

## MEETING OF DECEMBER 8, 1896.

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

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

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

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

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

## REPORT OF THE DIRECTOR OF THE EXPERIMENT STATION.

UNIVERSITY OF ILLINOIS, November 30, 1896.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## ESTIMATES.

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

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

Respectfully submitted,

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

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

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

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

*To the Board of Trustees:*

I respectfully recommend the following appropriations to departments:

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

Respectfully submitted,

A. S. DRAPER,  
*President.*

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

#### LAW SCHOOL.

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

*To the Board of Trustees.*

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

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

Very truly yours,

A. S. DRAPER,  
*President.*

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

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

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

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

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

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

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

#### MEDICAL SCHOOL.

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

*To the Board of Trustees.*

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

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

The College of Physicians and Surgeons seems to stand exceedingly well in the public sentiment of Chicago. It is certainly one of the three most prominent and thoroughly well established institutions of its character in the city. Its location, in close proximity to the Cook County General Hospital, is highly advantageous. Its building is not of such a character as we would construct upon the part of the State of Illinois, but it is exceedingly roomy and apparently very well adapted to the purpose for which it is used. There were about 289 students in the institution last year and we are advised that there are 310 registered up to the present time this year. It seems to be shown that the tuition fees go considerably farther than is necessary to meet the expenses.

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

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

The committee therefore recommends:

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

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

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

Respectfully submitted,

JAMES E. ARMSTRONG,

*Chairman.*

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

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

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

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

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

#### SUMMER SCHOOL.

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

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

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

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

Respectfully submitted,

LUCY L. FLOWER,  
*Chairman.*

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

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

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

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

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

URBANA, ILL., December 5, 1896.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

The principal items of this amount are as follows:

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

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

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

Very respectfully submitted,

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

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

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

### TREASURER'S REPORT.

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

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

*Treasurer's Report—Continued.*

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

*Treasurer's Report—Concluded.*

1896.	Cr.		
September 30	By amount paid out of State appropriation for establishing, equipping and maintaining laboratory for propagation of pure vaccine virus, as per list of warrants attached hereto .....	\$527 65	\$104,631 04
	Balances—		
	General fund.....	\$6,844 73	
	Endowment fund.....	36,172 43	
	United States fund.....	18,547 57	
	U. S. Experiment Station fund.....	1,108 05	
	Farm fund.....	495 48	
	State Appropriations—		
	For salaries, etc.....	84,861 23	
	For library building.....	107,166 95	
	For library.....	3,001 05	
	For Laboratory Natural History.....	7,460 32	
	For Cabinets.....	1,648 95	
	For Engineering College.....	4,922 66	
	For Astronomical Observatory.....	4,527 30	
	For fitting and furnishing Engineering Hall.....	1,470 71	
	For expenses of Biological Experiment Station.....	1,506 97	
	For apparatus and material.....	2,995 42	
	For shop practice.....	1,809 56	
	For Laboratory of Vegetable Physiology.....	88 02	
	For fire protection.....	952 20	
	For paving streets and walks.....	63 09	
	For Laboratory of Pure Vaccine Virus.....	2,472 35	
		\$287,615 04	
	Less Overdrafts—State Appropriations—		
	For building and equipping Biological Experiment Station.....	\$6 97	
	For Chemical Laboratory.....	1,894 58	
		1,901 55	285,713 49
			\$390,344 53

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

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

## SESSION OF WEDNESDAY MORNING.

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

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

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

The committee on legislative appropriations made the following report:

## STATE APPROPRIATIONS.

UNIVERSITY OF ILLINOIS, Dec. 8, 1896.

*To the Board of Trustees:*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MEMORANDUM ESTIMATE OF STATE LABORATORY APPROPRIATIONS.

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

Respectfully submitted,

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

*Committee.*

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

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

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

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

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

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

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

This report was referred to the Finance Committee.

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

These reports were referred to the Finance Committee.

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

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

#### SESSION OF WEDNESDAY AFTERNOON.

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

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

#### BUSINESS MANAGER'S REPORT.

UNIVERSITY OF ILLINOIS, December 8, 1896.

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

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

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

*Paper B* is that of the State appropriations.

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

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

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

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

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

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

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

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

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

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

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

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





*Paper B—State Appropriations—Concluded.*

	Received.	Expended.	Balance.	Assigned.
<i>Salaries, etc.—Concluded.</i>				
Botany.....	\$150 00	.....	\$150 00	\$150 00
Mechanical laboratory.....	150 00	.....	150 00	150 00
Chemical laboratory and repairs.....	9,080 00	\$5,787 40	3,292 60	3,292 60
Furniture and fixtures.....	400 00	34 94	365 06	365 06
Furnishing and fitting Astronomical Observatory.....	300 00	.....	300 00	300 00
Unassigned.....	50,070 00	.....	50,070 00	.....
	\$180,000 00	\$106,461 34	\$73,538 66	\$23,468 66
<i>Apparatus and materials—</i>				
Closed out.....	\$1,400 00	\$1,400 00	.....	.....
Applied chemistry.....	100 00	.....	\$100 00	\$100 00
Chemistry.....	700 00	327 24	372 76	372 76
Psychology.....	300 00	219 09	80 91	80 91
Zoölogy.....	800 00	470 59	329 41	329 41
Physiology and hygiene.....	800 00	288 62	511 38	511 38
Botany and horticulture.....	680 00	381 39	298 61	298 61
Geology.....	400 00	.....	400 00	400 00
Mathematics.....	300 00	.....	300 00	300 00
Unassigned.....	520 00	.....	520 00	.....
	\$6,000 00	\$3,056 93	\$2,913 07	\$2,393 07
<i>Operating Biological Experiment Station.....</i>	\$3,000 00	\$1,539 91	\$1,460 09	\$1,460 09
<i>Biological Experiment Station equipment.....</i>	\$2,500 00	\$2,500 00	.....	.....
<i>Taxes on Minnesota lands.....</i>	\$3,200 00	\$3,200 00	.....	.....
<i>Paving streets, etc.....</i>	\$9,300 00	\$9,236 91	\$63 09	\$63 09
<i>Astronomical Observatory.....</i>	\$15,000 00	\$10,572 70	\$4,427 30	\$4,427 30
<i>Laboratory of Vegetable Physiology.....</i>	\$2,000 00	\$1,911 98	\$88 02	\$88 02
<i>Library Hall.....</i>	\$150,000 00	\$42,835 05	\$107,164 95	\$107,164 95
<i>Fire protection.....</i>	\$2,000 00	\$1,145 30	\$854 70	\$854 70
<i>Library.....</i>	\$6,000 00	\$3,207 87	\$2,792 13	\$2,792 13
<i>Cabinets—</i>				
Geology.....	\$400 00	\$351 05	\$48 95	\$48 95
General.....	600 00	.....	600 00	600 00
Unassigned.....	1,000 00	.....	1,000 00	.....
	\$2,000 00	\$351 05	\$1,648 95	\$648 95
<i>College of Engineering—</i>				
Machine shop.....	\$17,008 04	\$17,008 04	.....	.....
Mechanical engineering.....	3,104 85	2,655 96	448 89	448 89
Electrical engineering and physics.....	3,829 85	2,861 51	968 34	968 34
Civil engineering.....	1,852 42	1,233 56	618 86	618 86
Laboratory of Applied Mechanics and Municipal and Sanitary Engineering..	1,852 42	313 06	1,539 36	1,539 36
Architecture.....	1,752 42	1,275 81	476 61	476 61
College of Engineering.....	600 00	243 57	356 43	356 43
	\$30,000 00	\$25,591 51	\$4,408 49	\$4,408 49
<i>Furnishing and Fitting Engineering Hall—</i>				
Electric wiring.....	\$1,191 77	\$1,191 77	.....	.....
Civil engineering.....	478 43	402 23	\$76 20	\$76 20
Architecture.....	770 38	555 96	214 43	214 43
Municipal and Sanitary Engineering.....	401 30	219 53	181 77	181 77
Mechanical department.....	563 38	220 83	342 55	342 55
Electrical engineering and physics.....	1,193 39	763 10	430 29	430 29
College library, parlor, etc.....	400 95	244 28	156 67	156 67
	\$5,000 00	\$3,597 69	\$1,402 31	\$1,402 31
<i>Shop practice.....</i>	\$3,000 00	\$1,843 68	\$1,156 32	\$1,156 32
<i>Chemical Laboratory.....</i>	\$5,000 00	\$3,584 70	\$1,415 30	\$1,415 30
<i>Vaccine Laboratory.....</i>	\$3,000 00	\$600 75	\$2,399 25	\$2,399 25

## PAPER C—UNITED STATES FUND.

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

## PAPER D—LABORATORY OF NATURAL HISTORY.

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

## PAPER E—AGRICULTURAL EXPERIMENT STATION.

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

## PAPER F—SCHOOL OF PHARMACY.

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

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

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

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

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

Attention is called to *Paper Q*.

Respectfully submitted,

S. W. SHATTUCK,

*Business Manager.*

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

## APPROPRIATIONS.

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

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

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

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

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

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

The Committee on Buildings and Grounds made the following report:

URBANA, ILLINOIS, December 9, 1896.

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

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

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

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

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

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

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

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

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

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

respectfully submitted,

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

*Committee on Buildings and Grounds.*

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

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

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

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

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

The board adjourned.

W. L. PILLSBURY,

*Secretary.*

JAMES E. ARMSTRONG,

*President.*