

PROCEEDINGS  
OF THE  
BOARD OF TRUSTEES  
OF THE  
UNIVERSITY OF ILLINOIS  
FOR THE  
Year Ending August 31, 1898.

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MEETING OF SEPTEMBER 21, 1897.

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The Board of Trustees of the University of Illinois met in the Trustees' room, Library hall, in Urbana, Illinois, at 3 o'clock p. m., Tuesday, September 21, 1897.

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

The minutes of the meeting of June 8th were approved as presented by the Secretary, on motion of Mrs. Flower.

COMMUNICATIONS FROM PRESIDENT DRAPER.

PHYSICAL TRAINING FOR MEN.

*To the Board of Trustees.*

I have had more anxiety about better provisions for physical training work among the men than touching any other one matter, during the summer vacation. It is not too much to say that under all conditions which have grown up there is practically no opportunity at all for general work of this character among the entire body of students. The military work has come to monopolize Military Hall; and not only so, the structure has never had any adaption whatever to gymnasium purposes. I was disappointed at the failure to construct the addition planned by the Professor of Architecture, but since I have come to know all of the facts I do not see how it was possible without either incurring obligations considerably in excess of all previous understandings about the matter, or contracting the structure so as to make it insufficient for our needs. Since my return I have many times carefully in-

vestigated the subject and have come to the conclusion that the wisest course to take will be to remove the wood shop from the upper floor of the old mechanical building and place it in conjunction with the repair shop on the south side of the lower floor of that building, extending it into the room at present occupied by the engines and boilers of the mechanical engineering department, which can be removed by the time the new central heating plant is completed. It would be necessary to contract the space used for the testing laboratory, but this again would be to some extent made good by removing the wide stairway which extends from the outer north side of the building to the second story. Then we would have the entire second floor for a gymnasium. It is spacious and not badly adapted to such use. Lockers and bathing accommodations could be installed in the tower rooms, of which there are four, and also in the space between them on the north side.

In this way we would secure the best provision for athletic work that I believe can be secured within the limits of our special appropriation. I am advised by our architectural department that the changes I have suggested can be carried out, and machinery re-installed as may be necessary, within the limits fixed by the appropriation. It is in my judgment of the highest importance that this matter have early and decisive action, as it is of more consequence that the entire number of students shall have accommodations for physical exercise than that a few shall be trained for team work and intercollegiate games.

A. S. DRAPER,  
*President.*

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

*Resolved*, That the recommendations of President Draper with reference to using the old Military Hall as a gymnasium be adopted, and that the Committee on Buildings and Grounds be, and hereby is, instructed to make the necessary improvements, using therefor the \$3,000.00 appropriated for this purpose by the General Assembly at its last session.

This appropriation was subsequently increased by an assignment of \$1,000.00 from the general fund.

#### ILLINOIS FIELD.

*To the Board of Trustees.*

Matters at Illinois Field are in an unsatisfactory situation. The fence is unsightly and so far decayed as to be practically beyond repair. It is insisted by the athletic authorities that the grounds are not large enough. They are especially anxious to secure a running track a third of a mile in length and wider than the present one. The needs of our own students in this connection are continuous and urgent in the fall and spring terms, and the unfortunate conditions have prevented the use of these grounds for the annual Interscholastic Athletic Meet, which is an occurrence of considerable moment to the University. It seems to me advisable, moreover, that the open ground which we own north of Illinois Field should be enclosed with it, and be better cared for than it has been.

Under all the circumstances, I recommend that the Committee on Buildings and Grounds be requested to make such changes and improvements at Illinois Field in the directions indicated as may seem desirable, and that the sum of \$2,500.00 be appropriated for the purpose.

A. S. DRAPER,  
*President.*

After some discussion, further consideration of improvements at Illinois Field was postponed to the March meeting of the Board.

## GREENHOUSE.

*To the Board of Trustees.*

Pursuant to your instructions, given at the June meeting, I have investigated the matter of a new greenhouse and herewith submit plans and estimates therefor. I recommend the plan prepared by Messrs. Lord & Burnham, of New York City, which they agree to execute for the sum of \$3,587.68, exclusive of mason work, cement walks, outside connections with the central heating station, and outside plumbing connections; provided we determine to heat the same from the central heating plant, as it seems to me advisable to do. I have made such general inquiry as was possible touching the cost of mason work and heating and plumbing connections outside the structure, and am confident that these can all be constructed so that the entire cost of the building would not exceed \$5,000.00.

The necessity for a new greenhouse is certainly urgent. The present one is, I am told, twenty years old, was never very substantial, and appears to be utterly incapable of use another winter.

A. S. DRAPER,  
*President.*

On motion of Mrs. Flower, the recommendations were referred to the Finance Committee with instructions to report the next day.

## AGRICULTURAL EXPERIMENT STATION.

President Draper submitted a report from Professor Davenport, Director of the Station, including a financial statement; and, in compliance with the recommendations of his report, approved by the Advisory Board, appropriations of Experiment Station funds for the quarter ending December 31, 1897, were made as below:

## FINANCIAL STATEMENT FOR THE YEAR ENDING JUNE 30, 1897.

<i>Receipts.</i>		
Appropriated by Congress .....		\$15,000 00
Balance, other funds .....	\$166 28	
From State Board of Agriculture for analyses of fertilizers .....	140 00	
From Station farm, etc .....	2,878 67	3,184 95
		<u>\$18,184 95</u>
<i>Expenditures.</i>		
Salaries .....	\$7,698 04	
Labor .....	2,634 05	
Publications .....	1,224 42	
Postage and stationery .....	71 59	
Freight and express .....	144 58	
Chemical supplies .....	93 16	
Seeds, plants, and sundry supplies .....	625 94	
Feeding stuffs .....	385 95	
Library .....	336 44	
Tools, implements, and machinery .....	347 98	
Furniture and fixtures .....	140 13	
Scientific apparatus .....	487 67	
Live stock .....	304 99	
Traveling expenses .....	166 69	
Contingent expenses .....	83 30	
Buildings and repairs .....	255 07	\$15,000 00
Other funds .....	\$3,107 75	
Balance other funds .....	77 20	\$3,184 95
		<u>\$18,184 95</u>

## APPROPRIATIONS FOR QUARTER ENDING DECEMBER 31, 1897.

<i>From general fund—</i>		
Salaries.....	\$1,950 00	
Labor .....	750 00	
Publications .....	300 00	
Postage and stationery .....	25 00	
Freight and express.....	40 00	
Heat, light, and water.....	40 00	
Chemical supplies .....	5 00	
Feeding stuffs.....	100 00	
Tools, implements, and machinery.....	125 00	
Scientific apparatus.....	150 00	
Traveling expenses.....	135 00	
Buildings and repairs .....	90 00	
Contingent.....	40 00	
		\$3,750 00
<i>From farm fund—</i>		
Labor .....	\$533 00	
Seeds, plants, and sundry supplies.....	210 00	
		\$743 00

President Draper also presented a communication from Professor Davenport with regard to the Winter School of Agriculture, and also recommending the erection of a building for the shelter of carriages, wagons, and machinery on the farm.

This communication was referred to the Farm Committee for report.

## PAVING ROMINE STREET AND UNIVERSITY AVENUE.

President Draper presented an agreement in duplicate between John W. Stipes and the Board of Trustees of the University of Illinois for paving the west half of Romine street from the north line of West Main street to University avenue, and the south half of University avenue from the west line of Romine street to the east line of Wright street, all in Urbana; and the President and Secretary of the Board were instructed to sign the contract on behalf of the University.

## TELEPHONES.

President Draper presented communications from the telephone companies with regard to telephone service.

On motion of Mr. Smith it was voted to accept, for two years, the proposition of the Champaign and Urbana Phoenix Telephone Company to furnish ten or more telephones for the term of one or more years at \$12.00 each per year.

A request that a scholarship be conferred upon Mr. Ralph O. Edwards, of Belleflower, McLean county, was denied by the following vote:

Yeas—Messrs. McKay and Smith; nays—Messrs. Armstrong, Raymond, McLean, and Bullard, and Mrs. Flower and Mrs. Carriel.

President Draper presented a recommendation from Professor Jones to the effect that the charge for Harmony be reduced from \$10.00 to \$6.00 a term, and it was so ordered.

At the request of the President of the Board, Mr. McLean took the chair for the rest of the session.

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

*Resolved*, That George F. Barrett, of Chicago, a son of a soldier in the late war, be granted an honorary scholarship from Cook county.

On recommendation of Professor Jones, presented by President Draper, it was voted on motion of Mrs. Flower that there should be paid Mr. A. M. Applegate in consideration of services to be rendered as a singer, each term, a sum equal to the amount of his music fees.

#### SCHOOL OF PHARMACY.

The Committee on the School of Pharmacy, complying with an order of the Board passed at its meeting of June 8th, presented the following:

URBANA, ILLINOIS, September 21, 1897.

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

GENTLEMEN:—The Committee on the School of Pharmacy met with the Faculty of the School at 465 State street, Chicago, on Thursday, September 2, 1897. The meeting was called to order at 10:30 a. m., the Chairman, Mr. McLean, presiding. There were present Messrs. McLean and Bullard, Professor Palmer, representing President Draper and Professor Shattuck, and Professors Goodman, Hallberg, Puckner, and Hereth, and Secretary Day, of the School of Pharmacy.

There were read the following recommendations from the Faculty of the School with regard to the course for the degree of Pharmaceutical Chemist:

“The candidate for this degree first to complete the course for the degree Graduate in Pharmacy, this latter course consisting of two annual terms of not less than twenty-eight weeks each and requiring an attendance of three days a week and about seven hours daily.

“In addition to this course the candidate to take a third term also of twenty-eight weeks or of the same length as each of the Ph. G. terms and extending simultaneously with these. The attendance required during this third term to be five days a week and seven or eight hours daily. The course for this third term to consist of lectures, recitations and laboratory practice in advanced chemistry and bacteriology.”

Mr. Bullard moved that these recommendations be adopted. Discussion brought out the following points: That the expense for providing suitable additional equipment for this course would be from eight hundred to one thousand dollars; that the annual expense for maintaining such a course would be, approximately, for supplies two hundred dollars, for instruction eight hundred dollars.

It was suggested that the fee for this course be seventy-five dollars.

In the case of students who matriculated last year with the intention of competing for the Ph. C. degree under the conditions then in force, it was suggested that such students be allowed to choose between taking a third term or receiving a certificate of having finished the course and, upon obtaining the required drug store experience, receiving the degree of Graduate in Pharmacy. It was also suggested that the Faculty of the School furnish a statement regarding the number of hours of instruction included in this three years course both in total and in each study. [See p. 189.]

## HOURS OF INSTRUCTION.

	Pharmacy.				Materia medica—botany.				Chemistry.				Bacteriology.			Total.			
	Lec.	Rec.	Lab.	Total.	Lec.	Rec.	Lab.	Total.	Lec.	Rec.	Lab.	Total.	Lec.	Lab.	Total.	Lec.	Rec.	Lab.	Total.
U. of I. School of Pharmacy, Ph. G. Course.....	104	52	208	364	104	52	156	312	104	52	208	364	.....	.....	.....	312	*156	572	1,040
Additional work, three years of Ph. C. Course....				.....				.....				†900	30	120	†150	.....			1,040
U. of M. School of Pharmacy	L. & R. 144		360	504	L. & R. 198		72	270	L. & R. 510		1,092	1,602	.....	.....	.....	L. & R. 852		1,524	2,370

\* Recitations are not at present obligatory. † Estimated. ‡ Present course at Medical School.

If two weeks were added to each of our Ph. G. terms, making them thirty weeks in length or twenty-eight weeks, excluding vacations, there would be 160 hours added to the above totals, making each Ph. G. term 560 hours; total 1,120 hours; third term of Ph. C. course, 1,120 hours; total, 2,240 hours.

The motion to adopt the recommendation of the faculty was then carried unanimously.

Respectfully submitted,

ALEX. McLEAN,  
J. E. ARMSTRONG,  
S. A. BULLARD,  
A. S. DRAPER,  
S. W. SHATTUCK,

*Committee on School of Pharmacy.*

THIRD YEAR'S WORK FOR THE DEGREE OF PHARMACEUTICAL CHEMIST.

CHEMISTRY.—The course to consist of laboratory work, lectures, assigned reading and recitations, and to embrace:

*Quantitative Analysis* (gravimetric), including water analysis.

*Plant Analysis*.—Isolation and determination of proximate principles—such as sugars, starch, alkaloids, etc.

*Drug Assaying*.

*Physiological Chemistry*.

*Food Analysis*, such as of milk, butter, etc.

BACTERIOLOGY.—Course to be mapped out by the instructor. (It is suggested that the work in this branch be done at the Medical School.)

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

*Resolved*, That in accordance with a recommendation made by the State Pharmaceutical Association, at its meeting recently held in Springfield, Hon. William J. Frisbie, of Bushnell, Ill., be appointed a member of the Advisory Board of the School of Pharmacy for term ending in June, 1903.

The Secretary was directed to notify Mr. Frisbie of this appointment and also the Faculty of the School of Pharmacy.

A request from Professor Myers that provision be made for heating the Observatory was not granted.

Upon recommendation of President Draper \$175.00 was appropriated for the department of applied chemistry.

Also upon recommendation of President Draper, \$500.00 was appropriated for the department of physiology.

President Draper presented a request from Professor Breckenridge for an appropriation of \$150.00 a term for the year to be used for operating expenses for the Mechanical Laboratory.

It was moved by Mr. McKay that this appropriation be granted, and during the consideration of this motion the Board adjourned to meet at 9:30 o'clock Wednesday morning.

WEDNESDAY MORNING SESSION.

When the Board met pursuant to adjournment the same members were present as at the preceding session on Tuesday.

The motion which was under consideration when the Board adjourned was lost.

It was moved by Mr. Armstrong that \$60.00 be appropriated for this term to pay for student labor in the mechanical engineering

shops. This motion prevailed by the following vote: Yeas—Messrs. Armstrong, Raymond, McLean, and McKay and Mrs. Flower; nays—Messrs. Morrison, Bullard, and Smith and Mrs. Carriel.

The request presented by Professor Breckenridge that commercial work be done in the shops by students employed for that purpose was not granted.

Mr. W. H. Zimmerman was appointed engineer in the shops in place of John Doughty, resigned.

The Business Manager was authorized to make, together with Professor Breckenridge, a sale of such boilers as were not needed in the new heating plant.

The following communication was received from Professor Ricker, and his acceptance of the appointment therein referred to was approved:

URBANA, ILLINOIS, September 20, 1897.

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

GENTLEMEN:—I beg leave to inform you that, with the consent and approval of the President of the University, I have accepted the Governor's appointment and commission as a member of the State Board of Examiners of Architects, as the law requires a member of the Faculty of this University to serve on this Board. My work will be so arranged that none of my classes will be omitted or postponed, and I sincerely believe that the advantages resulting to the University and to the architectural department will abundantly compensate the institution for the time that I shall necessarily be absent in attendance on the meetings of the Board. Had I thought otherwise, I should have declined the appointment.

Very respectfully submitted,

N. C. RICKER,

*Professor of Architecture.*

Upon the request of Miss Sharp, approved by President Draper, the following appointments were made: Mr. H. A. Grossberg, to assist in care of the law library, his compensation to be determined by the Business Manager; Miss Annie Fossler, assistant in class and reference work, for ten months at \$50.00 a month; Miss Georgia E. Hopper, assistant in the library, for ten months at \$30.00 a month; Miss Adelaide M. Chase, assistant in the library, at \$25.00 a month for ten months; Mr. Leo Smith, assistant in the library, at \$30.00 a month for ten months.

The following resolution, offered by Mrs. Flower, was adopted:

*Resolved*, That it is the sense of this Board that student labor should be employed so far as practicable, and that the President of the University be directed to prepare a scheme for the same to present to the Board at the December meeting.

Mr. Morrison moved that a committee of three be appointed to consult with the Fair Association of Champaign county and ascertain whether or not satisfactory arrangements could be made by which the Athletic Association of the University might use the grounds of the Fair Association, and to report at the next meeting of the Board. This motion was lost on the following vote: Yeas—Messrs. Morrison, McLean, Smith, and McKay; nays—Messrs. Armstrong, Raymond, and Bullard and Mrs. Flower and Mrs. Carriel.

The Finance Committee reported back the recommendation with regard to a greenhouse (see page 186) and advised its adoption.

Mr. Smith moved that the plans for a greenhouse made by Messrs. Lord and Burnham and their proposition for the erection of the same be accepted; that the sum of \$5,000.00 be appropriated for the construction of the building, heating apparatus, lighting, and walks, and that the Committee on Buildings and Grounds, President Draper being associated with the committee in this matter, be instructed to proceed at once with the work. This motion was adopted.

Mr. Raymond reported from the Farm Committee recommending the appropriation of \$100.00 for the Winter School in Agriculture, and \$800.00 for the erection of a suitable building for a wagon-house and the shelter of farm machinery, etc. The recommendation of the committee was adopted and money was appropriated in accordance therewith.

#### REPORT OF COMMITTEE ON BUILDINGS AND GROUNDS.

The following report from the Committee on Buildings and Grounds was received and ordered printed:

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

GENTLEMEN:—Your Committee on Buildings and Grounds begs leave to make the following report of its actions on the matters in its hands. The Committee has had charge of the improvements ordered by the Board, which have been more extensive than usual. The committee has had several meetings from time to time during the summer at which most of the members were present.

*Library Hall*—The library building was completed and accepted the first part of August, and settlement made with the contractors. Mr. Gleason, the sub-contractor for the brick and stone masonry, filed a claim for about \$5,000.00 for extra work and damages for delays caused by the general contractor. It seemed very probable that the settlement of this dispute would go into the courts and delay our settlement with the contractors unless we could make other arrangements. Your committee, therefore, ordered the payment of all the bills of sub-contractors in full, except that of Mr. Gleason, and the taking of a bond from the contractors to the amount of \$10,000.00 to make good any losses that might fall to the University in the settlement of the disputed claim. The final settlement on the library building can not be made until the dispute between the general contractor and Mr. Gleason has been adjudicated.

The building itself seems very well built and your Committee and the architects are well pleased with the work done by the contractors, The H. M. R. Construction Company.

*Decoration of Library Hall*—Early in the summer the Committee took up the subject of decorating the library building. The architects laid before the Committee several designs in competition from prominent decorative artists, which the Committee considered very carefully. As a result of the competition Professor N. M. Wells, of New York, was engaged to do the decorative work for the sum of \$3,500. The members of the Committee were very much pleased with Mr. Wells's designs and have no doubt that when the work is completed it will be admired by all who visit the library building. This work is going on now, the more elaborative decorative features to be finished later in the year.

*Apportionment of Rooms in Library Hall*—It was decided by the Committee that the new Library School should be given the room above the book stacks and that an iron stairway be put in that story to the book room below. The west basement wing was set apart for the Art Gallery, the east basement

wing was unassigned but will be used temporarily for lockers for men. The two toilet rooms of the basement, a part of the hall, and a part of the east basement wing will be provided with lockers in which students may place wraps during school hours. The provisions for the library and for the administration offices occupy the remainder of the building.

*Removal of Art Gallery and Library to Library Hall*—The Committee ordered that the art gallery and library be removed into the new building as soon as the work of building was completed, and the work of removal was put into the charge of Professors Burrill, Shattuck, and Bicknell. The work has been done during the summer, and now the building is in good condition and the art gallery and library are ready for the year's work.

*Re-arrangement of Rooms in University Hall*—The vacating of the library, administrative offices, and art gallery in University Hall left a large part of the building unassigned. The Committee ordered the rooms vacated by the library changed into rooms for the use of the Law School to be opened this year, and the rooms vacated by the art gallery divided up into rooms to be used for the musical department. The ladies' parlor was to be the room occupied by the President, and the Dean of the literary department was to have the room occupied by the Business Manager and Registrar as his recitation room, and the office occupied by the secretary to the President as his office. Other minor changes were ordered in the building, and the duty of looking after the making of all these changes was put in charge of Dr. Burrill, Professors Ricker and White to have charge of the construction part of work.

*Chemical Laboratory, Temporary Quarters*—The failure of the legislature to make an appropriation for an enlargement of the Chemical Laboratory necessitated doing a part of the laboratory work in the University Hall. As soon as the heating apparatus buildings are completed, the electrical department will be taken to those buildings and the space now occupied by the electrical department can easily be utilized for the chemical laboratory. The buildings, however, not being completed before school commenced this fall, it became necessary to make such temporary arrangements for the laboratory as were absolutely necessary, which has been done in using some of the basement rooms.

*Natural History Hall*—The natural history building, which was damaged by lightning and fire during the summer, has been repaired and is now ready for use again. It has been the aim of the committee to put the building into the same condition as it was before, as nearly as possible, and this has been done at an expense of about \$3,600.

*Central Heating, Lighting, and Power Plant*—Immediately after the adjournment of the Board in June the committee took up the consideration of the central heating, lighting, and power plant. A general plan for this plant had been worked out by Professor Breckenridge prior to the meeting of the committee. The location of the plant was fixed on the north side of Silver Creek between Burrill avenue and the east line of the University property.

A large boiler house was to be placed near the east line with sufficient room for our present need and for an enlargement of half the present capacity, and for the storage of five hundred tons of coal. Just west of the boiler house and between it and Burrill avenue was to be a large and handsome building for the location of engines and dynamos, and also having capacity for experimental laboratories for the mechanical and electrical engineering departments. Some rooms for offices, recitations or lectures, and for computing were provided. From these buildings a tunnel, large enough for a person to walk in, was to be constructed south and north to the different University buildings. In this tunnel were to be placed steam pipes for the heating of the buildings, water pipes for the supply of water if necessary, and electric wires for lighting and power purposes for the different buildings. The committee placed the architectural work in charge of C. D. McLane and S. J. Temple, the engineering features under the charge of Professor Breckenridge, and the electrical features under the charge of Professor Carman. Under the order of the Board the committee also employed Mr. Charles E. Armstrong, of Chicago, as an engineering and electrical expert to examine and approve the general and detail features of the heating plant. The amount of compensation was not agreed upon with these individuals but your committee expects to keep this

within the customary fee of five per cent. of cost. As soon as it was possible to have plans and specifications made for the different parts of the work bids for the construction of the same were called for. Different parts of the work were contracted for and the work is now in process of construction with the expectation of having it entirely completed by the first of December, 1897. Your committee is very much pleased with the general plan of the plant and believes that when it is completed it will be the best and finest plant of the kind in the United States. It has been the constant effort of the committee to keep within the amount of appropriation, \$80,000.00, as made by the legislature, and we believe that we shall be able to do so very nearly, if not entirely. The committee has felt some embarrassment, however, in making different contracts for the different parts of the work, in that only one-half of the appropriation is available at the present time and that the second half will not be available until July 1, 1898. On the assurance of the President of the Board and of the Finance Committee that arrangements can be made for the latter half of the appropriation, your committee has made contracts exceeding the amount of money now on hand and will continue to do so unless otherwise ordered. We trust that there will be no further embarrassment on that account.

*Tunnels*—Bids for the construction of the south side tunnels were received on June 29th and opened

The following were the bids:

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S. H. Garrison, Urbana.....	\$8,875 00
John B. Bennett, Urbana.....	7,937 30
Horace Irwin, Springfield.....	8,839 00
Flick & Johnson Construction Co., Davenport, Iowa.....	9,600 00
Caleb & Couture, Bridgeport, Ohio.....	13,990 00

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The contract was awarded to John B. Bennett, of Urbana, after reducing his bid a small amount by substituting for the brand of cement specified a different brand, which, in the opinion of Professor Talbot, after experiment, was equally as good. Mr. Bennett undertook the work at once and has finished it very satisfactorily. The work was generally completed in the time stipulated in the contract. A part was left undone in order that the piping might more easily be placed in the tunnels. This has been done and the work is now fully completed.

*Piping in the South Tunnels*—As as possible after the tunnel contract was under way bids were called for for the steam piping to be placed in the tunnels. Five bids were received for that work as follows:

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Robinson & Burr, Champaign, Ill.....	\$1,450 00
Hubbard & Sons, Urbana, Ill.....	1,914 00
Carson & Co., Chicago, Ill.....	1,590 00
L. H. Prentice & Co., Chicago, Ill.....	2,390 00
Samuel I. Pope, Chicago, Ill.....	2,179 00

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The work was given to Robinson & Burr at their proposal, \$1,450.00, and the work was pushed forward to completion as rapidly as possible. There was a delay for a short time on account of the difficulty under which the iron piping was obtained, but the work is now done and ready for service.

*Pipe Covering in Tunnels*—Two bids were received for pipe coverings in tunnels, one from H. W. Johns Manufacturing Co., of Chicago, for asbestos covering, varying from \$1,200.00 to \$1,600.00, according to quality, and one from Walch and Wyeth Co., Chicago, for magnesia coverings, varying from \$1,250.00 to \$1,730.00, according to quality. After looking into the merits of different materials it was thought best to award the contract to Walch & Wyeth, putting a first grade covering on the supply steam pipes and a second grade covering on the return pipes. This we succeeded in doing for \$1,500.00 and entered into contract for that amount. The dampness that is unavoidable in tunnels of this character makes the magnesia covering very superior on that account to asbestos.

*Heating Plant Buildings*—The specifications and drawings were completed for the heating plant buildings consisting of an engine and dynamo house, a boiler house, and a chimney stack 150 feet high, and bids called for to be opened July 9th. The bids for the construction of these buildings were as follows:

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J. C. Robinson, Chicago, Ill.	\$48,366 00
Valentine Jobst, Peoria, Ill.	39,500 00
W. M. Crilly, Chicago, Ill.	36,827 00
John Cox & H. K. McDonald, Chicago, Ill.	49,909 00
J. W. Evans Sons Co., Bloomington, Ill.	39,613 00
M. Yeager & Son, Danville, Ill.	40,839 00
Warren R. Roberts, Chicago, Ill.	42,500 00
Richard Mohn, Chicago, Ill.	42,590 00
Edward D. Gleason, Chicago, Ill.	39,500 00
Angus J. C. Ledgerwood, Chicago, Ill.	56,400 00
W. Morava, Chicago, Ill.	40,927 00

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The committee, not having positive information of getting the latter half of our appropriation by the time of the completion of the buildings, offered the work to Mr. Grilly, who was the lowest bidder, on the condition that he agree to take \$25,000 in part payment as the work proceeded, the balance not to be paid until the first of July, 1898. This he refused to do and the committee thought best to reject all the proposals and call for proposals for the buildings separate instead of in one contract. This the committee did, opening the bids on July 23rd, with the following result:

*The engine and dynamo building—*

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W. F. Hoyle, Lincoln, Ill.	\$25,250 00
Edward Gleason, Chicago, Ill.	25,385 00
Mr. Morava, Chicago, Ill.	25,740 00
Richard Mohn, Chicago, Ill.	24,850 00

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*Boiler house and chimney—*

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W. F. Hoyle, Lincoln, Ill.	\$14,000 00
Edward Gleason, Chicago, Ill.	15,700 00
J. C. Sedgewick, Champaign, Ill.	16,796 74
W. Morava, Chicago, Ill.	13,945 00
Richard Mohn, Chicago, Ill.	14,600 00

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It was left optional with the contractor as to whether he bid on the buildings separate or all in one bid.

The following were the bids received for all the buildings together and not separate:—

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Congress Construction Co., Chicago, Ill.	\$38,500 00
J. W. Evans Sons Co., Bloomington, Ill.	39,400 00
V. Jobst, Peoria, Ill.	39,199 00
M. Yeager & Son, Danville, Ill.	37,935 00
W. R. Roberts, Chicago, Ill.	38,400 00
Edward Gleason, Chicago, Ill.	39,500 00

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M. Yeager & Son, of Danville, being the lowest bidders, either combined or separate, the contract was awarded to them. They immediately commenced work and now have a large part of their work done. They are under contract to have it done by the first of December, 1897, and we have little doubt but that the work will be completed on time.

*Boilers*—It became necessary to increase our boiler capacity 250 horse power. It was thought best to use a water tube boiler and to employ a patent Murphy furnace in connection with it, one boiler of that capacity being better and cheaper than several of smaller sizes. On a call for proposals for this work, one boiler equipped with Murphy furnace, we received the following bids:

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Standard Boiler Co., Chicago, Ill.....	\$3,700 00
Abernathy & Root, Chicago, Ill.....	3,900 00
Heine Safety Boiler Co., St. Louis, Mo., for down draft furnace but without Murphy furnace.....	3,500 00
National Water Tube Boiler Co., New Brunswick, N. Y.....	3,418 00
Babcock & Wilcox Co., N. Y.....	4,297 00

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The contract was given to the National Water Tube Boiler Co., the boiler to be put in as soon as the new boiler house is ready to receive it.

*Coal and Ashes Handling Machinery and Storage for Coal*—It was the purpose to make preparations for the storage of 500 tons of coal. Plans were prepared and bids were asked for the putting in of bins for this storage and for machinery for handling coal and ashes.

Bids were received as follows:

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Link Belt Machinery Co., Chicago, Ill.....	\$5,350 00
Jeffrey Mfg. Co., Columbus, Ohio.....	5,350 00

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The contract was awarded to the Link Belt Machinery Co., at its bid, after duly considering the quality of the machinery proposed to be put in. This will be put in at a time suitable, so that it will be ready for use by the first of December.

*Heating the Engine and Dynamo House*—Bids were received for putting in heating apparatus for this building, as follows:

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Robinson & Burr, Champaign, Ill.....	\$668 00
Hubbard & Sons, Urbana, Ill.....	640 00

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The contract was awarded to Hubbard & Sons.

*Laying Water Main*—The committee ordered the laying of a 6 inch water main from the connection on Springfield avenue south on Burrill avenue to Green street, and a fire hydrant placed on this line south of the creek. From this 6-inch line a 4-inch pipe is to be laid east into the boiler house to furnish water to the heating apparatus. This work is to be done under the direction of Professor Talbot and as cheaply as the work can be secured.

*Cement Walks*—The committee laid out plans for new and additional concrete walks necessary for our grounds and contracted with Mr. P. E. Taintor, of Springfield, who did work for us last year. Contracts were made at 15 cents per square foot. These walks are down and are very satisfactory.

*Gymnasium*—Soon after the adjournment of the June meeting of the Board the committee took up the question of making suitable accommodations in bath rooms and lockers for the athletic and gymnasium department for which an appropriation of \$3,000 was obtained from the legislature. After having several plans and schemes for enlarging and adding to the present military building, providing for bath rooms, lockers, waiting rooms, etc., prepared by Professor Ricker and estimates made thereon, your committee could not get what would be at all adequate to the necessities of the case for the amount of money at command. The matter was brought to the attention of the Executive Committee and that committee asked to enlarge the appropriation. This, however, was deemed unwise by the Executive Committee, and the additional money, some \$2,200.00, was not provided for. It was, therefore, thought best by the committee to lay the improvement aside till the matter could be discussed by the board.

*Paving University Avenue and around the Campus*—Your Committee asked Professor Talbot to look after the interests of the University in paving University Avenue and the street east of our campus in conjunction with the city of Urbana, and in accordance with an ordinance passed by the Urbana city council. It was thought best to have our contract made directly with the

contractor, to have stone curbing put in instead of wood as contemplated by the city ordinance, and to have the work put in satisfactorily in every way. This arrangement has been made, and contracts will be submitted to the Board at this meeting for this work.

*Bridge across Silver Creek*—Your Committee asked Professor Baker to submit a plan or design for a bridge across Silver Creek at Burrill Avenue. The bridge was to be of the width necessary for a pavement on Burrill Avenue, should the paving of Burrill Avenue be consummated. The amount of money to be used in the construction of this bridge was \$500.00, appropriated by the Legislature. The preliminary estimates went to show that such a bridge as we thought desirable for the place, together with abutments for the same, could not be built for the money appropriated. Therefore your Committee asked Professor Baker to get further bids on the work and see if it were possible to reduce the cost to the amount of money we have for this improvement. This matter has not seemed urgent and your Committee may not complete the bridge before next year.

*Protection of Water Fixtures*—It was reported to your Committee by Professor Talbot that it would be desirable to protect the water fixtures in the engineering building from damage by high pressure, which is considerable during the time of a fire, by putting in valves whereby the plumbing fixtures can be cut off from the water supply pipes and yet admit the water to the standpipes in the building. Your Committee, therefore, ordered that change to be made at an estimated cost of \$30.00 to \$35.00. This we feel was necessary to protect the fixtures and give the best water service to the building.

*Ventilators for the Basement of Military Hall*—It was reported to your Committee by Professors Ricker and White that the floor of Military Hall is rapidly decaying and in some places already injured beyond repair. The cause of this rapid decay is the insufficient ventilation of the space beneath the floor. We, therefore, asked Professor Ricker to obtain proposals for putting in ventilators large enough and sufficient in number for that purpose. It was ascertained that eight ventilators could be put in, two on each of the four sides, for \$64.00 and your Committee ordered the work done. This we believe will have the effect of stopping any further rapid decay in the floor of that building. It should have been done years ago. The oversight was made in the construction of the building, Professor Ricker says, by setting the floor down lower than originally contemplated and practically closing the openings that were originally intended for ventilating purposes. We are thus now tardily doing what the first plans for the building called for.

Respectfully submitted,

S. A. BULLARD,  
J. E. ARMSTRONG,  
L. L. FLOWER,  
I. S. RAYMOND,

*Committee on Buildings and Grounds.*

On motion of Mrs. Carriel it was voted that it is the sense of this Board that a building costing \$10,000.00, or more, to be used as a home for young women of the University, would be of great benefit to the University, and that the Board would approve the erection of such a building by private enterprise.

Mrs. Flower moved that the new greenhouse be placed on the west side of Burrill avenue, fronting the heating plant.

The motion prevailed by the following vote: Yeas—Messrs. Morrison, Armstrong, Raymond, McLean, and Smith and Mrs. Flower and Mrs. Carriel; nays—Messrs. Bullard and McKay.

The Business Manager presented his report, which was referred to the Finance Committee.

## BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, September 21, 1896.

*F. M. McKay, Esq., President of the Board of Trustees, University of Illinois.*

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

*Paper A* is a statement of the current appropriations for the year ending June 30, 1897.*Paper B* is a statement of the State appropriations for the same time.*Paper D* is a statement of the Laboratory of Natural History appropriations for the same time.*Paper E* is a statement of the Agricultural Experiment Station appropriations for the same time.*Paper F* is a statement of the School of Pharmacy appropriations for the same time.*Paper G* is a statement of the School of Medicine appropriations for the same time.*Paper H* is an estimate of receipts and expenses for the twelve months ending June 30, 1898.*Paper I* is a list of appropriations for the three months ending December 31, 1897.*Paper L* is a statement of moneys received by me for the three months ending June 30, 1897.*Paper M* is a list of the general University vouchers presented for audit, being 1,882 to 2,200, inclusive.*Paper N* is a list of the Laboratory of Natural History vouchers presented for audit, being 247 to 286, inclusive.*Paper O* is a list of the Agricultural Experiment Station vouchers presented for audit, being 280 to 400, inclusive.*Paper P* is a list of the School of Pharmacy vouchers presented for audit, being 160 to 176, inclusive.*Paper Q* is a list of the School of Medicine vouchers presented for audit, being 1 to 75, inclusive.

## PAPER A—CURRENT APPROPRIATIONS.

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
Board expenses .....	\$1,746 88	\$1,154 62	\$592 26
Salaries for instruction and for President { Current..... U. S. Fund..... State..... }	101,545 56	{ 10,183 38 22,000 00 69,361 58 }	.....
Salaries for services { Current..... State..... }	13,511 70	{ 9,315 88 4,195 82 }	.....
Buildings and grounds.....	2,084 40	1,802 82	281 58
Fuel and lights .....	7,955 01	5,755 34	2,199 67
Stationery and printing .....	2,143 42	1,534 31	609 11
Preparatory School.....	4,950 00	4,909 79	40 21
Repair shop.....	1,539 23	1,539 23	.....
Mechanical Department .....	2,131 42	1,480 89	650 53
Departments.....	1,233 04	322 29	920 75
Laboratories .....	3,745 35	2,807 72	937 63
Library and apparatus.....	197 64	94 46	103 18
Incidental expenses .....	1,971 60	1,548 83	422 77

*Paper A—Current Appropriations—Concluded.*

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
<i>Sundries.</i>			
Closed out.....	1,582 15	1,582 15	.....
Furniture and fixtures.....	496 48	389 50	106 98
Heating apparatus.....	882 65	192 10	690 55
Water supply.....	500 00	375 00	125 00
Minnesota lands.....	100 00	77 28	22 72
Greenhouse.....	141 17	140 92	25
Commencement.....	600 00	212 50	387 50
Stone posts.....	160 00	.....	160 00
Tenant farming, etc., in Illinois.....	75 00	70 40	4 60
South farm.....	125 00	22 85	102 15
Accredited high schools.....	30 00	30 00	.....
Court expenses.....	22 40	22 40	.....
State Fair exhibit.....	500 00	.....	500 00
Catalogue.....	1,000 00	8 41	991 59
Publication of essay.....	75 00	.....	75 00
	\$151,055 10	\$141,131 07	\$9,924 03

## PAPER B—STATE APPROPRIATIONS.

<i>June 30, 1897.</i>	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc.—</i>				
Closed out.....	\$18,851 81	\$18,851 81	.....	.....
Salaries for instruction.....	132,463 13	132,463 13	.....	.....
Salaries for services.....	4,195 82	4,195 82	.....	.....
Heating apparatus.....	1,200 00	1,076 42	\$123 58	\$123 58
Buildings and grounds.....	3,800 00	3,255 32	544 68	544 68
Toilet rooms.....	375 00	294 22	80 78	80 78
Art and design.....	250 00	184 45	65 55	65 55
Physical training.....	1,220 00	959 06	260 94	260 94
School of Music.....	2,250 00	2,217 10	32 90	32 90
Lectures.....	519 17	.....	519 17	519 17
Agriculture.....	3,750 00	3,703 98	46 02	46 02
Preparatory School.....	190 00	129 75	60 25	60 25
Advertising.....	3,900 00	3,251 91	648 09	648 09
College of Literature and Arts, books.....	200 00	166 31	33 69	33 69
<i>Illini</i> .....	500 00	500 00	.....	.....
Accredited schools.....	500 00	319 51	180 49	180 49
<i>Technograph</i> .....	100 00	100 00	.....	.....
Signal bells.....	100 00	82 92	17 08	17 08
Botany (herbarium, etc.).....	150 00	11 35	138 65	138 65
Mechanical engineering laboratory.....	695 00	416 89	278 11	278 11
Chemical laboratory (repairs.).....	9,180 00	8,902 12	277 88	277 88
Furniture and fixtures.....	400 00	50 94	349 06	349 06
Furnishing Astronomical Observatory.....	555 00	287 83	267 17	267 17
Zoölogical department.....	95 00	18 40	76 60	76 60
Bronze tablet.....	175 00	.....	175 00	175 00
Physics.....	600 00	549 43	50 57	50 57
Law school.....	3,500 00	.....	3,500 00	3,500 00
	\$189,714 93	\$181,988 67	\$7,726 26	\$7,726 26
<i>Apparatus and materials—</i>				
Closed out.....	\$1,700 00	\$1,700 00	.....	.....
Applied chemistry.....	100 00	12 70	\$87 30	\$87 30
Chemistry.....	700 00	588 66	111 34	111 34
Psychology.....	300 00	258 66	41 34	41 34
Zoölogy.....	800 00	698 75	101 25	101 25
Physiology and hygiene.....	800 00	605 86	194 14	194 14
Botany and horticulture.....	680 00	661 02	18 98	18 98
Geology.....	400 00	328 51	71 49	71 49
Astronomy.....	520 00	390 65	129 35	129 35
	\$6,000 00	\$5,241 81	\$755 19	\$755 19

*Paper B—State Appropriations—Concluded.*

<i>June 30, 1897.</i>	Received.	Expended.	Balance	Assigned.
<i>Operating Biological Experiment Station....</i>	\$3,000 00	\$2,731 09	\$268 91	\$268 91
<i>Biological Experiment Station, equipment ...</i>	\$2,500 00	\$2,500 00	.....	.....
<i>Paving streets, etc.....</i>	\$9,300 00	\$9,300 00	.....	.....
<i>Laboratory of Vegetable Physiology.....</i>	\$2,000 40	\$1,949 14	\$50 86	\$50 86
<i>Astronomical Observatory.....</i>	\$15,000 00	\$12,764 88	\$2,235 12	\$2,235 12
<i>Library Hall.....</i>	\$150,000 00	\$126,495 87	\$23,504 13	\$23,504 13
<i>Fire protection.....</i>	\$2,000 00	\$1,679 95	\$320 05	\$320 05
<i>Library.....</i>	\$6,000 00	\$5,959 05	\$40 95	\$40 95
<i>Shop practice.....</i>	\$3,000 00	\$2,854 41	\$145 59	\$145 59
<i>Chemical Laboratory.....</i>	\$5,000 00	\$4,899 12	\$100 88	\$100 88
<i>Taxes on Minnesota lands.....</i>	\$3,200 00	\$3,200 00	.....	.....
<i>Vaccine Laboratory.....</i>	\$3,000 00	\$1,718 14	\$1,281 86	\$1,281 86
<i>Cabinets—</i>				
<i>Geology.....</i>	\$666 67	\$353 90	\$312 77	\$312 77
<i>Botany.....</i>	666 66	31 00	635 66	635 66
<i>Zoology.....</i>	666 67	.....	666 67	666 67
	\$2,000 00	\$384 90	\$1,615 10	\$1,615 10
<i>College of Engineering—</i>				
<i>Machine shop.....</i>	\$17,008 04	\$17,008 04	.....	.....
<i>Mechanical engineering.....</i>	3,104 85	3,104 85	.....	.....
<i>Electrical engineering and physics.....</i>	3,829 85	3,457 02	\$372 83	\$372 83
<i>Civil engineering.....</i>	1,852 42	1,786 30	66 12	66 12
<i>Laboratory of Applied Mechanics and</i>				
<i>Municipal and Sanitary Engineering..</i>	1,852 42	1,429 47	422 95	422 95
<i>Architecture.....</i>	1,752 42	1,538 83	213 59	213 59
<i>College of Engineering.....</i>	600 00	370 12	229 88	229 88
	\$30,009 00	\$28,694 63	\$1,305 37	\$1,305 37
<i>Furnishing and Fitting Engineering Hall—</i>				
<i>Electric wiring.....</i>	\$1,191 77	\$1,191 77	.....	.....
<i>Civil engineering.....</i>	478 43	448 07	\$30 36	\$30 36
<i>Architecture.....</i>	770 38	631 03	139 35	139 35
<i>Municipal and Sanitary Engineering.....</i>	401 30	375 92	25 38	25 38
<i>Mechanical department.....</i>	563 78	421 13	142 65	142 65
<i>Electrical engineering and physics.....</i>	1,193 39	1,007 06	186 33	186 33
<i>College library, parlor, etc.....</i>	400 96	274 76	126 19	126 19
	\$5,000 00	\$4,349 74	\$650 26	\$650 26

## PAPER I—LABORATORY OF NATURAL HISTORY.

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
<i>General balance July 1, 1896.....</i>	\$246 73	.....	\$246 73
<i>Salaries.....</i>	3,650 00	\$3,573 46	76 54
<i>Field office, etc.....</i>	1,500 00	1,500 00	.....
<i>Library.....</i>	1,000 00	816 58	183 42
<i>Bulletins.....</i>	500 00	495 77	4 23
<i>Report of Entomologist.....</i>	250 00	67 00	183 00
<i>Contagious diseases of insects.....</i>	1,500 00	850 58	649 42
<i>Biological Experiment Station.....</i>	1,500 00	1,497 28	2 72
	\$10,146 73	\$8,800 67	\$1,346 06

## PAPER E—AGRICULTURAL EXPERIMENT STATION.

<i>June 30, 1897.</i>	Appropriated.	Expended.
<i>General Fund—</i>		
Salaries .....	\$7,698 04	\$7,698 04
Labor .....	2,634 05	2,634 05
Publications .....	1,224 42	1,224 42
Postage and stationery .....	71 59	71 59
Freight and express .....	144 58	144 58
Chemical supplies .....	93 16	93 16
Seeds, plants, sundries .....	625 94	625 94
Feeding stuffs .....	385 95	385 95
Library .....	336 44	336 44
Tools, implements, and machinery .....	347 98	347 98
Furniture and fixtures .....	140 13	140 13
Scientific apparatus .....	487 67	487 67
Live stock .....	304 99	304 99
Traveling expenses .....	166 69	166 69
Contingent expenses .....	83 30	83 30
Buildings and repairs .....	255 07	255 97
	\$15,000 00	\$15,000 00
 <b>Farm fund .....</b>	 <b>\$3,107 75</b>	 <b>\$3,107 75</b>

## PAPER F—SCHOOL OF PHARMACY.

<i>June 30, 1897.</i>	Appropriated.	Expended.	Balance.
Salaries for instruction .....	\$4,500 00	\$4,499 81	\$0 19
Salaries for services .....	1,250 00	1,250 00	.....
Buildings and grounds .....	2,940 00	2,862 96	77 04
Fuel and lights .....	578 54	372 66	205 88
Stationery and printing .....	200 09	198 46	1 54
Furniture and fixtures .....	100 00	40 76	59 24
Laboratories .....	1,260 00	1,230 29	29 71
Incidentals .....	420 23	336 17	84 06
Sundries .....	1,753 52	1,695 54	57 98
Advertising .....	1,096 46	1,096 46	.....
Museum .....	25 09	2 25	22 75
	\$14,123 75	\$13,585 36	\$538 39

## PAPER G—SCHOOL OF MEDICINE.

<i>June 30, 1897.</i>	Appropriated.	Expended.
Salaries for instruction .....	\$525 02	\$525 02
Salaries for services .....	819 21	819 21
Buildings and grounds .....	181 50	181 50
Fuel and lights .....	138 62	138 62
Stationery and printing .....	81 13	81 13
Laboratories .....	6 00	6 00
Apparatus and materials .....	236 64	236 64
Incidental .....	44 60	44 60
Advertising .....	1,055 71	1,055 71
	\$3,088 43	\$3,088 43

## PAPER L—RECEIPTS FOR THE THREE MONTHS ENDING JUNE 30, 1897.

Term fees, etc., (University students).....	\$4,542 50	
Diploma fees.....	520 00	
Music.....	195 00	
Term fees, etc., Preparatory School.....	1,343 75	
Rent of south farm.....	\$1,235 93	\$6,601 25.
Minnesota lands, rent.....	10 00	
Buildings and grounds.....	15 00	
Greenhouse, sales.....	\$178 07	1,260 93.
Fuel and lights.....	28 44	
Agricultural Experiment Station.....	551 02	
Repair Shop.....	15 00	
Mechanical department and laboratory.....	48 63	
Military.....	5 35	
Laboratory of applied mechanics.....	\$15 00	826 51
Civil engineering.....	113 15	
General engineering drawing.....	129 62	
Chemical laboratory.....	820 21	
Zoological laboratory.....	51 89	
Mineralogical laboratory.....	4 03	
Geological laboratory.....	27 93	
Physical laboratory.....	248 50	
Electrical laboratory.....	97 00	
Botanical laboratory.....	11 00	
Psychological laboratory.....	18 00	
Physiological laboratory.....	28 60	
Preparatory.....	53 81	
Interest on land contracts.....	\$292 22	1,619 64
Interest from Globe Savings Bank.....	12 11	
School of Medicine, fees.....		304 33.
		3,152 00.
		\$13,764 66

Your attention is called to the bill of Wilson, Moore & McIlvaine, presented herewith as *Paper R*, and to their claim of \$1,597.50 for services and expenses. Also to the payment of \$500.00 as a retainer fee to the attorney at Red Oak, Iowa.

The present contract for water service will expire January 1, 1898, and that for gas expires December 17, 1897. The Board is requested to take timely action in these matters.

Respectfully submitted,

S. W. SHATTUCK,  
*Business Manager.*

## TREASURER'S REPORT.

The Treasurer's report, presented by Professor Shattuck, was also referred to the Finance Committee.

E. G. KEITH, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,

AUGUST 31, 1897.

1897.		<i>Dr.</i>		
April	28	U. S. Experiment Station warrant, due April 1. ....	\$3,750 00	
May	10	Remittance from S. W. Shattuck, on account of School of medicine.....	2,000 00	
"	18	Payment on land contract.....	250 00	
June	8	Appropriation for Chemical Laboratory repairs.....	9,714 93	
"	22	Payment on land contract.....	200 00	
"	26	From S. W. Shattuck, paid warrants on account of Experiment Station.....	367 71	
"	26	From S. W. Shattuck, paid warrants on account of general fund.....	1,829 75	
"	26	Received from land contract.....	1,350 00	
July	6	U. S. appropriation for Experiment Station, due July 1st	3,750 00	
"	19	Received from S. W. Shattuck, for School of Pharmacy	170 47	
"	19	Received from S. W. Shattuck, for School of Medicine.	1,000 00	
"	19	Received from State Treasurer, general appropriation.	76,650 00	
"	19	Received from S. W. Shattuck, for Experiment Station.	183 31	
"	19	Received from State Treasurer, for Laboratory of Natural History.....	5,150 00	
"	26	Received from State Treasurer, for survey of water in Illinois.....	750 00	
"	26	Received from State Treasurer in error.....	63 45	
August	9	Received from S. W. Shattuck, for School of Medicine.	919 00	
"	21	Received from State Treasurer, for completing library	2,500 00	
"	21	Received from State Treasurer, for central heating plant.....	25,000 00	
"	25	Received from S. W. Shattuck, paid warrants.....	3,576 61	
"	30	Received from State Treasurer, U. S. appropriation due August 1.....	23,000 00	\$162,175 23
1897.		<i>Cr.</i>		
August	19	By amount paid out of general fund, as per list of warrants herewith.....	\$75,859 25	
"	19	By amount paid out of endowment fund sent to State Treasurer as per agreement.....	1,800 00	
"	19	By amount paid out of Experiment Station fund, as per list of warrants herewith.....	6,311 41	
"	19	By amount paid out of School of Pharmacy fund, as per list of warrants herewith.....	2,214 26	
"	19	By amount paid out of Laboratory of Natural History fund, as per list of warrants herewith.....	2,379 10	
"	19	By amount paid out of School of Medicine fund, as per list of warrants herewith.....	3,577 09	
"	31	By amount paid out of general fund, as per list of warrants herewith.....	25,106 24	
"	31	By amount paid out of U. S. Experiment Station fund, as per list of warrants herewith.....	9 40	
"	31	By amount paid out of Laboratory of Natural History fund, as per list of warrants herewith.....	284 63	
"	31	By amount paid out of School of Pharmacy fund, as per list of warrants herewith.....	69 25	
"	31	By amount paid out of School of Medicine fund, as per list of warrants herewith.....	65 75	\$117,676 37
		<i>Balances—</i>		
		General fund.....	\$41,119 26	
		Experiment Station fund.....	1,730 21	
		Laboratory of Natural History fund.....	2,486 27	
		School of Medicine fund.....	276 16	
			\$46,611 90	
		School of Pharmacy fund.....	2,113 04	\$44,498 86
				\$162,175 23

## APPROPRIATIONS.

On motion of Mr. Bullard, \$100.00 was re-appropriated for the protection of Engineering Hall from the drip from window sills.

Appropriations were made for the three months ending December 31, 1897, as requested by the Business Manager.

Board expenses.....	\$500 00	
Salaries for instruction and President.....	35,000 00	
Salaries for services.....	5,000 00	
Buildings and grounds.....	2,000 00	
Fuel, lights, and electric power.....	3,000 00	
Stationery, printing, etc.....	1,000 00	
Advertising and postage.....	1,000 00	
Repair shop.....	1,000 00	
Mechanical department.....	500 00	
Departments.....	300 00	
Laboratories.....	1,000 00	
Library and apparatus.....	50 00	
Incidentals.....	800 00	
Furniture and fixtures.....	500 00	
Heating apparatus.....	500 00	
Greenhouse.....	300 00	
Water supply.....	125 00	
Minnesota lands.....	100 00	\$52,675 00
School of Pharmacy.....	6,500 00	
School of Medicine.....	14,000 00	
Agricultural Experiment Station.....	4,500 00	
Water survey of the State.....	750 00	\$25,750 00
		\$78,425 00

On motion of Mr. McKay, \$50.00 was appropriated for the payment of Wilson, Moore & McIlvaine's bill for legal services rendered the University in the matter of the H. M. R. Construction Company's bond.

It was ordered that the President and Secretary make a requisition on the Auditor for a warrant on the State Treasurer for the sum of \$1,597.50 in favor of John R. Tanner, Governor, J. S. McCullough, Auditor of Public Accounts, and Henry L. Hertz, Treasurer, to be drawn from the appropriation made by the General Assembly for defraying the expenses for legal services in the matter of the Spalding defalcation, and to be used in the payment of the bill of Wilson, Moore and McIlvaine for legal services rendered amounting to said sum.

It was also ordered that a further requisition for \$500.00 be drawn in favor of the same persons from the same fund, to be paid as a retainer fee to C. E. Richards, of Red Oak, Iowa.

## COAL CONTRACT.

Mr. Smith from the Finance Committee made a report with regard to bids received for furnishing coal.

On motion of Mr. Bullard, the committee was directed to reject these bids and to call for bids again.

The committee was further instructed to report with regard to said bids to the Executive Committee, and the Executive Committee was given power to contract for coal for the ensuing year, in case a satisfactory contract could be made.

By request of President McKay, Mr. McLean occupied the chair for the rest of the session.

The Executive Committee made the following report:

URBANA, ILLINOIS, September 21, 1897.

*To the Board of Trustees.*

GENTLEMEN:—Your Executive Committee reports that at a meeting an appropriation of \$600.00 was made for the purpose of completing the repairs on Natural History Hall; \$500.00 to be used under the direction of Professor White, and \$100.00 to be used under the direction of Professor Rolfe.

Respectfully submitted,

F. M. MCKAY,  
S. A. BULLARD,

*Executive Committee.*

This action of the Executive Committee was confirmed.

#### APPOINTMENTS.

President Draper reported that he had engaged the following named instructors and assistants, pursuant to authority previously conferred by the Board:

John Perham Hylan, Ph. D., Instructor in Psychology, at \$80.00 a month for ten months.

Alice Putnam, Instructor in Violin, at \$80.00 a month for ten months.

Clarence Wolworth Alvord, A. B., Instructor in Mathematics and History, in the Preparatory School, at \$70.00 a month for ten months.

James Harry McKee, B. S., Assistant in Mechanical Engineering, at \$50.00 a month for ten months.

George David Hubbard, B. S., Assistant in Geology, at \$50.00 a month for ten months.

Herbert Anthony Weber, B. S., Assistant in General Engineering Drawing, at \$50.00 a month for ten months.

Charles Victor Seastone, B. S., Assistant in Theoretical and Applied Mechanics, at \$50.00 a month for ten months.

Richard Bird Ketchum, B. S., Assistant in Civil Engineering, at \$50.00 a month for ten months.

Hubert Vinton Carpenter, B. S., Assistant in Physics, at \$500.00 a month for ten months.

John Langley Sammis, B. S., Assistant in Chemistry, at \$50.00 a month for ten months.

Robert Watt Stark, B. S., Assistant in Chemistry on State Water Survey at \$50.00 a month for ten months.

Matthew Brown Hammond, Ph. D., Assistant in Economics, at \$50.00 a month for ten months.

Albert St. John Williamson, Assistant in Military Science and Tactics at \$10.00 a month for ten months.

The Secretary presented a statement of dues from students for the quarter ending June 30, 1897.

Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

F. M. MCKAY,  
*President.*