercises were held in the old chapel and every senior must write and deliver an oration for the occasion. History will show that when the Drill Hall, now the Gym Annex, was completed in 1890 the commencement exercises were shifted to this new location and were made the occasion for the dedication of the building. Jupiter Pluvius was a very unwelcome guest on this occasion and proceeded to furnish on the tin roof an overhead accompaniment to the senior orations so vociferous as to drown out completely the eloquence of the seniors as they stormed back and forth across the platform, the well-timed gestures and the movement of the lips being the only evidence to the audience of the

stirring declamations. This Gym Annex served this same purpose for many years until the New Gym was built in 1925. Naturally the plan of having each senior give an oration had been discontinued when the size of the classes made such a plan impossible.

Today the long procession from the library building headed by the band, with faculty and the graduating class, numbering two thousand or more in cap and gown, makes a colorful spectacle and with the parents and guests who are present tests the seating capacity of the Gymnasium of sixty-five hundred. To visualize the difference, contrast the size

of the graduating class of 1935 with that of 1894 (62 graduates) gathered on the steps of old Uni Hall.

To the graduate, however, it is still the same rather solemn occasion on which he technically severs his connection with his alma mater and starts out for himself in the big world about him. When we who have passed through it think it all over, it was quite an occasion and no doubt many were the misgivings in our hearts as to whether we had the stuff it takes to get along and whether the world itself would be kind. Most of us probably have a quarrel with the cartoonist or head-line artist who gives by pen or picture that arrogant, know-it-

all demeanor to the college graduate. If truth be known, they are all a bit weak in the knees and have funny feelings over the prospect of wrestling the big world at catch-as-catch-can for even a small fraction of the gate receipt. Let us hope the task of the graduates of 1936 will not be so strenuous as those of the past few years. Let us hope that their experience proves a college education has given them a well-ordered brain capable of sustained and logical thinking along any lines, even in fields for which they may not have been specifically prepared, and that each can take his place in his own community and contribute largely to its well-being.



CLASS OF 1894, NUMBERING SIXTY-TWO, GATHERED ON THE STEPS of University Hall. Obviously, this was a period when the derby hat was extremely popular among the men. The ladies will get a smile out of the style of dress shown by the small group of women graduates in the center. Several very well-known graduates may be distinguished in this group. Pick yourself out '94.

University Foundation Plans and New Duties

THE Foundation is working quietly to perfect its organization and broaden its influences. This bulletin is the second of a series to be issued from time to time with the idea of giving information regarding the University and its affairs to as large a body of graduates and former students as possible. The Executive Director is glad to report that he has made a few

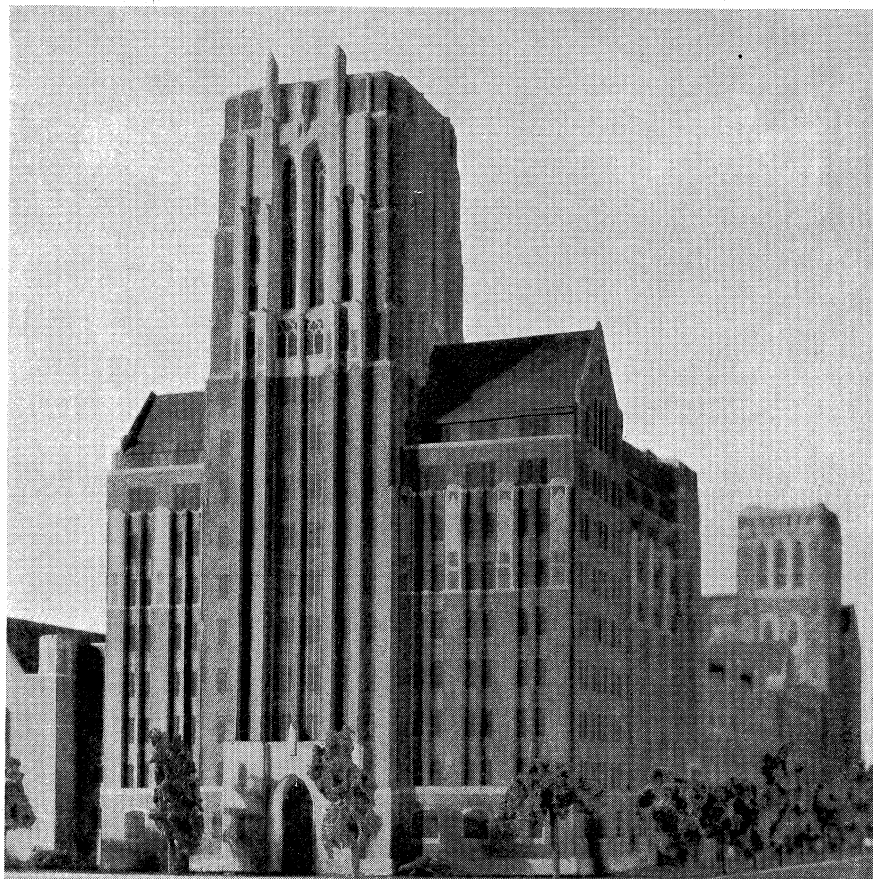
calls on individual alumni and has received several thousand dollars' worth of pledges which will be reported in due time. Other alumni, while not committing themselves at this time, have assured the Director of their interest in the building up of the Foundation and their hope that when the campaign is started a little later in the year they will be able to subscribe. We are pleased to

report that, in addition to the pledges above mentioned, a subscription of \$50 a year for five years and one of \$50 a year for two years have been received. Also two checks for \$5 each have been received without solicitation, that is, in advance of any definite request for gifts to the Foundation. These gifts, we hope, are the visible evidence of a reaction which permeates the whole alumni body, expressing a desire to contribute to the upbuilding of the University. We are particularly appreciative of those subscriptions for more than one year and we hope by this method a policy will be developed of contributing annually to your alma mater as automatically as you do to your church or your favorite charity.

Senior class memorial. The undergraduate body has shown interest in the Student Union project. The graduating class of 1936 is thoroughly alive to its opportunity to be the first class to contribute as a unit to the building of this new Student Union. At a recent meeting with a group of class officers, there were present Miss Mildred Fisher, President of the Woman's League; Miss Arlene Reeves, President of the Women's Group System; Miss Esther Deutsch, Woman's Editor of the *Daily Illini*; Robert D. Armstrong, President of the Student Alumni Association; Joe J. Brandlin, Secretary of the Student Alumni Association; Richard Fulmer, President of the Illinois Union; Elbert Herron, Editor of the *Daily Illini*; and Ben F. Railsback, Editor of the *Illio*. They all expressed their desire to cooperate and promised a vigorous campaign by which to create for this project a substantial class memorial which will set a worthy pattern and will be a stimulus to underclass men and women. Furthermore, there is no doubt that when the time comes the organized groups such as the Illinois Union, Women's League and fraternity and sorority groups will rise to the occasion and help in building this new home for themselves. Through the aid of the present Union Building, they have all sensed the convenience of having a real student center and are tremendously interested in the new project.

To give a concrete idea of what a good union can mean to the student body, we wish to give some facts in regard to the first Union building, Houston Hall at the University of Pennsylvania. This sterling institution has just observed its 40th anniversary. An average of 6500 students pass through its doors daily while the university is in session. Eight undergraduate organizations have their permanent headquarters in the building and nearly fifty others hold their meetings there. During the last scholastic year more than sixteen hundred lectures, group meetings, dances, dramatic productions, luncheons and other events were held within its doors and contributed to the intellectual and social life of the student body. Reading rooms, lounging rooms and game rooms are in constant demand. Although erected in 1896, the building has undergone extensive renovations from time to time to increase its serviceability as a social center. The building contains a student store, cafeterias and other dining facilities and an auditorium seating about four hundred people.

Medical and Dental College Laboratories Building



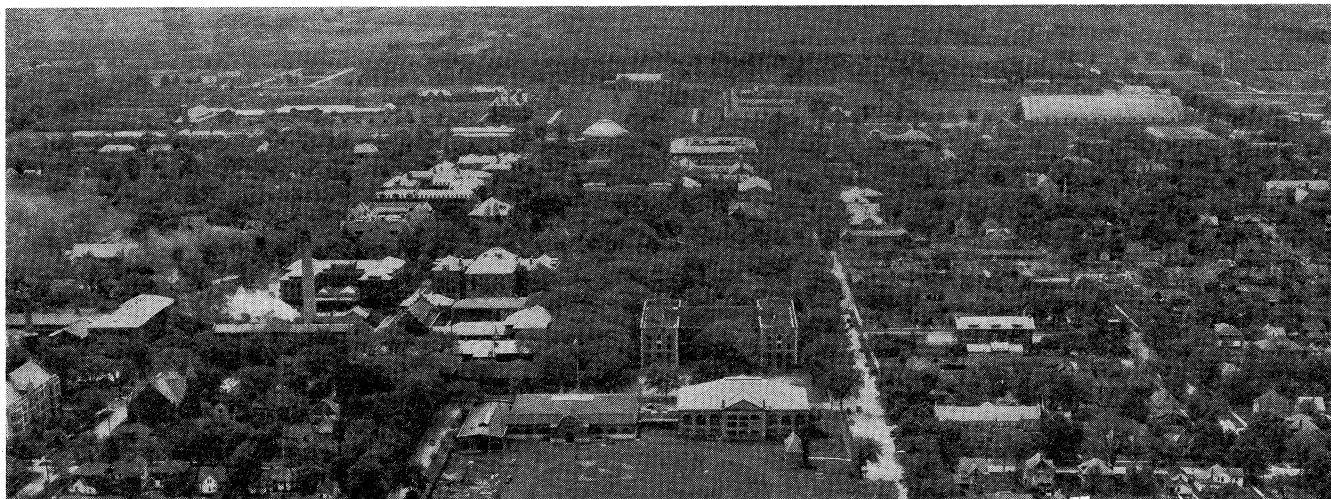
EAST ELEVATION OF THE NEW MEDICAL AND DENTAL COLLEGE LABORATORIES Building, fronting on Wood Street, Chicago. Of Gothic Architecture, the same as other buildings in the group. The building will complete the Polk Street front and give ample room to house the College of Dentistry and give added room for Medical Research. Ground was broken early in January, and at the date of the issue of this bulletin eleven hundred piles have been sunk, the general excavating is completed and they are pouring the concrete for some of the footings as the weather permits.

THE preliminary details for the new Medical and Dental Unit on our Chicago campus are being rushed to completion. The general contract has been awarded to the J. W. Snyder Company of Chicago for \$952,610. Other contracts for elevator and entrance enclosures, for electric wiring, plumbing, heating and ventilating, amounting to \$370,500, have also been awarded. The total cost of the building will be in the neighborhood of \$1,500,000. The Federal Government has made an outright grant of \$366,000 and has offered to loan the University \$1,091,000 to finance this building, the loan to be spread over a period of twenty years. This does not include laboratory equipment to be provided for later.

This beautiful building will completely

house the University of Illinois College of Dentistry and also will give added quarters for the Medical Department.

Foundation Appointed Trustee of Project. The Foundation is glad to report that it has been officially appointed as co-trustee on this Public Works Administration Project by the University of Illinois with the approval of the Government. Some bank will be appointed as trustee to represent the bondholders. This trusteeship is interesting as an opportunity for the Foundation to exercise one of its functions outside of mere fund-raising or the acquirement of other types of gifts and bequests. By acting in this way as the agent of the University, it simplifies the process of trusteeship and makes possible a much closer cooperation than might otherwise be obtained.



AIRPLANE PICTURE OF MOST OF THE UNIVERSITY CAMPUS LOOKING SOUTH FROM THE OLD GYM. THIS AND THE Gym Annex are in the front center with the new Testing Laboratory just south. Power house and various Engineering laboratories are shown in front at the left. Continuing south on the left we find Natural History, Chemistry, Chemistry Annex, Old Agriculture, Music Hall and New Ag. At the extreme left rear are the Women's Residence Halls and Woman's Gym. The round dome of the Auditorium looms up in the center with Old University Hall, Law, Administration, Woman's Building and Lincoln Hall on the right. The Library, Commerce and Administration at the rear center and the Armory and Stadium tie up this view with that shown in Bulletin No. 1.

Noteworthy Gifts to Other Institutions

THE Rackham Foundation, which gave to the University of Michigan \$5,000,000 for the extension and development of its Graduate School, has increased this gift to \$6,500,000 in order to make thoroughly adequate the development contemplated.

Gifts to the University of Chicago during the month of December amount to over a quarter of a million dollars, including a contribution of six thousand volumes to the university library. The largest anonymous benefaction is for \$100,000 to be added to the endowment for teaching and research in chemistry. Included is a gift of \$85,000 from the trustees of the estate of Max Pam for the creation of a professorship in comparative law.

Northwestern University and its friends are thrilled over a recent gift of \$7,000,000 from the estate of Roger Deering, whose grandfather gave the magnificent Deering Library already on the campus. This gift will be used for endowment only, none of it being used for any of the new buildings on the campus.

Harvard University is making some extensive plans for its 300th anniversary in September 1936. It is taking steps to organize what is called a tercentenary fund, two features of which will be *university professorships* provided for by independent foundations of \$500,000 each; and the other, *prize scholarships* for which endowments are provided by bequests of \$25,000 each. One university professorship has already been donated by Thomas Lamont of New York. It is our understanding that the university professorships will not necessarily be a rigid part of the various departments in which their work will be carried out but will operate more as free lances and the income from the \$500,000 donation will take care of a separate unit including the professor's salary, assistants and various laboratory facilities, so as to allow the utmost freedom in virgin fields of research.

The prize scholarships have in plan the idea of placing two scholarships in

every state in the Union. These scholarships will, by their competitive feature, enable Harvard University to gather a group of young men of exceptional ability and give them the benefit of the highest facilities as developed at Harvard University. This plan has been already carried out in part, last fall's freshman class having eleven such scholars chosen from the states of the Middle West. Our University High School is particularly fortunate in having James Tobin, son of L. M. Tobin of the Athletic Department as one of the two senior scholars chosen from the state of Illinois and Richard Noyes, son of Professor W. A. Noyes as a junior scholar under the same system.

It is understood that the tercentenary fund will be used exclusively for developing this plan as stated, none of it being diverted to new buildings or equipment.

Harvard University has also received a recent gift of \$2,000,000 from Lucius N. Littauer of New York City for the establishment of a Graduate School of Public Administration.

Yale University was recently bequeathed \$1,000,000 by the will of Charles Howard Warren, formerly treasurer of the Mutual Life Insurance Company, as a memorial to his son. The bequest is to aid young men of limited means in securing educational advantages.

Recent Gifts to the University of Illinois

Quite a number of gifts have been reported by the Board of Trustees during the first six months of the fiscal year. While there is insufficient space to list all, some of the more important of these are as follows:

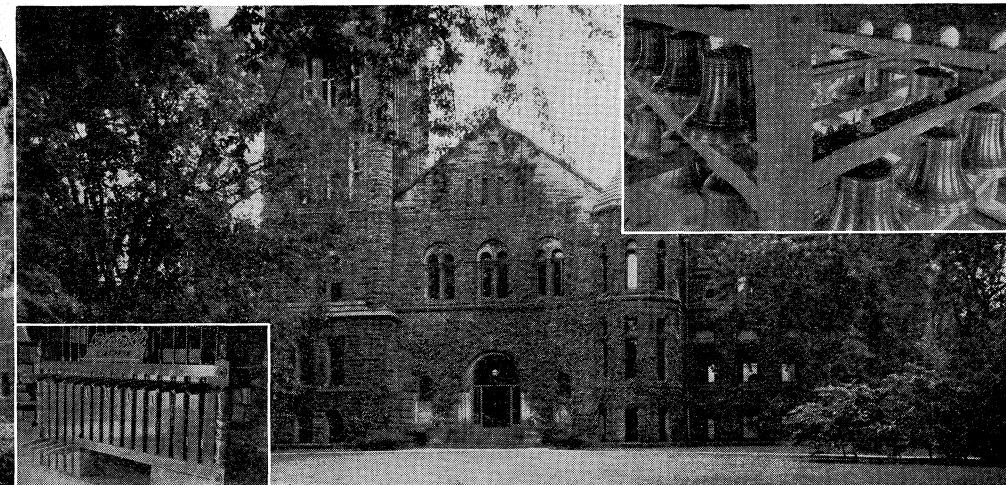
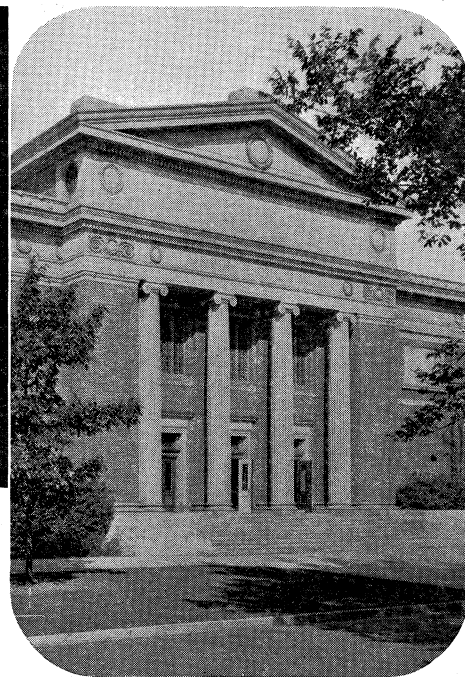
Abbott Laboratories; for research in chemistry.....	\$ 300.00
Federal Cartridge Company; for promoting 4-H Clubs.....	500.00
Frigidaire; some air-conditioning apparatus for the Warm Air Heating Residence.....	300.00
Oscar Mayer; 2 Paintings to be hung in the Student Center Union Building.....	
Mrs. F. L. Stevens; 4,000 pamphlets from the Library of the late Professor Stevens for the Department of Botany.....	
Student organizations to the Student Center for furniture, games, etc.....	585.00
C. B. Young, '91, Estate; a bequest of the bulk of his estate for furthering education of women in the University available at the termination of a life interest to two cousins.....	
Helen James Frazer, '11, Winnetka, daughter of former President James; to be used as an endowment for yearly lectures on Government.....	5,000.00
Rockefeller Foundation; to assist Professor Rose in research in amino acids.....	5,000.00

Judge Harker; addition of \$1,000 for law scholarships making a total of \$3,000 endowment for scholarships for law students.....	1,000.00
Prest-O-Lite Storage Batteries Co.; for research work in chemistry for 1935-36. Same was done last year.....	2,000.00
Josiah Macey, Jr., Foundation; for Dr. Culler's work in the Department of Psychology.....	750.00
Textile Foundation; for research work in chemistry.....	600.00
Dr. David Kinley; four rare Chinese embroideries.....	
Standard Brands; for work on skin, continuing research of 1931 and 1933.....	1,750.00
Phenolphthalein Research, Inc., New York; for one year to continue chemical researches sponsored by the same company (\$3000 for the year 1934-35).....	7,500.00
Public Works of Art Project; a collection of etchings and wood block prints owned by the Federal Government but permanently loaned to the University.....	
Ella Sachs Platz Foundation; for College of Medicine research.....	400.00
Mead Johnson & Company; for research in the Department of Surgery.....	200.00
Various instruments from the Sangamo Electric Company, General Electric and the Reynolds Electric Company, total value about.....	285.00



ABOVE—MCKINLEY HOSPITAL, A 75 BED hospital given by the late Senator W. B. McKinley of the class of '76. This hospital has been an invaluable aid in maintaining the health of the University student body.

RIGHT—THE TINA WEEDON SMITH music hall, given by Captain Thomas J. Smith as a memorial to his wife.



LEFT—SENIOR BENCH AND LIGHT PILLAR, memorial to class of 1912, situated north of Lincoln Hall. Portico of Woman's Building shown in background.

ABOVE—LAW BUILDING TOWER, IN which are mounted the fifteen-bell chimes and console (see insets) presented by the classes of 1914 to 1922 inclusive.

THE University of Illinois, while it has received a relatively smaller number of gifts from its alumni and friends than several of its prominent state university neighbors, has had a number of generous contributors during its development.

The most generous of these was an alumnus, William B. McKinley of the class of '76, United States Senator for many years from his native state and the creator and developer of an important traction system. Mr. McKinley gave to the University not only generously of his time but also in more material ways. He created a loan fund of over \$40,000, gave the University the hospital which bears his name at a cost of \$226,000, endowed a professorship in economics at a cost of \$105,000, and in addition to this donated a number of buildings which stimulated the development of the region adjoining the campus, such buildings as the McKinley Y.W.C.A. Hall and the McKinley Presbyterian Church and social center being

notable examples. The McKinley Hospital has proved a most beneficent gift to the University. Through its facilities university students and faculty members are able to obtain at a nominal cost the best of hospital accommodations by paying a small fee yearly for a membership in the Hospital Association. A picture of the hospital is shown on this page.

Captain Thomas J. Smith provided \$190,000 for the Smith Music Building in honor of his wife, Tina Weedon Smith. This building houses the music department of the University and in addition to offices and small sound-proof studios, it has a splendid recital hall seating about one thousand and containing also a fine organ. Captain Smith also endowed four music scholarships for women.

Mr. Wenzel Morava of the class of '78 at his death in 1932 bequeathed to the University a fund of \$80,000, the annual income from which is to provide scholarships for deserving students, one of which shall preferably be of Czechoslovakian origin.

The family of John Philip Sousa presented to the University his entire library of over three thousand compositions. This gift is also referred to on Page 6 of this bulletin.

Boetius H. Sullivan gave to the University as a memorial to his father, Roger C. Sullivan, \$40,000 for a radio broadcasting station.

Francis J. Plym of the class of '97 has given something over \$50,000 to provide one fellowship in architecture, competition prizes for sketches in architectural engineering and a foreign

scholarship in architectural engineering. The fellowship stipend is \$1200 awarded annually by competition and the holder of this fellowship is required to spend a year in study abroad.

The Athletic Department has given to the University a number of very substantial gifts, including additions to the Stadium totaling \$382,400, grading and planting around the Stadium \$90,000, and the Skating Rink including the land \$325,000. The Athletic Association also provided the funds for financing the Stadium campaign, which amounted to approximately \$250,000.

Robert F. Carr has endowed a fellowship in chemistry with a gift of \$25,000.

There are innumerable small gifts which, while not large from a financial point of view, show a broad interest in

the University on the part of many alumni and friends.

Class memorials have been many and varied and are listed herewith, together with the approximate value of each: '72—Tablet on University Hall, \$25.00; '77—Tree and stone marker near Law Building, \$50.00; '78—Clock in University Hall Tower, \$300.00; '94—Stone tablet on Engineering Hall, \$50.00; '95—Class of 1895 Loan Fund, \$100.00; '00—Senior bench north of University Hall, \$250.00; '02—Boulder fountain north of University Hall, \$100.00; '04—Flagstaff base in front of Gymnasium Annex, \$500.00; '05—Lantern over entrance to Law Building, \$150.00; '06—Sun Dial, \$400.00; '07—Bust of Longfellow, in Woman's Building, \$500.00; '09—Fountain at south entrance to Illinois Field, \$700.00; '10—Celebration Urn in center of Illinois Field, \$500.00; '11—Trophy cases in Old Men's Gym, \$505.60; '12—Bench north of Lincoln Hall, \$1,000.00; '13—Lincoln Hall Gateway, \$2,500.00.

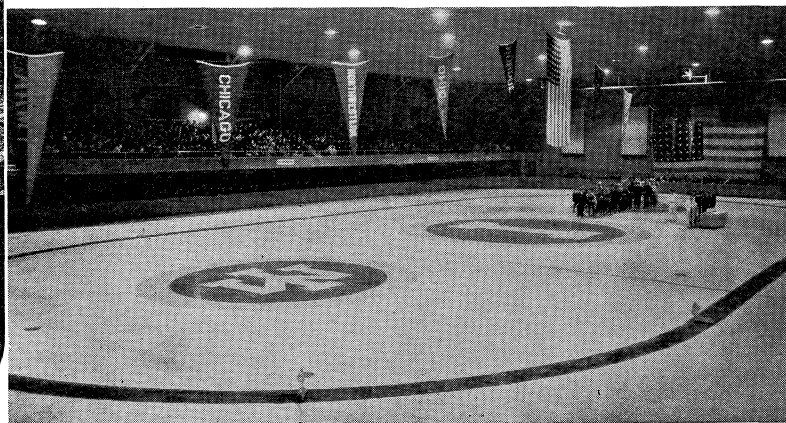
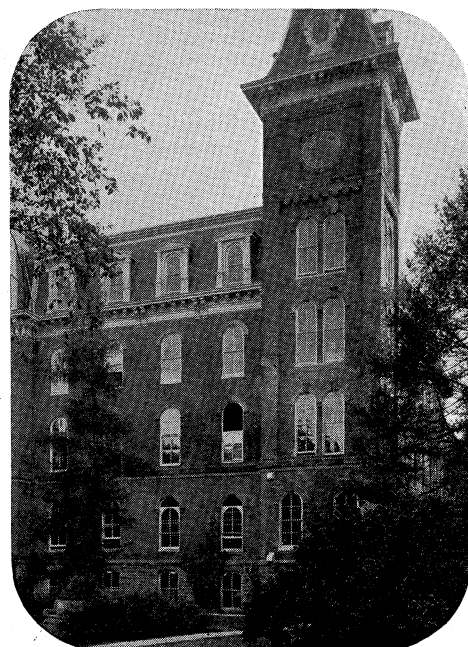
The classes of 1914 to 1922 made possible

the erection of the bells in the tower of the present Law Building contributing gifts as follows: '14, \$1,050.00; '15, \$800.00; '16, \$900.00; '17, \$897.02; '18, \$363.97; '19, \$825.00; '20, \$2,262.69; '21, \$2,735.79; '22, \$2,283.50; '18, also Tree Fund for "President James Avenue", \$60.00; and '22, also contributed to tablet at the base of Law Building tower, \$200.00.

From '23 to '29 the graduating classes gave contributions as listed to the Alumni Fund, which contributions were applied during the 1928-29 campaign for the alma mater statue. Contributions are as follows: '23, \$2,702.00; '24, \$2,509.89; '25, \$2,505.50; '26, \$1,362.57; '27, \$1,501.62; '28, \$1,766.98; '29, \$733.50.

Two major campaigns have been inaugurated among the alumni and friends of the University, one for the Memorial Stadium resulting in contributions of \$1,591,635 from alumni and \$144,000 from friends; and the alma mater group, outside of class funds already mentioned, contributions from alumni only amounting to \$22,877.

The total sum for gifts from all sources is \$4,411,000.

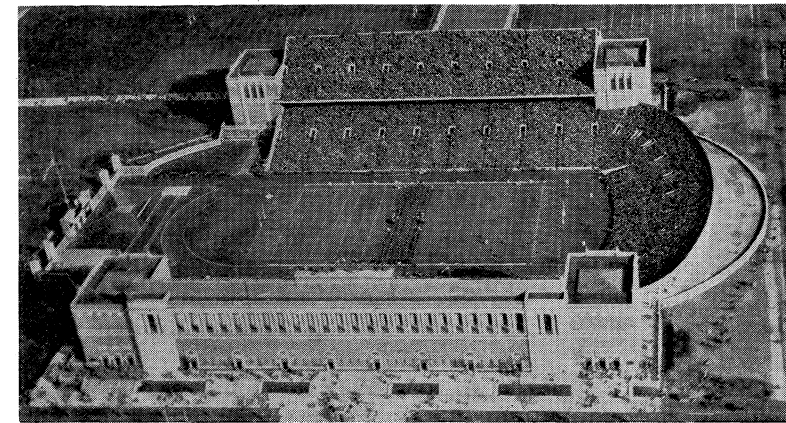


EXTREME LEFT—WEST TOWER OF UNIVERSITY Hall, showing old clock given by the class of '78.

LEFT—UNIVERSITY SKATING RINK. SIZE of floor approximately 200 by 125 feet. This was given to the University by the Athletic Department and furnishes a very adequate and much appreciated form of exercise for the student body. It has been the scene of many interesting hockey games as well as several effective ice carnivals. This view shows the floor decorations for the 1935 carnival, with a group of skaters on the floor and the galleries packed to capacity.

RIGHT—MEMORIAL STADIUM, FILLED to capacity (69,000) at its dedication in 1924 on the occasion of the Michigan-Illinois football game. This concrete structure is completely finished in brick and stone with one hundred stone columns on each side dedicated to students who died in the World War.

EXTREME RIGHT—TAFT ALMA MATER Statue, donated by the sculptor, alumni and the classes of 1923 to 1929.





UNIVERSITY OF ILLINOIS CONCERT BAND AUGMENTED BY THE FIRST AND SECOND REGIMENTAL BANDS FOR SPECIAL numbers. Formation is for special anniversary concert on the stage of the Auditorium, A. Austin Harding directing.

Best University Band in the World

THE University of Illinois Band is a nationally known institution and to the editor of this pamphlet, who was a member of the organization a little under fifty years ago, is a never-ending source of wonder.



Austin Harding

Year after year it survives the losses due to graduation of its oldest and most valuable players, Director Harding always being able to bring forward reinforcements to take the place of those who have gone and to keep the quality

and morale at an extremely high pitch.

This sterling institution will soon be giving its 46th anniversary concert in the Auditorium on the campus and it seems clear to us that we can do no better than repeat portions of the story written by the late Edward Moore, for many years music critic of the *Chicago Tribune*, on the occasion of his visit to the campus to hear the 45th anniversary concert on March 5, 1935.

"The University concert band gave its forty-fifth anniversary concert in the auditorium . . . and with its notes still ringing in my ears, I believe it is the best amateur band I have ever heard in public.

"To speak by the book, there are three bands in the university. The concert band, about one hundred and fifteen in number, is the top. Its members are the aristocrats, the brahmins of the university band world. Beneath them are two other organizations, slightly lower in caste but still deserving well of their alma mater, the first regimental and the second regimental bands.

"Generally the concert band takes the spotlight on concert occasions, sometimes the other bands being called upon for volume or to add their effects in a case like the 1812 overture, the climax of tonight's program. With something like three hundred and fifty musicians, and with the further help of the Director of the School of Music, Frederic B. Stiven, at the organ, there was a mass of tone whose momentum was enough to fairly lift one off one's seat.

"That this striking and altogether in-

spiring and commendable organization of young musicians should exist is due to several causes. One is that the freshman and sophomore classes are subject to military training. If any young man prefers band playing to military tactics, he is permitted to prove that he is able. This might seem to indicate that some of the students become bandmen in order to avoid the duties of drill. The concert tonight indicated that the men were playing because they liked to play.

"Another reason for the band and its excellence is its conductor. This man is the veteran of the University's entire musical staff. He is Albert Austin Harding and he has been director of these bands for thirty years. Mr. Harding knows his job. He is a strict drillmaster, but he is also an inspiring leader, and the men under his baton play as they would probably play for few others.

"Another reason for the ability of the band is this strong library which Director Harding himself has put together in his years of unstinted service plus the entire musical library of that great bandmaster, the late John Philip Sousa, which is now the property of the organization.

"The collection numbers something like three thousand compositions, his own and those of other composers, all scored for band. Tonight's program featured a Sousa work, an unpublished suite, 'People Who Live in Glass Houses.'

Mr. Moore speaks of the high quality of Mr. Harding's concert programs with numbers like Tschaikowsky's '1812 Overture', a whole act from Wagner's 'Siegfried,' and 'Dance of the Seven Veils' from Richard Strauss' 'Salome.' Concluding his story he says:

"One comes from the University of Illinois with a high respect for its development of concert bands."

While the University of Illinois Band performs an extremely important function in the yearly University program, that is, of providing stirring military music, a capella singing, brilliant pageantry for football games, and wonderful concert programs for various occasions throughout the year, its influence, particularly through the activity of its director, is extended far beyond the campus. It broadcasts a concert every Monday afternoon over the University radio station, WILL. It cooperates with the Music Educators National Confer-

ence, the National High School Band Association and the Illinois School Band Association in presenting clinics for bandmasters. In the words of Harold Bachman, a band leader of the first rank, "Professor Harding has done more than any other man to promote the band movement in America." Quoting from a tribute by Carl Stephens, Director of Alumni Relations:

"The conductor feels that the band is essential to college life, and also believes that a band should be on a plane in keeping with the dignity of the University. It is, he says, the center of all college spirit.

"I have attempted to bring the band to the same level as a symphony orchestra and to make it as pleasant to listen to indoors as a symphony orchestra."

"In the refining process he has been careful not to take away the characteristic popular appeal of the band brilliancy. He does not believe that the band could or should ever replace the symphony orchestra. There is a place for both.

"Through his untiring efforts Professor Harding has inspired many young musicians to greater efforts. Today many former Illini bandmen are following the footsteps of their leader.* Seven Illini have gone directly to the former Sousa Band, while others are playing in the Marine Band, Minneapolis Symphony, St. Louis Symphony, Chicago Civic, Chicago Theater and Paul Whiteman's Orchestras."

Director A. A. Harding, '06, has been in charge of the band for thirty-one years. Mark H. Hindsley, Assistant Director, has done a thoroughly fine job as successor to Ray Dvorak, '22, who was assistant director for many years. Graham T. Overgard is Assistant Conductor. Too much cannot be said of the University of Illinois Band as an advertising medium for the University and as a fine influence in developing the love of good music and the fine spirit of loyalty at the University of Illinois.

*To mention a few in university and college work: Glenn C. Bainum, '13 Northwestern University; Ray F. Dvorak, '22, University of Wisconsin; Robert B. Lyon, '29, University of Idaho; George C. Wilson, '31, Kansas State Teachers College; Lyle Downey, '23, Kansas State College; Henry E. Wamsley, ('13), Mississippi A. & M. College; Milburn E. Carey, '35, Phillips University; and Max Krone, '23, former director Arthur Jordan Conservatory of Music, Indianapolis. One hundred or more are in charge of high school, industrial and municipal bands.

Among the Presidents of the University of Illinois

SIGNALLING a recognition of his many scientific achievements in the field of heating, ventilating and air conditioning, honor was paid to President ARTHUR CUTTS WILLARD on January 29 at the Palmer House, Chicago, when the **F. Paul Anderson Gold Medal** was awarded to him by the American Society of Heating and Ventilating Engineers. The Society's Committee on Awards honored Dr. Willard "on his outstanding work as an engineer, a teacher and an author in the fields of heating, ventilating, and air conditioning; for his outstanding consulting service on ventilation of the Holland Tunnel, of the United States Capitol, and of the proposed Chicago Subway; for his outstanding work in research and for the service he rendered to the Society as a member, as an officer and as technical adviser to its Committee on Research."

Dr. Willard's work on the heating and ventilating of the Holland Tunnel in New York with Clifford M. Holland, the designer of the Tunnel, has received world-wide acclaim and the new ventilating principle first used in this tunnel has since been adopted for later constructions of similar kind with great success. Dr. Willard was a pioneer in warm air furnace heating research and through his efforts a typical residence was built for experimental research purposes at the University of Illinois.

The F. Paul Anderson Award was

created by Thornton Lewis, vice president of the Carrier Corporation, in honor of the late F. Paul Anderson, past president of the American Society of Heating and Ventilating Engineers, former director of its Research Lab-

versity of Illinois and the higher education of the state, much more could be said than there is room for here. To him we owe the existence of that excellent Library School which since his day has been a part of the University.



A VIEW OF THREE PRESIDENTS OF THE UNIVERSITY AT A BALL GAME ON Illinois Field. They are, reading from left to right, former Acting-President Daniels, President Willard and President Emeritus David Kinley. If President Draper had been living at the time, rest assured that he would have been at the ball game.

oratory and former Dean of the College of Engineering at the University of Kentucky. The Committee on Awards for 1936 included Professor G. L. Larson, University of Wisconsin; H. P. Gant, Philadelphia, Pa.; L. A. Harding, Buffalo, New York; S. R. Lewis, Chicago; and W. E. Stark, Cleveland, Ohio.

Dr. DAVID KINLEY has been President emeritus since the summer of 1930. He is very active and spends a good deal of time traveling as well as writing on economics. Incidentally, he is the chairman of the board of the First National Bank in Champaign.

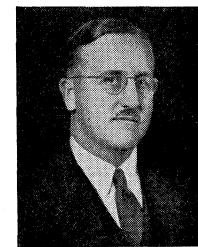
Dr. A. H. DANIELS, acting president during the year 1933-34 and professor of philosophy emeritus, is leading a very active life, notwithstanding his retirement, doing things which he has never before had time to do.

Dr. ANDREW S. DRAPER, the fourth executive head of the University of Illinois, came to the University in 1894 at a time when it was still struggling with insufficient appropriations from the State. Having come with a broad educational experience from the State of New York, he was able to apply his powers of organization to the solidifying of university policies and to a substantial expansion through an increased support on the part of the state legislature. Part of this was undoubtedly due to the reorganization in 1892 of the University of Chicago and its effect upon the state legislature but by his vision and the vigor of his executive powers he was able to take full advantage of this opportunity and bring the University a long distance on its way to a first rank position. Under his guidance the faculty in ten years expanded from eighty to 351 and the student body from 810 to 3,592. "The Life and Work of Dr. Andrew Sloan Draper," a biography by Harlan Hoyt Horner, Assistant Commissioner for Higher Education in the University of the State of New York, has lately appeared from our University Press. Dr. Kinley, in his introduction to the volume, states in part as follows: "As to what President Draper did for the Uni-

Under him the College of Law was founded, the work in political science enlarged, the Colleges of Medicine and Dentistry brought into the university fold, and the courses of training for business, now the College of Commerce, had a beginning.

"However, in the opinion of the writer, the greatest service which President Draper rendered the University was in the administrative organization which he left behind him President Draper believed properly in the division of function because division of function fixes responsibility The organization which he set up worked successfully for thirty years and became a model in whole or in part for other colleges. . . ."

Professor ROGER ADAMS, Head of the Department of Chemistry, while he isn't a president of the University, can appear on the president's page by his own right, as he has lately retired from the presidency of the American Chemical Society, a real job by the way and a high honor.



Roger Adams, Head of the Department of Chemistry

The real reason for putting him here is that he was awarded the 1936 Willard Gibbs medal given by the Chicago section of the American Chemical Society and is considered a great man in the chemical field. This medal was awarded for his "outstanding and fundamental contributions to synthetic organic chemistry, and for conspicuous achievements as a teacher of chemistry." Past winners include not only several other distinguished American chemists but also such outstanding foreigners as Mme. Marie Curie of France, Sir James Irvine of Scotland, Svante Arrhenius of Sweden, and Dr. Richard Willstaetter, of Germany.



THIS MEMORIAL TABLET, MOUNTED in the State Education Building at Albany, New York, is a gift of the school teachers of the State of New York.

Happenings and Future Plans of Our College of Engineering

IT TAKES a lot of machinery in more ways than one to take care of almost two thousand students of our College of Engineering and keep the faculty out of mischief. Judging by the succession of researches and events given us by Dean M. L. Enger, the college has been, is and will be busy, showing a very profitable year engineeringly. We wish we could show the interior of the new testing laboratory at the moment when the big testing machine sits down hard on a cake of cement to show how strong it (the concrete) is and many other things of interest. However, we will let Dean Enger tell about it.

Cooperative Investigations. The growth of cooperative investigations during recent years is an interesting development in the work of the Engineering Experiment Station. To date there have been 76 such contracts of which 22 are now in progress. The contributions of the cooperating agencies amount to about \$100,000 a year.

The first cooperative investigation financed by outside agencies was the investigation of **Stresses in Track**, begun in 1914, and carried on continuously since under the direction of Professor Arthur N. Talbot. The results of the investigation have been published. The money has been contributed by the Association of American Railroads, the American Railway Engineering Association, and the American Society of Civil Engineers.

The investigation of **"Warm Air Furnaces and Furnace Heating Systems"** was begun in 1918, in cooperation with the National Warm Air Heating and Air Conditioning Association of Columbus, Ohio, under the direction of Professor A. C. Willard. The results, published by the Engineering Experiment Station, have recently been republished by the sponsor of the investigation under the title **"Gravity Warm Air Heating—Digest of Research, Engineering Experiment Station, University of Illinois."**

The following titles of other cooperative researches in progress and their cooperating agencies give some idea of the scope of this work.

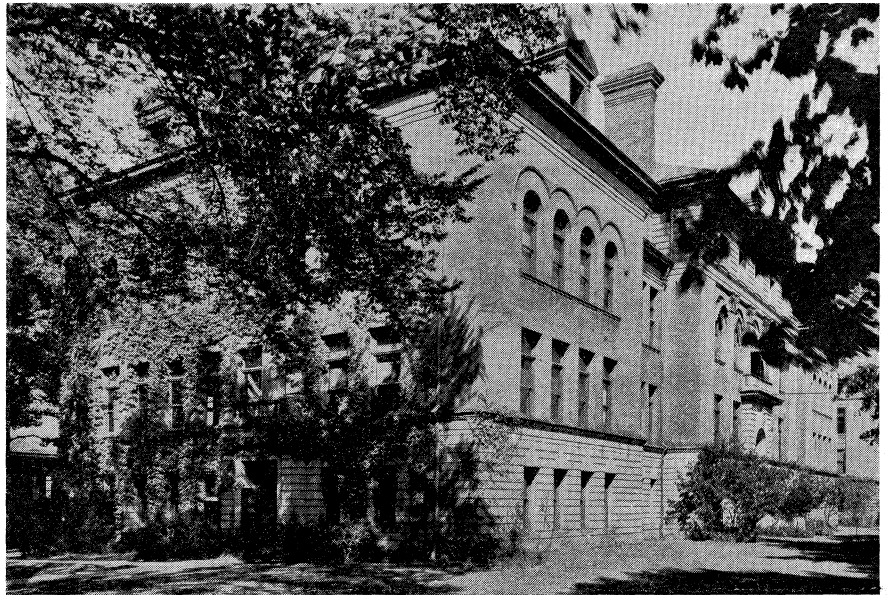
Cooperative Investigations in Progress

Problems in the mining of coal, in cooperation with the State Geological Survey Division. Solubility studies of boiler waters, in cooperation with the Utilities Research Commission, Inc. Stack gases, in cooperation with the Utilities Research Commission, Inc. Methods of eliminating stretching of lead sheaths of high voltage cables, in cooperation with the Utilities Research Commission, Inc. Heating and ventilating, in cooperation with the American Society of Heating and Ventilating Engineers. Rails investigation, in cooperation with the Association of American Railroads and the Rail Manufacturers' Technical Committee. Sound absorption by materials, in cooperation with the United States Gypsum Company. Scale studies, in cooperation with the National Aluminate Corporation. Summer cooling, in cooperation with the American Society of Heating and Ventilating Engineers, the National Warm Air Heating and Air Conditioning Association, and others. Rigid Frame Structures, in cooperation with the Portland Cement Association. Rigid Welded Joints, in cooperation with the Research Committee of the Chicago Section of American Society for Welding Engineers, and others. Strength of Chilled Car Wheels, in cooperation with the Association of Manufacturers of Chilled Car Wheels. Resistance of the Treads of Chilled Car Wheels to Heat Checking, in cooperation with the Association of Manufacturers of Chilled Car Wheels. Monolithic Concrete Walls, in cooperation with the Portland Cement Association.

Conferences Held or to be Held at the University. A number of conferences are being sponsored by the College of Engineering during the second semester which will attract many out-of-town visitors and give the student an opportunity to meet and hear prominent practicing engineers in almost every field of engineering. The *Twenty-third Highway Conference* was held Feb. 27 and 28 in cooperation with the State High-

lature. The building will be a two-story addition to the Mining Laboratory and ready for occupancy next September.

Professor Jakob Kunz of the Department of Physics, and Professor E. E. Bauer of the Department of Civil Engineering are on leave of absence during the second semester. Before leaving on a trip abroad Dr. Kunz announced an improved form of photo-electric cell which will be further developed on his



ENGINEERING HALL, WHICH HOUSES THE EXECUTIVE OFFICES OF THE College of Engineering as well as many of the departments of the college. The engineering group is at the north end of the campus and consists of about thirteen buildings.

way Department. The *Fourth Mineral Industries Conference* will be held April 24 and 25 in cooperation with the State Geological Survey Division. The *First Conference on Air Conditioning*,* a non-technical exposition sponsored by the Mechanical Engineering Department will be held May 4 and 5. The *Fourth Glass Conference* sponsored by the Department of Ceramic Engineering will be held late in May. The *Third Coal Short Course* sponsored by the Department of Mining and Metallurgical Engineering, will be held early in June.

The **Electrical Engineering Show** to be given April 16-18, is put on in alternate years by the students in Electrical Engineering. Excursions are being arranged by railroads and bus lines.

The **Golden Jubilee Meeting** of the Illinois Society of Engineers was held in Urbana January 30, 31 and February 1, 1936. The Society was organized by Professors Ira Osborn Baker and Arthur Newell Talbot in February, 1886. A commemorating Bronze Tablet was presented to the University, and will be placed in the Engineering Library.

Plans have been completed for a building to house the laboratories of Metallurgical Engineering under an appropriation of \$50,000 by the last Legis-

return in 6 months. He will study in Switzerland and Germany; Professor Bauer has registered in the Harvard Graduate School of Engineering.

Professor Kruger of the Physics Department and a group of graduate students and assistants are at this writing almost ready to start work on the disintegration of atoms. They have nearly completed the construction of a *cyclotron* of design somewhat like that which has been so successful in the hands of its inventor, Professor Lawrence of the University of California. The cyclotron, in its essentials, consists of a pair of electrodes like the two halves of a pill box placed between the poles of a powerful electromagnet. By adjusting the frequency of the radio tube oscillators, which supply power to these electrodes, so that the potential reverses every time an ion goes from one half of the pill box to the other, the ion is given an acceleration of 20,000 volts each time it completes a half circle of its path. In this way the ions are accelerated again and again until, in the case of heavy hydrogen ions (deuterons), they obtain a potential of a million volts or more. Protons get two million volts—all from a 20,000 volt source.

The magnet being used for the cyclotron is seven feet long, four feet high, has pole faces sixteen inches in diameter and weighs seven tons. The whole unit is to be operated by remote control using a portable control panel to remove the operator from intense sources.

*Air conditioning is a very live subject. The Engineering Experiment Station has a non-technical pamphlet, Reprint No. 5 on "Essentials of Air Conditioning" by Maurice Fahnestock which will be forwarded to any alumnus on request.