

ADJOURNED SESSION, MONDAY, JUNE 27, 1892.

The Board met pursuant to adjournment in Room 44, Grand Pacific Hotel, Chicago, at 9 o'clock a. m., Monday, June 27, 1892. There were present Messrs. Bullard, Bryant, Clemens, Cobb, Funk, Graham, McKay, McLean and Shawhan; absent, Governor Fifer, and Messrs. Morgan and Raab.

The Regent presented the following report from the Agricultural Experiment Station:

AGRICULTURAL EXPERIMENT STATION.

Professor T. J. Burrill, Acting Regent of the University of Illinois,

DEAR SIR: The Board of Direction of the Agricultural Experiment Station of the University of Illinois makes this report of its work for the past three months.

The accompanying papers give the financial statements:

Paper A is a statement of the expenditures for the quarter ending March 31, 1892.

Paper B is a list of the warrants drawn during the same quarter, and with it are the vouchers for audit, No. 143 to No. 207, inclusive.

Paper C is a statement of expenditures for the current quarter up to June 15th.

Paper D is a statement of the estimates for the quarter ending September 30, 1892.

The Board of Trustees is asked to make appropriations of Station funds according to these estimates.

PAPER A—STATEMENT OF APPROPRIATIONS, EXPENDITURES, AND BALANCES FOR QUARTER
ENDING MARCH 1, 1892.

	Appropriated	Expended.	Balances.
Building and repairs.....	\$40 00	\$26 75	\$13 25
Board expense.....	40 00	20 96	19 04
Books and publications.....	50 00	50 00	.....
Botanical apparatus.....	60 00	45 66	14 34
Bulletins.....	750 00	228 24	521 76
Chemical apparatus.....	275 00	211 24	63 76
Fuel and lights.....	100 00	90 80	9 20
Incidentals.....	25 00	80	24 20
Printing, stationery, and postage.....	25 00	20 65	4 35

	Appropriated	Expended.	Balance.
Salaries	\$1,800 00	\$1,762 50	\$37 50
Seeds and trees	100 00	84 82	15 18
Tools and supplies	25 00	9 30	15 70
Wages and teams	800 00	735 11	64 89
<i>Sundry—</i>			
Dairying experiments	25 00	15 88	9 12
Corn and wheat experiments	25 00	.....	25 00
Total	\$4,140 00	\$3,302 71	\$837 29

PAPER C—STATEMENT OF EXPENDITURES FOR QUARTER ENDING JUNE 30, 1892.

	Appropriated	Expended.	Balance.
Building and repairs	\$500 00	.....	\$500 00
Board expense	40 00	.....	40 00
Books and publications	150 00	\$63 15	81 85
Botanical apparatus	150 00	.....	150 00
Bulletins	600 00	379 98	220 02
Chemical apparatus	50 00	44 13	5 87
Fertilizers	50 00	.....	50 00
Fuel and lights	150 00	.....	150 00
Incidentals	25 00	.....	25 00
Printing and stationery	25 00	4 85	20 15
Salaries	1,900 00	1,078 34	821 66
Seeds and trees	25 00	.....	25 00
Tools and supplies	50 00	46 43	3 57
Wages and teams	1,100 00	689 75	410 25
<i>Sundry—</i>			
Corn and wheat experiments	100 00	.....	100 00
Dairying experiment	100 00	.....	100 00
Total	\$5,015 00	\$2,311 63	\$2,703 37

PAPER D—ESTIMATES FOR QUARTER ENDING SEPTEMBER 30, 1892.

Building and repairs	\$25 00
Board expense	40 00
Books and publications	50 00
Botanical apparatus	60 00
Bulletins	200 00
Chemical apparatus	170 00
Fuel and lights	60 00
Furniture and fittings	15 00
Incidentals	25 00
Printing, stationery, and postage	25 00
Salaries	1,950 00
Seeds and trees	10 00
Tools and supplies	25 00
Wages and teams	1,150 00
<i>Sundry—</i>	
Beet and wheat experiments	60 00
Dairying experiments	50 00
Columbian Exposition work	50 00
Total	\$3,965 00

The Board of Direction will continue work on lines hitherto laid down and asks authority to take up one new experiment: To investigate methods of preventing smut in wheat.

The Board has appointed for the rest of this year E. K. Nelson as assistant in the Laboratory, at a salary of \$60 a month.

Respectfully submitted,

G. E. MORROW, *President Board of Direction.*

The vouchers were referred to the Finance Committee, and, on motion of Mr. Cobb, appropriations of Station funds were made as asked and authority was granted to make the experiment proposed. Also the appointment of Mr. Nelson was approved.

The President announced that Professor S. W. Stratton had notified him that he should not accept the appointment to the professorship of physics.

The Regent announced that Mr. G. M. Hobbs had notified him that he should not accept the position of assistant in physics.

Professor Burrill proposed Mr. William E. Sandford as second assistant in chemistry, at a salary of \$600 for ten months from September 1, 1892, and the appointment was made.

The Committee on Instruction nominated for the professorship of English language and literature Daniel Kilham Dodge, of Columbia College, N. Y. Mr. McLean nominated for the same place Mr. L. M. Castle, of the Springfield, Ill., high school. A vote was taken and Mr. Dodge was elected. On motion of Mr. Cobb, his salary was fixed at \$2,000 a year, from Sept. 1, 1892.

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

Resolved. That a committee consisting of the Acting Regent and Emory Cobb be appointed to visit and interview personally such candidates for the chairs of psychology and physics, or other vacant professorships, as have been presented by the Committee on Instruction, or others that may be known to them, and to report to the Committee on Instruction, making such recommendations as it may deem proper and to the best interests of the University, and that these committees are hereby authorized, after joint consultation, to secure the service of such applicants as they may agree upon, and appoint them to the several chairs.

The Committee on Instruction nominated Mr. Edward K. Hall, of Dartmouth College, class of 1892, to be instructor in athletics and director of the gymnasium, and he was elected for the ensuing college year, and it was voted that he should be paid not to exceed \$1,200 for the ten months from September 1, 1892, as might be agreed upon with him.

On motion of Mr. Cobb, it was voted to establish an assistant professorship in English literature, the place to be filled by the appointment of a woman, and the salary to be not to exceed \$1,500 a year.

In this connection there was presented the following resolution from the Association of the Alumni of the University:

WHEREAS, It is with pleasure that we view the growing departments here, to each and every one we say a hearty "God speed." But to those of us who were here from '74 to '80 there is something missing. Where

is the trained mind and warm heart to take Mrs. Gregory's place? Is it that we, who were girls then, did not cherish our privileges—those rare privileges,—blessings which we feel every day of our lives? Surely it might so seem did we not testify to them; therefore

Resolved, That in view of the fact of the large number of girls in attendance at the University each year, we recommend to the Trustees that a representative woman be made a member of the Faculty.

Also the following:

UNIVERSITY OF ILLINOIS, June 15, 1892

To the Board of Trustees of the University of Illinois.

GENTLEMEN: It is believed by the alumnae of the University of Illinois that greater facilities should be afforded to women attending the University; that instruction in branches pertaining to household science should form a part of the education open to women; that the departments of music and art should be extended and placed upon a more permanent basis; and that social culture in its highest forms should be a part of the training of college women.

Therefore, the consideration by your honorable body of the importance and practicability of the following is respectfully urged:

1. The establishment of a course in household science.
2. The erection of a building or buildings which may comprise special laboratories for scientific experiment and investigation in questions of household science, sanitation, and esthetics; lecture rooms, music rooms, art rooms, gymnasiums, dormitories, parlors, reception rooms, dining room, kitchen, and laundry.

It is believed that these measures would be effective in extending the scholarly attainments of women.

All of which is respectfully submitted by the Alumnae Association of the University of Illinois.

MARY L. PARSONS, *President*.

VIRGINIA H. TALBOT, *Corresponding Secretary*.

These papers were referred to the Committee on Instruction.

The Board then took a recess for one hour to 2:30 o'clock p. m.

The Committee on Instruction named for the place of assistant professor in English literature Miss Katharine Merrill, of the Harvard Annex, who was elected.

Mr. McKay, from the Committee on Instruction, read two letters which he had received from Dr. Washington Gladden, of Columbus, Ohio, and, on motion of Mr. McLean, the letters were referred to the committee appointed to secure a regent, and the committee was instructed to send two or more of its members to confer with Dr. Gladden.

On motion of Mr. Graham, these members of the committee were authorized to offer Dr. Gladden, if they should deem it best so to do, the regency of the University at such salary as might be agreed upon, not exceeding \$6,000 a year.

Mr. W. D. Pence was appointed assistant in the department of municipal and sanitary engineering, with a salary of \$300 for ten months from September 1, 1892, the service to be three hours a day.

Cyrus D. McLane was appointed instructor in general engineering drawing, at a salary of \$750 for ten months from September 1, 1892.

On motion of Mr. Graham, it was voted that the salaries of Mr. John Marten, Mr. C. A. Hart, and Miss Mary J. Snyder, all of the staff of the State Laboratory of Natural History, be continued for the next year from July 1, 1892, at the same rate as this year.

Professor Ricker's bill for \$32.09, paid for work on the sketches of the proposed new buildings, was ordered paid from current funds.

The Regent was authorized to fill the place of instructor in preparatory mathematics, the salary to be not more than \$75 a month for ten months from September 1, 1892.

The Regent presented nominations for fellowships by the executive committee of the Faculty, Herman S Piatt and Alice May Barber.

On motion of Mr. Shawhan, the nomination of Mr. Piatt was confirmed. Also, on motion of Mr. Shawhan, the nomination of Miss Barber was confirmed.

On motion of Mr. Graham, the matter of filling the other fellowships for this year was referred to the Faculty, with power to act.

On motion of Mr. Shawhan, the Regent was authorized to fill the place of first assistant in chemistry, should Mr. Forbes not accept.

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

To the Board of Trustees of the University of Illinois.

GENTLEMEN: Your Committee on Finance respectfully reports that it has carefully examined vouchers for warrants numbered 143 to 207 inclusive, issued by the Experiment Station from January 1 to March 31, 1892, and has found them correct and properly receipted.

ALEX. MCLEAN, } *Finance Committee.*
WM. W. CLEMENS, }

The following resolutions were presented from the Alumni Association:

Resolved, That the Association requests the Trustees to place in the hands of its Secretary the keeping of a correct alumni list.

Resolved, That we recommend to the consideration of the Board of Trustees the feasibility of granting the higher degrees of Ph.D., etc., as is customary in many allied colleges.

The Board granted the request made in the first of these resolutions, and referred the second resolution to the Committee on Instruction, directing it to report at the next meeting.

The Business Agent made the following report, in compliance with the request for information as to what the income would be for this year, ending December 31, 1892, from the sales of Minnesota lands already made:

UNIVERSITY OF ILLINOIS, June 24, 1892.

Report on income for the year ending January 1, 1893, from sales of Minnesota lands, to date:

Received from sales to January 1, 1892.....	\$6,696 42
Received from sales since January 1, 1892.....	4,055 73
Total.....	\$10,752 15
Interest on \$6,696.42, 12 months @ 5 per cent.....	\$334 82
Interest on \$4,055.73, 6 months @ 4 per cent.....	162 24
Interest on contracts, January 1, 1893.....	1,914 35
Total.....	\$2,411 41

Respectfully submitted,

S. W. SHATTUCK, Business Agent.

The Committee on Instruction reported progress with regard to the establishment of a law school, which subject was referred to the Committee at the March meeting, and was given until the next meeting to report in full.

The following communication was received from Mr. Heath, President of Alumni Association:

To the Board of Trustees of the University of Illinois.

GENTLEMEN: In accordance with the expressed wish of your members that you should bear the preliminary expenses incurred in preparing for the recent reunion of alumni, I respectfully submit the following statement, which includes only such items as are approved by the alumni committee and that of the Faculty:

First circular.....	\$3 50
Postage and envelopes.....	8 75
Second circular.....	6 50
Postage and envelopes.....	8 50
Invitations, etc.....	15 50
Postage.....	7 00
Total.....	\$49 75

We placed the price for the banquet so as to cover merely actual expenses, and the receipts covered them, with nothing left over.

As to the *success* of this gathering I prefer to let others speak. I beg leave to state, however, that every class was represented. Some 250 graduates, not including the class of '92, were in attendance at some time during the week, and some substantial testimonials remain.

I wish to thank your body, as a whole, and each member in particular, for the kindly interest you have exhibited toward the Alumni Association during the year I have served as its president. It has been my endeavor to bring the alumni into closer touch with the Trustees and Faculty, and to arouse in them a loyal, active enthusiasm which shall speak in *practical results* in the months and years to come. If *anything* in this line has been

done, I have not labored in vain. Let me bespeak for my successor, Mr. W. L. Abbott, the same interest and encouragement on your part, and suggest, in closing, that you endeavor to make yet closer, the bonds which unite your former students to their *alma mater*.

Respectfully yours,

W. A. HEATH.

It was ordered that the sum of \$49.75, from the current funds, be paid Mr. Heath.

The matter of the rules for the government of the students was referred to the executive committee of the Faculty to report upon at the September meeting.

On motion of Mr. Graham, Messrs. Funk, Clemens and McKay were appointed a committee to consider what changes, if any, should be made in the requirements in regard to studies made under the act of 1873.

Mr. McLean moved that a committee of three be appointed to compile the by-laws of the Board and report them at the next meeting.

The President appointed Messrs. McLean, Cobb, and Pillsbury such committee.

With regard to the communication from the Mechanical Engineering Teachers' Association, the Board instructed the Secretary to reply that it would not now assume the charges of a delegate to the meeting of the Association.

On motion of Mr. McLean, it was ordered that the arms, etc., held by the University, on loan from the United States War Department, be forthwith fully insured, as required by the Department. The \$23.45 asked for repairs upon rifles was appropriated from current funds.

On motion of Mr. McLean, \$200 of the state appropriation for the library was assigned for binding; \$220 was appropriated from current funds for work in the library during vacation, and \$150 from the same source for new cases.

On motion of Mr. Cobb, \$500 was appropriated from the state appropriation for instruction, for lectures before the College of Literature.

On motion of Mr. Graham, \$500 was appropriated from the same fund, for lectures before the College of Engineering.

A recess of one hour was then taken to 8 o'clock p. m.

NEW BUILDINGS.

As requested, Professor Ricker presented outline plans for three new buildings; and with them the following communication:

UNIVERSITY OF ILLINOIS, June 6, 1892.

To the Regent and Board of Trustees of the University of Illinois.

GENTLEMEN: In accordance with the instructions communicated to me, I have prepared sketches for the three proposed new University buildings, and herewith submit them, together with the following brief descriptions and estimates of cost.

1. THE ENGINEERING COLLEGE.

Extreme length 207 feet. Comprises basement, two principal stories and attic. Basement story, 14 feet in the clear, of coursed Bedford stone, floor of artificial stone or concrete. Principal and five side entrances. Three flights of stairs to upper stories. This story contains 14 laboratory and testing rooms, physical laboratory (divisible as preferred), apparatus room with lift to attic, gentlemen's clothes room, ladies' toilet and clothes room, and photo dark room.

First story also 14 feet in clear height, excepting physical lecture room, which is 16 feet high. This story contains 12 lecture rooms, faculty room, 9 professor's studies, professors' toilet room, physical or general lecture room, and apparatus room.

Second story same height, except engineering museum, which is 16 feet high. This story contains 12 drawing rooms, 2 studies, apparatus room, museum workshop, and engineering museum.

Third or attic story has its principal rooms 16 feet in clear height and contains five large halls or rooms, which may be assigned to engineering or architectural societies, used for drawing classes, etc. All are very strongly lighted by skylights in the roof.

This building is to have a stone basement, two stories of pressed brick with trimmings of moulded bricks and stone, and a slated roof, no deck roof. The tower is 125 feet in extreme height.

2. THE LIBRARY BUILDING.

Extreme length 250 feet, and extreme width 115 feet. Basement of stone, with two stories of pressed bricks, and a tinued roof with raised slated central portion. There are two main entrances to first story, and two side entrances to basement story, which is principally used for storage. The last are for the librarians, etc.

This building contains the following rooms: Two lecture rooms on first floor with raised concentric seating for 300 auditors each; clear height of story 16 feet; one large auditorium on second floor seating 600, and with same height of story; reading room on first floor 100 feet square and seating 1,000 to 1,200 students, the sides 14 feet in clear height under galleries and lighted by external windows, central portion extending to roof and lighted by large skylights in raised roof; 14 seminary rooms for advanced class study and original research in literary and scientific directions, arranged on gallery floor over reading room, and accessible by a gallery 8 feet wide, this gallery and the doors of all these rooms being under the eye of the librarian (these rooms will become an absolute necessity whenever the seminary system of advanced study is introduced into this University); librarian's room; cataloguing room; stack room with 3 stories 8 feet each in clear height and one 12 feet, these stories so arranged as to have lower story in basement and floor of second on same level with floor of reading room. The stack room is arranged to be cut off from remainder of building by fire proof doors in thick wall. Each story of stack room is arranged with radial book cases forming alcoves lighted by wide external windows, and with space in each for a table and several persons. Each story will hold 46,000 volumes of average size, making a total capacity of 184,000 volumes. In this plan I have tried to combine the advantages of the close stack and alcove systems, together with liberal provision for the introduction of the seminary system of instruction, and lecture rooms for classes too large to be accommodated by ordinary class rooms, especially in University Extension work.

3. NATURAL HISTORY MUSEUM.

Arranged to be located about 50 feet south of the Natural History Hall, leaving a space of 20 feet between it and Mr. Bronson's land. Extreme dimensions 124 feet square. Comprises basement story of stone and two stories of pressed brick with trimmings of stone and ornamental bricks

similar to those of Natural History Hall. Deck roof of tin over main square portion of the building, with a raised slated central portion. This building is connected with the principal floors of the Natural History Hall by corridors on the same levels. Also with side entrances to basement on east and west, with stairs to the different stories.

This building contains museum office, clothes and toilet room, also a large central hall 60 feet wide, galleries 14 feet high and 12 feet wide, central height 63 feet from floor, raised roof with skylights and supported by steel, hammer beam trusses: also two stories on each side of the building arranged in museum alcoves, 14 feet high in clear, and to be divided at pleasure.

This building is designed to combine the advantages of the popular museum with its large hall and galleries, all lighted from the roof and arranged to produce a pleasing and imposing effect, and intended to satisfy the popular interest, together with the scientific museum for specialists with its collections arranged in separate alcoves or rooms, each containing duplicate specimens, tables for work, etc., and other conveniences for original research.

4. ESTIMATES OF COST OF THESE BUILDINGS.

Owing to the very limited time at my disposal, it has been found possible to make careful approximate estimates only, based on the cost of similar structures. However, I believe that they may be taken as substantially correct:

1. Engineering College.		
Building only, fire-proof construction throughout.....	\$286,000	
Building only, fire-resisting construction throughout		\$108,000
(Similar to Natural History Hall.)		
Heating apparatus.....		22,000
Plumbing and sewers.....		1,000
Lighting, gas and electric.....		2,000
Other fixtures.....		2,000
Total for fire-resisting construction.....		\$135,000
2. Library Building.		
Building only, fire-proof construction throughout.....	\$300,000	
Building only, fire-resisting construction throughout.....		\$113,000
Heating apparatus.....		23,000
Plumbing and sewers.....		1,000
Lighting, gas and electric		4,000
Book cases.....		5,000
Other fixtures.....		2,000
Total for fire-resisting construction.....		\$148,000
3. Museum Building.		
Building only, fire-proof construction throughout.....	\$170,000	
Building only, fire-resisting construction throughout.....		\$65,000
Heating apparatus.....		13,000
Plumbing and sewers.....		1,000
Lighting, gas and electric.....		2,000
Other fixtures, except cases and furniture.....		1,000
Total for fire-resisting construction.....		\$82,000

Very respectfully submitted,

N. CLIFFORD RICKER, *Architect.*

On motion of Mr. McKay, it was voted that there be erected as soon as practicable a library building and a building for the College of Engineering, and that the plans for these buildings now before the Board be referred to the Committee on Buildings and Grounds with instructions to perfect preliminary plans and specifications for the September meeting of the Board.

The Committee on Buildings and Grounds asked that \$250 be paid Professor Ricker on his contract as architect of the Natural History Hall, and the amount was ordered paid upon motion of Mr. Graham.

On motion of Mr. Cobb, \$200 from state appropriation for buildings and grounds was appropriated for cages and lockers for engineering instruments. From the state appropriation for apparatus and material \$185 was assigned to the architectural department for materials and labor on cabinet; and from the U. S. fund \$59 for purchase of specimens of sanitary construction, for same department.

On motion of Mr. Cobb, the employment of an assistant in the carpenter shop was authorized, the person employed to give at least one-half his time to the work and to be paid \$30 a month.

On motion of Mr. Cobb, there was appropriated from the U. S. fund \$200, and from the state appropriation for apparatus and material \$300, to pay for apparatus, etc., imported for department of physics, and \$300 from the U. S. fund for apparatus and material for the physical laboratory.

On motion of Mr. Graham, \$50 was appropriated from the U. S. fund for the purchase of an anemometer, a water gauge, and for photographs and maps of mines, for the department of mining engineering.

On motion of Mr. Cobb, \$200 was appropriated from current funds for settees in chemical lecture room. On motion of Mr. Shawhan, \$500 was appropriated from current funds and \$500 from state appropriation for apparatus and material for apparatus, supplies, etc., imported for chemical laboratory. From current funds \$500 was assigned for the immediate purchase of supplies for the chemical laboratory.

From state appropriation for cabinets \$200 was appropriated for the collection of geological specimens.

From current funds \$100 was appropriated for commencement expenses.

From the state appropriation for buildings and grounds \$300 was appropriated for cleaning the buildings; \$150 for the care of the grounds; \$300 for general repairs.

The matter of repairs of the heating apparatus of University Hall and the Chemical Laboratory was referred to the Committee on Buildings and Grounds, with power to act.

Bills of Gamble & Stafford for \$7 for photographs, and of the Sheldon Brick Co. for \$15 for brick, were, on approval by the Committee on Buildings and Grounds, and, on motion of Mr. Cobb, ordered paid.

An expenditure of \$100 from state appropriation for buildings and grounds was authorized to be made on the closets in the basement of University Hall.

The Committee on Buildings and Grounds made the following report:

To the Board of Trustees of the University of Illinois.

GENTLEMEN: Your Committee on Buildings and Grounds desires to report that the work on Natural History Hall is progressing properly. Though the season has been unfavorable for rapid work, we still hope the building may be completed in the time set by the contract.

It seems to your committee that the heating apparatus for the new building should be placed in the same house as that of University Hall. This can be done by enlarging the present boiler house. The heating of the Chemical Laboratory should be provided for in fixing the plant for the new building. This can be done by enlarging the pipes sufficiently to justify the attachment of the heating apparatus of this building. The cost will be increased but will be very much cheaper in the end if done in this way.

We append the report of the architect and make it a part of our report.

S. A. BULLARD,	} <i>Committee on</i>
ALEXANDER MCLEAN,	
N. W. GRAHAM,	

Buildings and Grounds.

UNIVERSITY OF ILLINOIS, June 6, 1892.

To the Committee on Buildings and Grounds of the Board of Trustees of the University of Illinois.

GENTLEMEN: I beg leave to make the following report on the matters committed to my charge:

1. THE NATURAL HISTORY HALL.

The masonry of the building is now nearly completed, with the exception of the backing of the cornice, and the chimney caps. There has been very little difficulty in regard to the quality of the bricks furnished since your last meeting, though the contractor was compelled to purchase several car loads from other manufacturers in order to keep his men at work.

The galvanized iron cornices and gutters have been received, and partly delivered at the building; the placing of the cornice in its position will begin immediately, when the external walls will be carried to their full height.

The roof is entirely framed, ready for erection, so that a few weeks will make a very great change in the appearance of the building and make it secure against the weather.

At your last meeting I requested authority to arrange with the contractor for slated hipped roofs of steeper slope, over the mansard windows in the roof, but have never learned that any action was taken on this point. This would considerably improve the external appearance of the building, but would increase the cost somewhat. Unless instructed otherwise, it is necessary for me to carry out the work as per contract, which requires the dormer windows to be covered by flat tinued roofs.

In regard to the tinued deck roofs, I have decided to use a flat seamed roof of 20x28 tin, strongly nailed and with soldered seams, instead of the 14x20 tin with standing seams specified. The cost is the same, and the superintendent recommends the change, as it will make a better roof with the small inclination of roof used.

Samples of Acme, Fitzgerald, and King's Windsor cement plastering, submitted some time since by the contractor, have been carefully examined and tested in various ways. The last proved to be the hardest, strongest, and to stand submersion in water best, and it has accordingly been ac-

cepted for the building. It is to be mixed and applied in strict accordance with the printed directions supplied by the manufacturers. The finishing coat is to be the usual white, hard finish, composed of plaster of paris and lime paste, smoothly troweled and polished.

Mr. Jobst has been much delayed by bad weather, and has made formal application for an extension of time for completion in the manner provided in contract, but states that he still expects to complete the work as agreed, and will endeavor to do so if possible. He has certainly worked all the time possible on the building, and has had the worst season for building that has been known for many years. This matter will be left for the present, and I shall try to have the building ready at the time agreed upon.

The extra cost of additional cast iron girders, changes in flues, registers, etc., mentioned in my last report, will probably not be over \$50, though I cannot now report the exact amount. No change has yet been made without it was a manifest necessity.

Certificates have been issued for \$31,116.87, and the 10 per cent. reserve now amounts to \$3,457.43.

2. HEATING NATURAL HISTORY HALL.

Since I was directed to prepare sketches for three proposed new University buildings with estimates therefor, and to present them for consideration by the Board of Trustees at this meeting, this work has more than occupied my time, together with my regular work and such extra work as could not be postponed or delayed. I shall therefore be obliged to leave the plans and specifications for the heating, plumbing, and lighting of the Natural History Hall to a future meeting of your Committee, merely submitting a general programme, for which I request careful consideration, so that your preference may be expressed by definite instructions, if you so desire. I can then have bids ready for the work at that meeting.

I recommend that the present boiler house be enlarged by extending it south sufficiently to receive at least two additional boilers, with sufficient space for the storage of coal. The extension of the building would cost from \$2,500 to \$3,000. Boilers would cost \$800 to \$1,400 each, according to kind used.

Then to run a steam main supply pipe to a point near the southeast corner of the Chemical Laboratory, and thence to the south side of Natural History Hall. This main to be properly covered with heat proof coating, then packed in a wooden box and placed underground, similarly to the steam main to Military Hall. It will be necessary to return the water of condensation into a tank in basement of Natural History Hall, then pumping it back to boiler house, as it cannot be returned by gravity. This return can be placed in the ground without boxing.

Or, the steam main might be made sufficiently large to supply the Chemical Laboratory and the new museum, when erected. This would very materially increase the cost of the work now, but would be cheapest in the end.

This system would save the cost of separate boiler house and chimney, and would very much lessen the cost of firemen's wages, besides making it possible to take better care of the boilers and to make them last longer. The chimney is abundantly large for the purpose.

The working laboratories on the first and second floors are arranged for direct-indirect heating, fresh air passing directly through the boxed coils into the rooms, foul air being removed by the flues, thus making each room independent. The end entrance halls, central halls, and the third story rooms will be heated by direct coils.

3. PLUMBING OF NATURAL HISTORY HALL.

I propose to use best porcelain washout closets with tanks and without valves, four in all, trapped, and connected with Durham soil pipes with screw joints, extended through the roof and outside the building, connected with cement-jointed tile drain, discharging into main University sewer. Closets not cased in wood. Waste pipes from sinks and wash bowls to be of lead, properly connected with soil pipes. Supply pipes to be of wrought iron with proper cocks. All plumbing to be accessible and in sight, painted to harmonize with woodwork or adjacent walls. The locations of the fixtures have not yet been definitely settled by the professors concerned, so that this must be done before the contracts, drawings and specifications can be arranged.

4. LIGHTING OF NATURAL HISTORY HALL.

Gas will be required in some of the laboratories for heating purposes, and it will be necessary to run pipes and put in drop lights wherever they are required, perhaps lighting the lecture rooms so that they can be used in the evening, when necessary. These pipes must also run in sight, except for the third story, where they can be placed in the attic.

If electric lights are to be put into the University buildings soon instead of gas lights, it would be much better to wire this building for them, omitting most of the gas pipes and fixtures not required for heating purposes. I shall be glad to receive such instructions as the Committee desires to give in regard to this matter; otherwise, I shall endeavor to carry out the wishes of the professors concerned.

5. THE FRONT DOORS OF UNIVERSITY HALL.

The work was satisfactorily completed soon after your last meeting.

6. THE HEATING OF MILITARY HALL.

After the completion of the job, two extended series of experiments were made for determining the efficiency of the apparatus, and these showed that it was well constructed and arranged and properly protected from losing heat in the underground mains and returns. It will be found satisfactory, in my opinion, under any conditions likely to occur. The job was therefore accepted by the special committee in charge thereof, and the contractors have been paid in full.

Very respectfully submitted,

N. CLIFFORD RICKER, *Architect*.

On motion of Mr. Cobb, the state appropriation of \$10,000 for heating and furnishing Natural History Hall was assigned for those uses, and the general plan of heating, in connection with University Hall and the Chemical Laboratory, as outlined in the architect's report, was approved. The whole matter was referred to the Committee on Buildings and Grounds with power to act.

The Regent was given power to provide for instruction in music during the ensuing year, and was authorized to contract for the payment of \$300 a year for such service as has been rendered by Miss Kimball the past year.

Miss Kimball's bill for \$19.35 for music bought by direction of the Regent, was ordered paid from current funds.

An appropriation was made of the balance of state appropriation for Military Hall, \$469.14, for fitting up baths in that building.

On motion of Mr. Shawhan, the executive committee of the Faculty was authorized to arrange for the dedication of Natural History Hall when completed, keeping the expense within reasonable limits.

The executive committee of the Faculty was authorized to reassign rooms in University Hall.

An appropriation of \$40.50 from current funds was made for expenses of modeling in clay in the art department.

The special committee on the preparatory school made the following report:

To the Board of Trustees of the University of Illinois.

GENTLEMEN: Your committee to whom the reorganization of the preparatory department was referred begs leave to make the following report:

The preparatory school of the University shall be called The — Academy.

The courses of study shall extend over two years.

The courses preparatory to the COLLEGE OF LITERATURE shall be as follows:

1. *To the Schools of English and Modern Languages and of Philosophy and Pedagogy.*

FIRST YEAR.

1. English Grammar; Algebra; History; Latin.
2. English Rhetoric and Composition; Algebra; History; Latin.
3. English Rhetoric and Composition; Algebra; History; Latin.

SECOND YEAR.

1. English Literature; Geometry; Zoölogy; Latin.
2. English Literature; Geometry; Natural Philosophy; Latin.
3. English Literature; Physiology; Botany; Latin.

2. *To the School of Ancient Languages.*

FIRST YEAR.

1. English Grammar; Algebra; Latin; History.
2. English Grammar; Algebra; Latin; History.
3. English Grammar; Algebra; Latin; History.

SECOND YEAR.

1. Geometry; Zoölogy; Latin; Greek.
2. Geometry; Natural Philosophy; Latin; Greek.
3. Physiology; Botany; Latin; Greek.

The course preparatory to the COLLEGES OF AGRICULTURE, OF ENGINEERING, AND OF SCIENCE shall be as follows:

FIRST YEAR.

1. English Grammar; Algebra; History; French.
2. English Rhetoric and Composition; Algebra; History; French.
3. English Rhetoric and Composition; Algebra; History; French.

SECOND YEAR.

1. English Literature; Geometry; Zoölogy; German.
2. English Literature; Geometry; Natural Philosophy; German.
3. English Literature; Physiology; Botany; German.

For the proper administration of this academy we recommend the employment of a principal of ability and experience in all this work, who shall be a member of the Faculty.

We also recommend that the tuition in this department be ten dollars per term to all students except to those to whom one year scholarships may be granted.

Respectfully submitted,

G. R. SHAWHAN, }
T. J. BURRILL, } *Committee.*

The report was referred to the Regent and the Committee on Instruction to report on at the next meeting of the Board.

Adjourned.

W. L. PILLSBURY,
Secretary.

S. A. BULLARD,
President.