





UNIVERSITY HALL

# SIXTEENTH REPORT

(Seven annual, nine biennial.)

OF THE

## BOARD OF TRUSTEES

OF THE

# UNIVERSITY OF ILLINOIS

URBANA, CHAMPAIGN COUNTY, ILLINOIS

FOR THE TWO YEARS ENDING SEPTEMBER 30, 1892

---

SPRINGFIELD, ILL.

H. W. ROKKER. STATE PRINTER AND BINDER





UNIVERSITY OF ILLINOIS,

URBANA, November 1, 1892.

*Honorable* JOSEPH W. FIFER, *Governor of Illinois*,

SIR: I have the honor to submit to you herewith, in compliance with the law, the sixteenth report of the Trustees of the University of Illinois, for the two years ending September 30, 1892.

I am, very respectfully, your obedient servant,

WILLIAM L. PILLSBURY,

*Corresponding Secretary.*



# CONTENTS.

---

	PAGE.
Letter of transmittal .....	5
Board of Trustees.....	8
Faculty .....	9
Director and staff of State Laboratory of Natural History.....	12
Board of Direction and staff of Agricultural Experiment Station.....	12
Summary of students.....	14
Occupations of graduates.....	14
Proceedings of Board of Trustees, 1890-1891.....	15
Meeting of September 9, 1890 .....	15
Meeting of December 9, 1890.....	37
Meeting of March 10, 1891.....	51
Adjourned session, April 10, 1891.....	87
Meeting of June 9, 1891.....	89
Meeting of August 7, 1891.....	111
Financial reports and warrants, 1890-1891.....	116
Proceedings of Board of Trustees, 1891-1892.....	135
Meeting of September 8, 1891.....	135
Meeting of December 8, 1891.....	154
Meeting of March 8, 1892.....	197
Meeting of June 7, 1892.....	227
Adjourned session, June 27, 1892.....	248
Financial reports and warrants, 1891-1892.....	263
Report of State Laboratory of Natural History.....	284
Report of Agricultural Experiment Station.....	289
Index .....	293

## BOARD OF TRUSTEES.

---

### *EX-OFFICIIS.*

HON. JOSEPH W. FIFER, *Governor of the State of Illinois.*

HON. LAFAYETTE FUNK, *President State Board of Agriculture.*

HON. HENRY RAAB, *Superintendent of Public Instruction.*

---

### *TERM EXPIRES 1893.*

EMORY COBB, KANKAKEE.

GEORGE R. SHAWHAN, URBANA.

W. W. CLEMENS, MARION.

---

### *TERM EXPIRES 1895.*

FRANCIS M. MCKAY, CHICAGO.

ALEXANDER McLEAN, MACOMB.

SAMUEL A. BULLARD, SPRINGFIELD.

---

### *TERM EXPIRES 1897.*

RICHARD P. MORGAN, DWIGHT.

JOHN H. BRYANT, PRINCETON.

NELSON W. GRAHAM, CARBONDALE.

---

### *OFFICERS OF THE BOARD.*

SAMUEL A. BULLARD, SPRINGFIELD, *President.*

WILLIAM L. PILLSBURY, URBANA, *Secretary.*

JOHN W. BUNN, SPRINGFIELD, *Treasurer.*

PROFESSOR S. W. SHATTUCK, CHAMPAIGN, *Business Agent.*

---

### *EXECUTIVE COMMITTEE.*

SAMUEL A. BULLARD, *Chairman.*

EMORY COBB.

LAFAYETTE FUNK.

# FACULTY.

---

(IN ORDER OF SENIORITY OF APPOINTMENT.)

THOMAS JONATHAN BURRILL, M.A., PH.D., Acting Regent,  
Professor of Botany and Horticulture. *1107 Green Street, U.\**

SAMUEL WALKER SHATTUCK, M.A., C.E.,  
Professor of Mathematics. *108 West Hill Street, C.*

EDWARD SNYDER, M.A.,  
Professor of the German Language and Literature. *308 West Church Street, C.*

NATHAN CLIFFORD RICKER, M.Arch.,  
Professor of Architecture. *608 West Green Street, U.*

JAMES DOUGLASS CRAWFORD, M.A.,  
Professor of History and Secretary. *914 West Church Street, C.*

GEORGE ESPY MORROW, M.A.,  
Professor of Agriculture. *University Farm, U.*

IRA OSBORN BAKER, C.E.,  
Professor of Civil Engineering. *607 West University Avenue, C.*

STEPHEN ALFRED FORBES, Ph.D.,  
Professor of Zoölogy and Entomology. *1109 Springfield Avenue, U.*

JAMES HENRY BROWNLEE, M.A.,  
Professor of Rhetoric and Oratory. *914 Locust Street, U.*

CHARLES WESLEY ROLFE, M.S.,  
Professor of Geology. *207 West Green Street, U.*

DONALD MCINTOSH, V.S.,  
Professor of Veterinary Science. *505 West Church Street, C.*

ARTHUR NEWELL TALBOT, C.E.,  
Professor of Municipal Engineering. *617 West University Avenue, C.*

ARTHUR WILLIAM PALMER, Sc.D.,  
Professor of Chemistry. *201 West Church Street, C.*

FRANK FORREST FREDERICK,  
Professor of Industrial Art and Design. *501 Main Street, U.*

ELBRIDGE ROMEYN HILLS, First Lieut. 5th Artillery, U.S.A.,  
Professor of Military Science and Tactics. *404 Main Street, U.*

SAMUEL WILSON PARR, M.S.,  
Professor of Analytical Chemistry. *310 West Church Street, C.*

---

\* U. indicates Urbana; C., Champaign.

THE REV. MISAEL RAMA PARADIS, M.A.,  
Professor of the French Language and Literature. *913 West Green Street, U.*

HERBERT JEWETT BARTON, M.A.,  
Professor of the Latin Language and Literature. *306 West Hill Street, C.*

CHARLES MELVILLE MOSS, M.A., PH.D.,  
Professor of the Greek Language and Literature. *503 West Elm Street, U.*

WALTER JOHN BALDWIN, B.S.,  
Professor of Mining Engineering. *205 West Main Street, U.*

CHARLES WALTER SCRIBNER, A.B., M.E.,  
Professor of Mechanical Engineering.\* *407 North Elm Street, C.*

DANIEL KILHAM DODGE, A.M., PH.D.,  
Professor of the English Language and Literature. *†103 West University Av., C.*

GEORGE WILLIAM MYERS, M.L.,  
Assistant Professor of Mathematics. *601 West Green Street, U.*

KATHARINE MERRILL, A.B.,  
Assistant Professor of the English Language and Literature, and Preceptress.†  
*608 West Green Street, U.*

DANIEL WILLIAM SHEA, A.M., PH.D.,  
Assistant Professor of Physics.† *403 West Hill Street, C.*

WILLIAM OTTERBEIN KROHN, A.M., PH.D.,  
Assistant Professor of Psychology.† *205 West University Avenue, C.*

EDWARD KIMBALL HALL, A.B.,  
Director of the Gymnasium and Instructor in Athletics.†  
*403 West Hill Street, C.*

---

## INSTRUCTORS AND ASSISTANTS.

GEORGE WASHINGTON PARKER,  
Instructor in Wood Working and Foreman. *410 South Neil Street, C.*

RUFUS ANDERSON, M.E.,  
Instructor in Iron Working and Foreman. *1105 East Springfield Avenue, C.*

HOWARD STIDHAM BRODE,  
Assistant in Zoölogy. *601 John Street, C.*

JAMES McLAREN WHITE, B.S.,  
Assistant in Architecture. *106 West University Avenue, C.*

EDITH ADELAIDE SHATTUCK,  
Assistant in Drawing. *108 West Hill Street, C.*

GEORGE PERKINS CLINTON, B.S.,  
Assistant in Botany. *U.*

THOMAS ARKLE CLARK, B.S.,  
Instructor in English and Latin. *606 West Green Street, U.*

ROBERT HUMPHREY FORBES, B.S.,  
First Assistant in Chemistry. *809 West Church Street, C.*

FRANK DUANE GARDNER, B.S.,  
Assistant in Agriculture.† *507 John Street, C.*

---

\* Appointed in March, 1892.    † Appointed at the beginning of 1892-3.

CYRUS DANIEL McLANE, B.S.,  
Instructor in General Engineering Drawing.\* *307 North Prairie Street, C.*

WILLIAM EMANUEL SANDFORD, PH.C.,  
Second Assistant in Chemistry.\* *401 South State Street, C.*

WILLIAM DAVID PENCE,  
Assistant in Municipal and Sanitary Engineering.\* *106 West University Av., C.*

JOHN GIVEN THOMPSON, A.M.,  
Instructor in Mathematics. *511 West University Avenue, C.*

CYRIL BALFOUR CLARK,  
Assistant in Machine Shop. *602 John Street, C.*

HERVEY EDWIN PARKER,  
Assistant in Architectural Shop.\* *502 South Randolph Street, C.*

ALBERT LOUIS KUEHMSTED, M.E.,  
Assistant in Physics and Electrical Engineering.\* *201 West Park Street, C.*

G. NAPOLEONE CAROZZE,  
Instructor in Music.

---

## FELLOWSHIPS.

---

### *In College of Science.*

ALICE MAY BARBER, B.S.  
Assistant in Physiology. *1107 Green Street, U.*

### *In College of Literature.*

HERMANN S PIATT, B.A.,  
Assistant in Modern Languages. *603 West Clark Street, C.*

---

## NON-RESIDENT LECTURERS.

During the year the Board of Trustees authorized a course of lectures to students in the College of Engineering. In this course lectures upon the subjects named have been given by the following eminent specialists:

W. L. B. JENNEY, *Chicago.*  
Tall Building Construction.

DAVID L. BARNES, *Chicago.*  
Recent Locomotive Construction.

WILLIAM SOÖY SMITH, *Chicago.*  
Tall Building Construction.

J. A. C. WADDELL, *Kansas City, Mo.*  
Bridge Design.

---

\* Appointed at beginning of 1892-3.

GEORGE CUTTER, *Chicago.*  
Electrical Transmission of Power.

FRANCIS B. BADT, *Chicago.*  
Commercial Distribution of Power.

DANKMAR ADLER, *Chicago.*  
Design of Auditoriums.

---

## LIBRARY STAFF.

---

PROFESSOR JAMES DOUGLASS CRAWFORD, M.A.,  
Librarian. *308 West Church Street, C.*

CLEAVES BENNETT, B.L.,  
Assistant Librarian. *105 West University Avenue, C.*

---

## STATE LABORATORY OF NATURAL HISTORY.

---

### *Laboratory Staff.*

PROFESSOR STEPHEN ALFRED FORBES, PH.D.,  
Director of State Laboratory and State Entomologist. *1109 Springfield Av., U.*

PROFESSOR THOMAS JONATHAN BURRILL, M.A., PH.D.,  
Botanist. *1107 West Green Street, U.*

CHARLES ARTHUR HART,  
Office Entomologist. *915 West Green Street, U.*

JOHN MARTEN,  
Field Entomologist. *602 West Hill Street, C.*

MARY JANE SNYDER,  
Stenographer. *601 John Street, C.*

---

## BOARD OF DIRECTION OF THE AGRICULTURAL EXPERIMENT STATION.

---

PROFESSOR GEORGE E. MORROW, President.

FROM THE STATE BOARD OF AGRICULTURE,  
E. E. CHESTER, Champaign.

FROM THE STATE HORTICULTURAL SOCIETY,  
HENRY M. DUNLAP, Savoy.

FROM THE STATE DAIRYMEN'S ASSOCIATION,  
H. B. GURLER, DeKalb.

EMORY COBB, Kankakee.  
LAFAYETTE FUNK, Shirley.  
PROFESSOR THOMAS J. BURRILL.  
PROFESSOR STEPHEN A. FORBES.  
EDWARD H. FARRINGTON.



*Station Staff.*

PROFESSOR GEORGE ESPY MORROW, M.A.,  
Agriculturist. *University Farm, U.*

WILLIAM LOW PILLSBURY, M.A.,  
Secretary. *504 West Elm Street, U. Office, third story of Chemical Building.*

PROFESSOR THOMAS JONATHAN BURRILL, PH.D.,  
Horticulturist and Botanist. *1107 West Green Street, U.*

EDWARD HOLYOKE FARRINGTON, M.S.,  
Chemist. *201 Randolph Street, C.*

PROFESSOR STEPHEN ALFRED FORBES, PH.D.,  
Consulting Entomologist. *1109 Springfield Avenue, U.*

PROFESSOR DONALD MCINTOSH, V.S.,  
Consulting Veterinarian. *505 West Church Street, C.*

GEORGE WASHINGTON MCCLUER, B.S.,  
Assistant Horticulturist. *505 John Street, C.*

GEORGE PERKINS CLINTON, B.S.,  
Assistant Botanist. *U.*

ELNATHAN KEMPER NELSON,  
Assistant Chemist. *601 John Street, C.*

FRANK DUANE GARDNER, B.S.,  
Assistant Agriculturist. *507 John Street, C.*

---

NOTICE.

---

The Bulletins of the Agricultural Experiment Station will be sent free of charge to any person in the State of Illinois who is engaged in agricultural pursuits, and who will send his name and postoffice.

Address:

AGRICULTURAL EXPERIMENT STATION,  
Champaign, Ill.

## SUMMARY OF STUDENTS.

BY CLASSES.	1890-91.			1891-92.		
	Men...	Women.	Total...	Men...	Women.	Total...
Resident graduates.....	1	2	3	5	3	8
Seniors .....	37	12	49	41	5	46
Juniors .....	49	6	55	50	7	57
Sophomores.....	90	11	101	93	8	101
Freshmen .....	136	20	156	157	27	184
Preparatory .....	112	20	132	137	26	163
Special .....	19	4	23	11	13	24
<b>Total .....</b>	<b>444</b>	<b>75</b>	<b>519</b>	<b>494</b>	<b>89</b>	<b>583</b>
<b>BY COURSES.</b>						
Agriculture.....	22	.....	22	11	.....	11
Mechanical engineering.....	78	.....	78	88	.....	88
Electrical engineering .....	1	.....	1	29	.....	29
Civil engineering.....	95	.....	95	87	.....	87
Mining engineering.....	5	.....	5	6	.....	6
Architecture .....	73	.....	73	91	1	92
Chemistry.....	50	1	51	41	4	45
Natural history .....	35	16	51	40	13	53
Art and design.....	.....	4	4	.....	7	7
Music.....	.....	.....	.....	.....	2	2
English and modern languages.....	52	43	95	54	45	99
Latin.....	.....	.....	.....	3	1	4
Classical.....	12	5	17	12	5	17
Pedagogy.....	.....	.....	.....	1	.....	1
Not specified.....	21	6	27	31	11	42
<b>Total .....</b>	<b>444</b>	<b>75</b>	<b>519</b>	<b>494</b>	<b>89</b>	<b>583</b>

## ABSTRACT OF OCCUPATION OF GRADUATES.

	Men.	Women.	Total.
Farmers.....	41	.....	41
Civil engineers .....	75	.....	75
Machinists.....	43	.....	43
Mining engineers.....	7	.....	7
Architects.....	40	1	41
Electricians.....	13	.....	13
Manufacturers.....	14	.....	14
Druggists and chemists.....	23	.....	23
Mercantile pursuits.....	55	.....	55
Teachers.....	56	31	87
Clergymen.....	1	.....	1
Lawyers.....	53	.....	53
Physicians.....	26	1	27
Editors.....	9	.....	9
Miscellaneous.....	50	8	58
Not specified.....	42	3	45
Women married.....	.....	68	68
Women at home.....	.....	24	24
Died.....	19	5	24
<b>Total.....</b>	<b>567</b>	<b>139</b>	<b>706</b>

PROCEEDINGS  
OF THE  
BOARD OF TRUSTEES  
OF THE  
UNIVERSITY OF ILLINOIS,  
FOR THE YEAR ENDING AUGUST 31, 1891.

---

MEETING OF SEPTEMBER 9, 1890.

---

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, at 3:30 o'clock p. m., September 9, 1890.

The members present were Messrs. Bullard, Cobb, Harker and Shawhan; absent, Governor Fifer, and Messrs. Bennett, Clemens, Edwards, Haskell, McKay, McLean and Millard.

There being no quorum present, the Board adjourned to meet at 3 o'clock p. m., September 23, 1890.

SESSION OF SEPTEMBER 23, 1890.

The Board met pursuant to adjournment at 3:30 o'clock p. m., September 23.

The members present were Messrs. Bennett, Bullard, Cobb, Edwards, Harker, Haskell, McKay, McLean and Shawhan; absent, Governor Fifer and Messrs. Clemens and Millard.

The minutes of the meeting were approved.

The Regent then presented his report, as follows:

#### REGENT'S REPORT.

*To the Trustees of the University of Illinois.*

GENTLEMEN: Since your last meeting the Congress of the United States has passed an act for the benefit of the land grant colleges founded under act of 1862.

The text of the act is as follows:

AN ACT to apply a portion of the proceeds of the public lands to the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts established under the provisions of an act of Congress approved July second, eighteen hundred and sixty-two.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That there shall be, and hereby is, annually appropriated, out of any money in the Treasury not otherwise appropriated, arising from the sales of public lands, to be paid as hereinafter provided, to each state and territory for the more complete endowment and maintenance of colleges for the benefit of agriculture and the mechanic arts now established, or which may be hereafter established, in accordance with an act of Congress approved July second, eighteen hundred and sixty-two, the sum of fifteen thousand dollars for the year ending June thirtieth, eighteen hundred and ninety, and an annual increase of the amount of such appropriation thereafter for ten years by an additional sum of one thousand dollars over the preceding year, and the annual amount to be paid thereafter to each state and territory shall be twenty-five thousand dollars to be applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction: *Provided,* That no money shall be paid out under this act to any state or territory for the support and maintenance of a college where a distinction of race or color is made in the admission of students, but the establishment and maintenance of such colleges separately for white and colored students shall be held to be a compliance with the provisions of this act if the funds received in such state or territory be equitably divided as hereinafter set forth: *Provided,* That in any state in which there has been one college established in pursuance of the act of July second, eighteen hundred and sixty-two, and also in which an educational institution of like character has been established, or may be hereafter established, and is now aided by such state from its own revenue, for the education of colored students in agriculture and the mechanic arts, however named or styled, or whether or not it has received money heretofore under the act to which this act is an amendment, the legislature of such state may propose and report to the Secretary of the Interior a just and equitable division of the fund to be received under this act between one college for white students and one institution for colored students established as aforesaid, which shall be divided into two parts and paid accordingly, and thereupon such institution for colored students shall be entitled to the benefits of this act and subject to its provisions, as much as it would have been if it had been included under the act of eighteen hundred and sixty-two, and the fulfillment of the foregoing provisions shall be taken as a compliance with the provision in reference to separate colleges for white and colored students.

SEC. 2. That the sums hereby appropriated to the states and territories for the further endowment and support of colleges shall be annually paid on or before the thirty-first day of July of each year, by the Secretary of the Treasury, upon the warrant of the Secretary of the Interior, out of the Treasury of the United States, to the state or territorial treasurer, or to such officer as shall be designated by the laws of such state or terri-

tory to receive the same, who shall, upon the order of the trustees of the college, or the institution for colored students, immediately pay over said sums to the treasurers of the respective colleges or other institutions entitled to receive the same, and such treasurers shall be required to report to the Secretary of Agriculture and to the Secretary of the Interior, on or before the first day of September of each year, a detailed statement of the amount so received and of its disbursement. The grants of moneys authorized by this act are made subject to the legislative assent of the several states and territories to the purpose of said grants: *Provided*, That payments of such installments of the appropriation herein made as shall become due to any state before the adjournment of the regular session of legislature meeting next after the passage of this act shall be made upon the assent of the governor thereof, duly certified to the Secretary of the Treasury.

SEC. 3. That if any portion of the moneys received by the designated officer of the state or territory for the further and more complete endowment, support, and maintenance of colleges, or of institutions for colored students, as provided in this act, shall by any action or contingency, be diminished or lost, or be misapplied, it shall be replaced by the state or territory to which it belongs, and until so replaced no subsequent appropriation shall be apportioned or paid to such state or territory; and no portion of said moneys shall be applied, directly or indirectly, under any pretense whatever, to the purchase, erection, preservation, or repair of any building or buildings. An annual report by the president of each of said colleges shall be made to the Secretary of Agriculture, as well as to the Secretary of the Interior, regarding the condition and progress of each college, including statistical information in relation to its receipts and expenditures, its library, the number of its students and professors, and also as to any improvements and experiments made under the direction of any experiment stations attached to said colleges, with their costs and results, and such other industrial and economical statistics as may be regarded as useful, one copy of which shall be transmitted by mail free to all other colleges further endowed under this act.

SEC. 4. That on or before the first day of July in each year, after the passage of this act, the Secretary of the Interior shall ascertain and certify to the Secretary of the Treasury as to each state and territory whether it is entitled to receive its share of the annual appropriation for colleges, or of institutions for colored students, under this act, and the amount which thereupon each is entitled, respectively, to receive. If the Secretary of the Interior shall withhold a certificate from any state or territory of its appropriation the facts and reasons therefor shall be reported to the President, and the amount involved shall be kept separate in the Treasury until the close of the next Congress, in order that the state or territory may, if it should so desire, appeal to Congress from the determination of the Secretary of the Interior. If the next Congress shall not direct such sum to be paid it shall be covered into the Treasury. And the Secretary of the Interior is hereby charged with the proper administration of this law.

SEC. 5. That the Secretary of the Interior shall annually report to Congress the disbursements which have been made in all the states and territories, and also whether the appropriation of any state or territory has been withheld, and if so, the reasons therefor.

SEC. 6. Congress may at any time amend, suspend, or repeal any or all of the provisions of this act.

Approved August 30, 1890.

Under the provisions of this act it is evident that fifteen thousand dollars are due to this University, and, I understand, will be paid as soon as the proper arrangements may be perfected at the departments at Washington, and the necessary assent can be obtained from the governor of the state. A letter from the First Controller of the Treasury has been published in which he states that the money appropriated by the act for the

years ending June 30, 1890, and June 30, 1891, amounting to thirty-one thousand dollars, is now due and payable, as soon as the proper formalities may be arranged.

It will be observed that this act explicitly states the uses to which this money must be applied. It will not be difficult to meet these conditions.

It will be remembered that much criticism has been urged against the so-called land grant colleges, as to their administration of the endowment funds entrusted to them under the provisions of the act of 1862, criticism which was evidently not warranted by a careful and intelligent reading of that act. Those who have procured the insertion of the amendment in the act just passed, which specifies the uses to which this money may be put, have evidently formulated the interpretation which they would like to have put upon the act of 1862. Without pausing to discuss the propriety of this interpretation, it may be appropriate to put again upon record these facts, as to the administration of this institution, thus briefly stated.

During the last ten years the income from the endowment of this University, derived from the land grant, has varied from \$17,000 to \$25,000. During the same years, the sums expended directly for salaries, paid to professors for teaching the branches of learning included in the specification of the new act, have ranged from \$30,000 to \$38,000. The University has paid about \$12,000 per annum for instruction in these branches more than it has received from the endowment derived from the land grant act of 1862.

The Trustees of this University, upon the reception of the proceeds of the so-called Morrill college aid act, will have in their treasury for administration four distinct funds, to-wit:

1. The income from the endowment derived from the land grant act of 1862, which for the current year is about.....	\$24,000
2. The amount of the state appropriation for current expenses of instruction, which, not including specific sums for other special purposes, is for the current year.....	20,000
3. The amount derived from students' fees, which for the current year is estimated at.....	12,000
4. The amount to be paid under the Morrill aid act, which is, probably, for the current year.....	15,000
The total amount enumerated is.....	\$71,000

In the next few years the first item will gradually diminish. The second is subject to the will of the legislature. The third will probably gradually increase. The fourth will increase by \$1,000 per annum until it reaches the maximum of \$25,000.

The permitted application of these funds varies. The fourth, that from the Morrill aid act, is limited by the act to a specific line of work. This limitation is without doubt an expression of the views of those who caused it to be inserted in the act, as to the limitations which ought to be understood as applying to the use of the funds provided by the land grant act of 1862, although neither required nor intended by the terms of that act. The second and third items, the moneys derived from state appropriations and from students' fees, are wholly within the untrammelled control of the Trustees of the University.

Conceding then, for the sake of the argument, that the statement of the purposes of the Morrill aid act should be taken as the interpretation of the original land grant act, the requirements of the two will be met by this University when it uses per annum a sum not to exceed \$40,000 for "instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, and for the facilities for such instruction." It is evident, therefore, that giving to those who hold the views referred to all that they claim, whether rightfully or not, namely, that the moneys derived from

the acts of 1862 and of 1890 should all be expended for the purposes expressed in the limitation quoted above, this University will be doing all that even they require of it, if it uses for these purposes in addition to the sums already so appropriated the sum of be seven three and four thousand dollars per annum. I present this as an answer to the demands, already made, that the colleges which have the benefit of the act of 1862, and therefore are the beneficiaries under the act of 1890, ought to enlarge their facilities for instruction in agriculture and the mechanic arts over and above anything that they may already have been doing, to the full amount of the \$15,000, which may be received from the United States during the current year. If this University shall use \$40,000 this year for the purposes thus narrowly defined it will have used all that—and it may be rightly urged more than—these acts require to be so used, and the remainder of the funds under its control may be used for any purpose of university education at the discretion of this governing body. This does not imply that no more than this sum may be so used, if the Trustees please: no blame can attach to them if they do not please to use more for these purposes.

Whatever be the special use to which this money may be applied, there can be no doubt in the mind of any person, and least of all in the mind of one who was present at some of the discussions in the committee room, and in the senate chamber when this bill was under consideration, that its purpose is to enable the land grant colleges to enlarge the scope of their operations, to extend their courses of study, to add greater facilities of instruction, to pay better salaries to professors heretofore underpaid; in short, to help them to be stronger and more efficient.

It can hardly be supposed that this bill would have been passed if it could have been thought that the aid thus offered would be made an excuse in any quarter for cutting off aid that had heretofore been derived from that quarter. Yet my experience in the affairs of the University leads me to fear that if prompt measures be not taken by this Board to put these funds into immediate and active use, if the machinery of the University be not enlarged in proportion to the increased funds at your command, so that any considerable portion of the funds be found unoccupied and inactive, there is great danger that the state appropriations may be diminished by an amount equal to or even greater than this generous donation, so that, in the end, the finances of the University may be impaired rather than benefited. I am, therefore, strongly of the opinion that an active and aggressive policy should at once be formulated and adopted.

There is a yet unsettled question whether the amount of money from this new source which is available for the current year be \$15,000 or \$16,000. One or the other of these sums is sure to be in the control of this Board as soon as the departments at Washington shall formulate the preliminaries necessary to the payment of the fund, and it matters little which of the sums named is that to be realized. If both of these sums be immediately forthcoming, then one should be considered as belonging to the current year, and the other should be the subject of special consideration. Setting this aside, for the present, let us return to the question, What shall be done with the new fund offered for the current year, 1890-91?

It appears to me that we should scrutinize the whole equipment of the University, and seek to add strength wherever we find that there is weakness. We must take proper thought, as before suggested, that the special purposes named in the acts have their full, and even more than their full consideration. That precaution being kept fully in view, the next aim should be to enlarge the scope of the University's work wherever it needs it most. As to this I beg leave to present a few suggestions:

1. I would inquire whether the University might not properly take upon itself a larger portion of some of the burdens which are borne jointly by itself and the Experiment Station, so that the latter may be less closely cramped. Is it not possible that a larger part of the salaries

of Professors Burrill and Morrow and some part of the salary of the Secretary be charged to the University account? It seems so to me, and that these changes may be made to the amount of a thousand dollars.

2. At the June meeting I referred to the vacancy in the professorship of mining engineering, as one which should be filled, but which then ought to wait until more pressing necessities were supplied. But those were supplied, and I think this now stands properly in turn demanding consideration. In spite of the fact that this chair is vacant, the number of students who are asking for instruction in mining engineering is increasing, especially in the lower classes. I am sure that if the right man can be secured—which I am well aware is no easy task—this department will in a few years grow from the present small beginning, as the school of architecture has grown in years that are past.

3. The chemical department is rapidly growing in importance, and its work is very varied and elaborate. I think another professor should be put upon this work. I am not sure that I would advise the resuscitation of the old chair of agricultural chemistry, except for the slight advantage of a rather taking name. The really important line of division is between the inorganic and the organic chemistry, which latter portion includes the agricultural chemistry as one of its applications. If another man could take the inorganic work it would then be possible to realize a plan which I have long cherished as of much value, viz: To have two distinct courses of chemistry: one, as now, for the students who intend to take a full course and graduate from this school; and another, quite distinct in its scope and outlines, for a very large class of students from other schools who want an outline of this, as of other sciences, not so full and so elaborately minute as is demanded by one who intends to become a professional chemist, but fitted to supplement his studies in other directions. This, to my thinking, most desirable division has not yet been made, because the teaching force has not been adequate to the work of two or more classes, in the same collegiate years. The result has been to give to those who had but small relative time for chemistry, a fragment of a larger course rather than a special course fitted to their demands.

The members of the Board who have been longest on duty will remember that these ideas are not now for the first time presented. If they have not had the practical application which they seem to deserve, the reason is now apparent.

It has been suggested that the mining engineer might also teach some of the chemistry, particularly assaying, metallurgy, etc. This he might, at least for a time, but this will not give the relief which I have indicated.

4. I believe it would be an advantageous arrangement to relieve Professor Burrill of the instruction in horticulture. This might readily be done by calling into the work the assistant horticulturist of the Experiment Station, as instructor in this subject, making a proper adjustment of the pay for this duty.

Aside from the changes involved in these four suggestions, my own observation, supplemented by diligent inquiry of the heads of the several departments, leads me to believe that no other changes are now needed in either of the three technical schools. It will be remembered that the school of engineering, especially, received very considerable additions to its instructive force at the last meeting of the Board.

These additions, if made, will more than fill up the quota of expenditures which can rightfully be claimed as required by the specific statements of the land grant and Morrill aid acts.

Let us turn now and examine the needs of the literary side of the University.

5. The time seems to me a fitting opportunity for meeting the request once made by the State Teachers' Association, and urged by the most eminent educators throughout the state. I refer, as you have already divined, to the establishment of a chair of pedagogy—or, as I should pre-



fer to name it, a chair of psychology and pedagogy. This should command the services of a vigorous, well balanced, and effective man, who will deserve the best salary that the University can pay. I can scarcely conceive a step which would so well commend the University to the educators of the state, as would this, and I most confidently commend it to your attention.

6. Our course in ancient languages—one that the University of Illinois, if it claims such a title, can scarcely afford to be without—has long suffered for the want of a distinct instructor of the Greek language. I do not wish to intimate that the work in this language has not been conscientiously and thoroughly performed. Such an intimation would be an unjust reflection upon an accomplished professor. But this language needs its own definite recognition. We do not get our proper quota of students in this department because the teachers of the state, looking at our catalogue, think they see that we are not adequately prepared for their instruction. I recommend the early appointment of a professor of Greek.

7. I would recommend the appointment of a professor of French, did I not believe that a change now would be an injustice to the incumbent, who was appointed last June, and has in good faith entered on the discharge of the duties assigned. But while it seems to me that equity and fairness forbid any present action, I would have such an understanding as should make it easy to have a suitable nomination ready at the end of the current year.

8. An instructor in preparatory English ought to be furnished in the winter and spring terms. Professor Brownlee's legitimate business is growing with the constant growth of classes. Instead of his carrying this preparatory work, there is grave question whether he should not have an assistant in his work with the University classes. Weekly contact with the essays and oratory of 350 students, is work which needs to be tried to be appreciated. It is possible that in this place there may be found an opening for the woman we have so long desired, if perchance we may find a woman for the opening.

These propositions, if they should meet your approval, will require the use of about \$11,000 per annum. It may be that you will think that as far as it is necessary and wise to go now. One or two other things I would mention.

9. It seems to me that the University can and should pay its Business Agent something more than the pittance he now receives for the business he transacts. He handles in and out this year nearly \$100,000 in money; he keeps accounts and collects pay from 500 students; he acts as banker for a large number of them, taking deposits and keeping bank books in sums individually too small to yield any profit in any way, yet amounting to a very considerable aggregate of care and responsibility. He is in his business office every day in the week except Sunday, and every week in the year, except maybe ten or twelve days between warrants in the summer. He does as much teaching as his colleagues average, who receive the same salary for instruction; and for all this extra work, care, and responsibility he receives the sum of \$300 a year. His integrity is unquestioned and his industry unbounded. He has not complained to me, nor does he imagine that I will present to you this paragraph; but I submit that he should have more compensation, from somebody, for this business agent's work.

10. We have a new Military Hall, which has always been counted, in part, as a place for a gymnasium. There is a considerable equipment of apparatus. There is a great and growing desire for gymnastic exercise and for athletic sports. This is an existing fact. People may say let the boys exercise in the shops and on the farm. The same men will advise their boys that fish will not bite them if they do not go near them.

The University has never yet given to this matter the attention which the exigencies of the case demand. The management has been left largely in the hands of the boys. Sometimes the most reputable have held the helm. Sometimes the other and opposite class. I must ask you to consider

whether the time is not now at hand when something shall be done to bring this into proper relationship and adjustment with the other interests of the University. But let me not be understood as saying that this has been running wild. It has rather languished for want of proper care.

I wish to advise that at an early day—now, if you shall see your way to approve the ideas which may be presented—there be appointed an instructor for the gymnasium. If I could, I would follow the examples of Amherst, Cornell, and other institutions, some not so important as our own, and appoint a professor of physical culture. I would put all the young men into his hands, as for another purpose all are put into the hands of the professor of rhetoric and oratory. I would make his headquarters, or his class room, at the Military Hall, which should be open in his presence and under his personal supervision a good portion of every day, so that the students may have regular discipline at certain hours, each for each, as their scholastic duties may permit. This will ultimately involve some cost. There will be need of more apparatus, which may be added from time to time. At some future day, I hope not too far off, there should be erected as an addition to the Military Hall on the north side, a suitable annex for a dressing and wash room, with facilities for bathing, etc., etc. This you will say is looking into the future. It is so, in some respects, but the man I would have to-day, if possible; if not, as soon as I could get him. The man should be an athlete, a gentleman, and a professor.

You will naturally ask what about the women? I reply I would furnish them equal facilities as soon as possible, but the opening is not now so apparent as in the other case. The great deficiency is a room suitable for the purpose.

And this leads me to this remark, that our buildings, large as they are, will be filled to their last apartment, if you shall see fit to make such appointments as have been brought to your attention. The University may or may not accommodate a thousand students; it has not apartments enough for the instructors which so many students demand.

I think I ought to raise this question for your early consideration, viz: Should movements be begun preparing to ask of the legislature the means for the erection of a biological building and museum, in which may be gathered the departments of botany, zoölogy, geology, and physiology with their respective collections? Such a building should be spacious, arranged on the best and most approved plans, and, if possible, fire-proof. The removal of these specialties from University Hall will furnish room much needed for the expansion of other departments; just as the Military Hall has given needed expansion to the mechanical department.

Returning to the consideration of the new fund from the Morrill aid act, there will still remain some money unprovided for. This may lie over for another year, or be expended for the "facilities for instruction," which facilities, it must be remembered, must be such as are germane to the special subjects set down in the act. They may be books, if the books are such as relate to the sciences specified. They may be apparatus, physical, chemical; machines, engineering instruments, etc.

Some intimations have been received that we may receive quite soon, not only the money appropriated as of June 30, 1890, but also that appropriated as of June 30, 1891. If that be the case, it may be necessary to consider the \$16,000, which is the latter item, as the money belonging to the current year 1890-91; and to determine what shall be done with the \$15,000 belonging to the year before. There is nothing in the law itself, demanding the expenditure and accounting for each year's appropriation within the year, with a *quasi*-penalty for failure to expend and report, as in the case of the appropriations for the Experiment Station. Yet I apprehend that most will recognize the advisability of so providing for the use of the money for appropriate and legitimate purposes, as to permit the carrying forward from year to year of no more than is needful for proper working balances.

It does not appear to me that the intimations referred to above need influence any action of the Board at this time touching the expenditure of the fund for the current year, as to which no doubt exists. The facts as to a second payment will be known, in all probability, before the next meeting of the Board, when action, if any is needed, can be taken.

I can not leave this portion of my report without reference to another proposition which will be made as to the use of some portion of this new endowment. It is stimulated by the fact, which for years has been mournfully apparent, that there is very little demand for agricultural education of a high and thorough character, such as this institution has hitherto provided. Various reasons have been offered to explain this condition of things, but the real one is not far to seek. It is that there is no demand for farmers who have been thoroughly educated in agriculture. The proof is that such men do not command wages commensurate with their worth or such as are readily given to persons fairly trained in other technical pursuits, as chemists, machinists, electricians, railroad builders, etc.

It is the fact that among the 175 persons who have applied for admission at the present term not one has asked for the full agricultural course, and only some ten or twelve for the farmers' short course. All being anxious to meet the agricultural community on some plane, it will be proposed to arrange what may perhaps be termed an Agricultural Preparatory Course, which may be thus outlined: To take boys at the age fixed by law, 15 or more, expecting of them no more preparation than that afforded by the common schools, as in the present preparatory class. To give them a course covering two years, eliminating all language but English, and all mathematics above arithmetic. To include in this course chemistry, physics, botany, physiology, commercial arithmetic, book-keeping, the elements of agriculture, the elements of veterinary science, and probably English rhetoric, though this will be found as unpopular as mathematics. There would probably be some work upon the soil, and some in the shop. These subjects taught, all in the most elementary way, for an average of two terms each, would occupy two years of time. I have no doubt that a considerable number of students would offer themselves for such a course. It is thought that it would lead to higher and more extended courses of study.

I now turn to matters pertaining more definitely to the current affairs of the University.

#### INSTRUCTORS.

Pursuant to your instructions as to securing the detail of a military officer to succeed Lieut. Hoppin, I visited at Fort Hamilton and Fort Monroe several officers whose names had been given me by the Adjutant General of the Army, and finally arranged with First Lieut. E. R. Hills, of the 5th Artillery, to accept the detail. This selection was highly approved by General Schofield, and by the Adjutant General, and the order was promptly issued, sending Lieutenant Hills to this post. The appointment has every promise of being satisfactory.

Mr. Frank F. Fredericks, of Boston, has accepted the appointment of professor of industrial art at a salary of \$1,600 per annum and has entered upon his duty. He is a recent graduate of the Massachusetts Normal Art School, and was selected for me by President Bartlett as a person specially adapted for the kind of work which is needed at this institution.

Under the authority given the Regent to fill vacancies not filled at the June meeting, I have, subject to your approval, reappointed Miss Clara Maud Kimball, as instructor in music, whose appointment then was simply overlooked, and have appointed Miss Edith A. Shattuck as assistant in drawing. Miss Kimball asks that the compensation which she receives directly from the University should be increased, and I think her request is reasonable and should be complied with. I have to ask that Miss Shattuck's salary be fixed at \$40 per month. She is one of our own students, and well qualified for her work.

In several instances the classes are very full, and in practical or laboratory work there is need of more personal assistance than the instructor can give. In the freshmen class in chemistry, for example, ninety beginners go into the laboratory after the lecture or recitation for an hour's laboratory practice. They are all new to the work, and much personal labor is needed. In some cases this has been met by the employment of student assistants, with quite satisfactory results. The same sort of aid is useful in the physical laboratory, in the drawing rooms, and sometimes in field practice of engineers. It can not always be foreseen, as it is not always easy to predict the numbers that will join classes. Competent students are usually willing to do this work for a small compensation, their chief recompense coming from the practice and instruction they themselves gain. It would be serviceable if the Regent might have authority to employ students in this manner within reasonable limits, as necessities may arise.

#### THE MACHINE SHOP.

The movement of the machine shop into the upper story is nearly completed. Some more work has been done than was contemplated in the proposition made at the last meeting, particularly in lowering the floor of the old platform, which seemed desirable, and to be done, if done at all, at the time when the moving was going forward. About \$800 will be required to complete the changes in the lower room. This accords closely with the original estimate. If possible, it would be well to have this sum authorized, so that the work could go forward as it should be found convenient.

A matter which seems to be more important, is found in the condition of the coal and iron sheds, which are so dilapidated as to be an absolute discredit to the University, particularly observable because they stand adjacent to the horse railway. I have requested Professor Woods to prepare plans and estimates for new sheds for the mechanical department, to be 20 feet wide and 85 feet long; to contain place for cinders, for coal, for stores, and for a water closet; to be built of brick, with walls 10 feet high, and to extend from the west line of the new boiler house to about the middle of the old brick blacksmith shop. The estimate for the building is \$750. If the two can not now be provided for I think the shop can wait for the shed.

The new boiler is set and nearly ready for use.

#### THE LIBRARY SHELVING

is in place, complete, except the iron railing, which will be put up during the term, at the convenience of the shops. The work when done will probably have cost about \$100 less than the sum assigned.

The repairs in University Hall and the Chemical Laboratory have absorbed more than was expected, and the assignment has been exceeded by about \$150. The plaster under the central stairs at University Hall owing to the constant vibration from much passing, has continually fallen, and been often replaced. For this reason the plaster under the upper flight, having again come to repair, has been entirely removed, and replaced with ceiling, at a cost of \$35.00. The plaster still falls from the middle stairway, and the change should be completed. For this purpose, and for the overdraft already made, I ask that \$200 be assigned from the state appropriation for buildings and grounds.

#### THE HALF-WAY HOUSE.

The electric railway company has found it necessary to remove the half-way house in order to make connection between its lines by a curve. The building has been carefully taken apart by the builder, and is now

stored in the yard at the carpenter shop. I venture the hope that it will not be again needed, and, if the new road is operated as frequently as is proposed, the need for it will hardly be apparent.

THE OLD DORMITORY,

a small wooden building near the mechanical shop, once a stable, afterwards a shop, then a dwelling, has been used to rent for students' rooms. It is much out of repair, and would require considerable outlay to make it reasonably habitable. Believing that it is not worth the expense of refitting, I have asked the Business Agent to ascertain whether, if offered for sale, a reasonable price could be obtained for it. He informs me that he has an offer of \$200, cash, for the house and shed, to be immediately removed. I recommend that the offer be accepted, and the house sold.

THE MINNESOTA LANDS.

During the vacation I visited the University lands in Pope county, Minnesota, and made a careful inspection thereof, examining definitely each forty-acre tract. My illness since then has prevented a meeting of the committee to which that subject is referred, and the getting out of a revised price-list, offering the lands, as was ordered at the last meeting of the Board. Several parties are waiting for the lands. Too much is already in occupation, covered with grain, a practice which must be strictly forbidden and prevented. This matter will receive attention at the earliest practicable moment.

THE FARM REPORT.

I present herewith the quarterly report of the professor of agriculture:

UNIVERSITY OF ILLINOIS, September 8, 1890.

*Dr. S. H. Peabody, Regent,*

DEAR SIR: The financial operations of the University farms, during the three months ending September 1st, have been as follows:

Receipts.....	\$1,017 00
Expenses.....	885 61

The receipts may be classified thus: Cattle, \$295.47; hogs, \$132.50; oats, \$399.73; hay, \$45.47; wheat, \$18.72; corn, \$18.30; pasture, \$30.75; labor of teams for Experiment Station, \$57.81; miscellaneous, \$18.25.

The expenses were for following purposes: Labor, \$617.61; cattle, \$105.57; harness, \$44.10; scales and repairs, \$50.71; stallion service, \$40; miscellaneous, \$27.62.

We have harvested and threshed about 1,600 bushels of oats, the yield and weight per bushel having been lessened by the hot, dry weather at time of ripening, and have put up about 150 tons of hay in good condition. The dry weather has injured the pasturage, and is causing some inconvenience on the experiment farm in the water supply. The corn crop promises a satisfactory yield. The live stock is in good health and condition, with few exceptions.

Respectfully submitted,

G. E. MORROW,

*Professor of Agriculture.*

THE EXPERIMENT STATION.

The usual quarterly report of the Board of Direction of the Experiment Station is presented, with estimates and recommendations for your concurrence :

*To the Regent of the University.*

SIR: The Board of Direction of the Agricultural Experiment Station of the University of Illinois presents these papers:

Paper A is a list of vouchers, No. 676 to 764, inclusive, for audit.

Paper B is a statement of the Station expenditures for the quarter ending June 30, 1890.

Paper C is a statement of the Station expenditures for the year ending June 30, 1890.

Paper D is a statement of the appropriations, expenditures and balances for the quarter ending September 30, 1890.

Paper E is a statement of appropriations asked for the purpose of carrying on the work of the Station for the quarter ending December 31, 1890.

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

1. To determine the effect upon the rising of the cream of adding water to fresh milk.
2. In propagating apple trees, to compare the methods by whole and by piece roots.

PAPER C—STATEMENT OF EXPENDITURES FOR THE YEAR ENDING JUNE 30, 1890.

Buildings and repairs.....	\$54 91
Board expense.....	78 41
Books and publications.....	443 78
Botanical apparatus and supplies.....	135 72
Bulletins and report.....	1,251 63
Chemical apparatus and supplies.....	359 99
Fertilizers.....	21 65
Fuel and lights.....	363 24
Incidentals.....	41 78
Meteorological apparatus.....	7 15
Printing, stationery, and postage....	86 88
Salaries.....	7,370 00
Seeds and trees.....	109 59
Tools and supplies.....	361 16
Wages and teams.....	3,822 78
<i>Sundry—</i>	
Association American Agricultural Colleges and Experiment Stations, membership fee and expenses of delegate.....	46 50
Biology of ensilage.....	4 30
Canada thistle experiment [Mattoon].....	4 14
Corn experiment [Flora].....	1 50
Dairying experiments.....	319 47
Investigation of cattle disease.....	12 00
Tree protection experiment.....	5 42
Wheat experiments [Flora, Odin, and Farina].....	98 00
Total.....	\$15,000 00

PAPER E—ESTIMATES.

<i>For the quarter ending September 30, 1890.</i>	
Bulletins.....	\$10 00
Wheat experiments, Flora, Odin, Nashville, and Belleville.....	40 00
Total.....	\$50 00

## PAPER E—ESTIMATES—Concluded.

<i>For quarter ending December 31, 1890.</i>	
Buildings and repairs.....	\$25 00
Board expense.....	40 00
Books and periodicals.....	200 00
Botanical apparatus.....	10 00
Bulletins.....	300 00
Chemical apparatus.....	50 00
Fuel and lights.....	100 00
Incidentals.....	25 00
Printing, stationery, and postage.....	25 00
Salaries.....	2,000 00
Seeds and trees.....	15 00
Tools and supplies.....	50 00
Wagons and teams.....	825 00
<i>Sundry—</i>	
Corn and wheat experiments away from the Station.....	25 00
Dairying experiments.....	50 00
Exhibit at Peoria.....	50 00
Total.....	\$3,750 00

SELIM H. PEABODY, *President Board of Direction.*

## THE LIBRARY.

The report of the standing Committee on the Library, of their expenditures for the year ending September 1st, is presented. I have to request that the expenditure of the state appropriation for books and publications for the year 1890-91 be referred to this committee, with power to act, and instructions to report.

## STATEMENT OF STATE APPROPRIATION FOR BOOKS AND PUBLICATIONS FOR THE TWELVE MONTHS ENDING SEPTEMBER 1, 1890.

1889.		
September 1st, balance.....		\$1,000 00
Warrant No. 133—School of Mines Quarterly, 1890.....	\$2 00	
" 211—Champaign County Gazette, binding.....	2 00	
" 242—A. C. McClurg & Co., books.....	142 22	
" 241—The Forum Pub. Company, subscriptions for 1889.....	2 00	
" 262—D. Appleton & Co., books.....	36 00	
" 263—O. Stone, subscription.....	2 00	
" 264—H. W. Smyth subscription.....	2 00	
" 311—Studies in History and Political Science, 1889.....	3 00	
" 367—A. C. McClurg & Co., books.....	54 33	
" 368—Kenyon News Company, periodicals, 1890.....	206 75	
" 386—Carl Schoenhof, books.....	3 65	
" 456—Studies in History and Political Science, 1890.....	3 00	
" 457—McDonnell Bros., books.....	42 50	
" 466—F. L. Stebbins, books.....	12 00	
" 470—Kenyon News Company, subscriptions, 1890.....	3 45	
" 548—U. S. Patent Office, binding.....	31 20	
" 549—Franklin Institute, index.....	5 00	
" 550—W. C. Pratt, book.....	5 00	
" 567—Brown & Co., index.....	5 50	
" 572—American Express Company, charges.....	2 95	
" 619—Fergus Printing Company, book.....	4 50	
" 638—Society Political Publication, books.....	3 87	
" 639—McDonnell Bros., books.....	5 00	
" 640—C. W. Bardeen, books.....	5 00	
" 641—Publishers' Weekly, books.....	10 00	
" 642—A. S. Clark, periodicals.....	2 83	
" 699—State of Ohio, book.....	1 60	
" 700—N. Murray, book.....	1 00	
" 701—D. Appleton & Co., book.....	6 00	
" 712—Carl Schoenhof, books.....	60 84	
" 703—Gustav E. Stechert, books.....	79 81	
" 704—A. C. McClurg & Co., books.....	101 37	
" 731—American Society Civil Engineers, books.....	63 00	
" 732—McDonnell Bros., books.....	16 00	
" 733—American Shorthorn Breeders' Association, books.....	11 75	
" 761—McDonnell Bros., books.....	5 00	
" 831—Gustav E. Stechert, books.....	55 88	
		\$1,000 00

S. W. SHATTUCK, *Business Agent.*

## APPROPRIATIONS.

Appropriations for the following purposes are asked:

From current funds, for—		
Settees for one room .....	\$60 00	
Two teachers' desks .....	35 00	
Drawing desks for projection drawing .....	50 00	
Drawing desks for architecture .....	45 00	
Chairs .....	30 00	
New curtains for chapel .....	60 00	
		\$280 00
From state appropriations for apparatus and materials, for—		
Microscopes for botanical work .....	\$200 00	
Professor Ricker's collection of architectural drawings .....	100 00	
Models and casts for drawing room .....	30 00	
Band instruments and music .....	75 00	
Current expenses physical laboratory .....	50 00	
		\$455 00
From state appropriations for cabinets, for—		
Current expenses zoological laboratory .....	\$50 00	
Storage cases, same .....	50 00	
		\$100 00

The usual quarterly assignment of state appropriation for the State Laboratory of Natural History is desired.

The executive committee of the Association of American Agricultural Colleges and Experiment Stations asks of this institution \$25.00 toward defraying its expenses at Washington during the pendency of the Morrill college aid bill, and in forwarding action of the departments thereupon. In view of the very successful outcome of its labors, it hardly seems that this item can be refused.

All which is respectfully submitted.

SELIM H. PEABODY, *Regent*.

The report from the farms was referred to the Farm Committee.

The vouchers presented by the Board of Direction and the report of its expenditures for the year ending June 30, 1890, were referred to the Finance Committee.

On motion of Mr. Cobb, appropriations of Station funds were made, as asked in Paper E in the report from the Experiment Station, and authority was given the Board of Direction to undertake new experiments, as desired.

On motion of Mr. Cobb, it was voted that Miss Maud Kimball be paid by the University for her services as instructor in music \$25.00 per month, for 10 months.

On motion of Mr. Harker, it was voted to appoint Miss Edith A. Shattuck as assistant in drawing, at \$40.00 per month for 10 months.

On motion of Mr. Bennett, the Regent was given authority to employ students as assistants so far as may be needed, at an expense of not to exceed \$200.00 for this fall term.

On motion of Mr. Bennett, \$750.00 was appropriated to be expended by the Regent and the Building Committee in the construction of coal and iron sheds for the mechanical department.



On motion of Mr. Cobb, \$200.00 was appropriated from the state appropriation for buildings and grounds to meet expenses incurred in repairs on the Chemical Laboratory and the ceiling under the stairways of University Hall, and to make further repairs needed upon the ceiling.

On motion of Mr. Harker, there was appropriated:

<b>From current funds, for—</b>	
Settees for one room .....	\$60 00
Two teachers' desks .....	35 00
Drawing desks for projection drawing .....	50 00
Drawing desks for architecture .....	45 00
Chairs .....	20 00
New curtains for chapel .....	60 00
	<b>\$280 00</b>

On motion of Mr. Harker, there was appropriated:

<b>From the state appropriation for apparatus and material, for—</b>	
Microscopes for botanical work .....	\$200 00
Collection of architectural drawings .....	100 00
Models and casts for art department .....	30 00
Band instruments and music .....	75 00
Current expenses of physical laboratory .....	50 00
	<b>\$455 00</b>

On motion of Mr. Cobb, there was appropriated:

<b>From the state appropriation for cabinets, for—</b>	
Current expenses of zoological laboratory .....	\$50 00
Storage cases, same .....	50 00
	<b>\$100 00</b>

The following appropriations were made of funds of the State Laboratory of Natural History for the quarter beginning October 1, 1890, on motion of Mr. Cobb:

For field work, office and incidental expenses .....	\$250 00
For salaries and assistance .....	750 00
For improvement of the library .....	125 00
	<b>\$1,125 00</b>

The sum of \$25.00 was appropriated towards paying the expenses of the executive committee of the Association of American Agricultural Colleges and Experiment Stations.

The Regent's bill for traveling expenses, \$123.31, was ordered paid from current funds.

The report of the Committee on Library [see page 27] was approved.

It was voted on motion of Mr. Cobb that the Library Committee be authorized to expend the \$1,000.00 of the state appropriation for the library.

On recommendation of the Farm Committee, the farm report was approved. [See page 25.]

It was voted to appoint Miss Grace Peabody the Regent's private secretary, with a salary of \$300.00 per annum.

The Board then adjourned to meet at the Doane House, in Champaign, at 7:30 o'clock p. m.

## EVENING SESSION.

The Board met pursuant to adjournment, the same members being present as in the afternoon.

The Treasurer, Mr. John W. Bunn, presented his report, which was referred to the Finance Committee:

## JOHN W. BUNN, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS,

1890.		Dr.			
June	10	To balance .....			\$9,535 79
	16	" interest on Morgan county bonds.....		\$1,400 00	
		" " Urbana school .....		577 50	
		" " Montgomery county school bonds.....		780 00	
July	1	" " Champaign county bonds.....		\$3,600 00	2,757 50
		" " Pike county .....		2,100 00	
		" " Sangamon county " .....		880 00	
		" " Chic go water " .....		875 00	
		" " Macoupin county " .....		660 00	
		" " Pittsfield school " .....		630 00	
		" " Litchfield school " .....		440 00	
		" " Montgomery county school bonds.....		260 00	
		" " Christian .....		180 00	
		" " Champaign " " .....		160 00	
		" " Sangamon " " .....		35 00	
		" " " " bonds.....		30 00	
		" " Kankakee " " .....		157 30	
		" " " " " " .....		1,500 00	
	8	" " amount received from state for taxes on lands in Minnesota.....		\$1,545 05	11,507 30
		" " amount received from state, buildings and grounds....		2,500 00	900 00
		" " " " laboratories.....		1,500 00	
		" " " " mech'l and arch'l shops...		1,500 00	
		" " " " books and publications...		1,000 00	
		" " " " expenses of instruction...		20,000 00	
	12	" " " " for Lab'r'y of Nat. History:			28,045 05.
		" " " " on account salaries and assistance....		\$3,000 00	
		" " " " field work, office and incidental expenses.....		1,000 00	
		" " amount received on account libraries .....		500 00	
	23	" " " " from architectural department.		\$6 90	4,500 00
		" " " " fuel and lights.....		63 20	
Aug.	1	" interest on land contract 22, H. C. Kludas.....		\$124 95	70 10
		" " " " 26, H. A. Greenwood, assignee .....		14 00	
		" " " " 47, M. Hubka.....		4 25	
		" " Champaign school bonds.....		\$900 00	143 20
		" " Morgan county school bonds.....		600 00	
		" " Montgomery county school bond.....		90 00	
	20	" " " " " " .....			1,590 00
	31	" " amount received on account buildings and grounds....		\$33 00	84 00
		" " " " fuel and lights.....		1 84	
		" " " " Minnesota lands.....		46 00	
		" " " " mechanic l department..		188 55	
		" " " " architectural .....		1,089 59	
		" " " " agricultural " " .....		1,021 75	
		" " " " horticultural " " .....		80 55	
		" " " " laboratories.....		524 32	

Treasurer's Report—*Concluded.*

		<i>Dr.</i>			
Aug.	31	To amount received on account incidentals.....	\$6 00		
		" " " music fees .....	171 00		
		" " " Griggs farm.....	400 00		
		" " " University students' fees.....	504 34		
		" " " preparatory year.....	77 50		
				\$4,144 44	
				\$63,277 38	
		<i>Cr.</i>			
1890.					
Aug.	30	By amount paid on account Board expense.....	\$96 27		
		" " " salaries.....	9,886 35		
		" " " buildings and grounds.....	195 24		
		" " " fuel and lights .....	505 36		
		" " " stationery and printing.....	829 40		
		" " " Minnesota lands.....	10 00		
		" " " mechanical department.....	274 05		
		" " " architectural .....	1,107 86		
		" " " agricultural .....	885 61		
		" " " horticultural .....	95 73		
		" " " military .....	1 90		
		" " " laboratories.....	647 01		
		" " " library and apparatus.....	26 87		
		" " " incidental expense.....	135 66		
				\$14,697 35	
		" " " furniture and fixtures.....	\$7 05		
		" " " water supply.....	100 00		
		" " " Military Hall.....	487 11		
		" " " farm barn.....	2 64		
		" " " music fees .....	171 00		
		" " " commencement.....	199 73		
		" " " moving machine shop .....	1,337 07		
		" " " heating.....	365 57		
		" " " Griggs farm.....	4 00		
				2,674 17	
		State appropriations—			
B.		amount paid on account taxes on lands.....	\$1,545 05		
		" " " building and grounds.....	922 44		
		" " " mechanical and arch'l shops..	380 00		
		" " " books and publications.....	60 88		
		" " " cabinets.....	9 47		
		" " " apparatus and material.....	246 04		
		" " " new boiler machine shop.....	40 32		
		" " " State Laboratory of Natural			
		History.....	1,464 56		
				4,668 76	
		Balance.....		41,237 10	
				\$63,277 38	

Urbana, September, 1890.

JOHN W. BUNN, *Treasurer.*

The Board then proceeded to the discussion of that part of the Regent's report relating to the uses to be made of the money to be received from the Morrill college aid act.

On motion of Mr. Cobb, the general policy for the administration of these funds, outlined by the Regent, was approved.

The propositions in the following paragraphs, numbered from 1 to 8, were then discussed and severally approved to go into effect as soon as the receipt of the expected funds would warrant:

1. It was voted that of the amounts paid Professors Burrill and Morrow from Experiment Station funds, \$300.00, should hereafter be paid each from the University funds; and that \$500.00 of the salary of the Secretary, W. L. Pillsbury, should be paid from the University funds.

2. It was voted that the vacant professorship of mining engineering should be filled.

3. On motion of Mr. Cobb, it was voted that another professorship be established in the chemical department.

4. On motion of Mr. Harker, it was voted that a professorship of psychology be established.

5. On motion of Mr. Bennett, it was voted to establish a professorship of Greek.

6. On motion of Mr. Bennett, it was voted to establish a professorship of French.

7. On motion of Mr. Harker, it was voted to make the salary of the Business Agent, Professor Shattuck, \$50 a month.

8. It was voted to employ an instructor in physical culture for the rest of the year, the amount to be paid to be limited to \$1,000.

On motion of Mr. Harker, the Executive Committee, the Committee on Instruction, and the Regent were empowered and instructed to secure, as soon as practicable, suitable men to fill the places required to be filled by the motions just passed.

On motion of Mr. Bennett, the Regent was directed to get the assent of the Governor, as required by the Morrill college aid act, and to do all other things found necessary to secure for the University the funds accruing to it under said act.

On motion of Mr. Bennett, it was voted to appoint a committee of five on legislative estimates. The President appointed on the committee the Regent and Messrs. Bennett, Cobb, Bullard, and Harker.

The matter of an agricultural course, below the college course in agriculture, was referred to the Committee on Instruction and the Regent, who were instructed to report at the next meeting.

The report of the Business Agent, Professor Shattuck, was received, and paper C with the vouchers was referred to the Committee on Finance.

#### REPORT OF BUSINESS AGENT.

SEPTEMBER 23, 1890.

*Alexander McLean, President Board Trustees, University of Illinois,*

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

Paper A—The current appropriations and receipts for the six months ending September 1, 1890.

Paper B—The condition of the state appropriations September 1, 1890.

Paper C—A list of vouchers presented for audit, being numbers 701 to 925 inclusive.

Paper D—An estimate of current receipts and expenses of the University for the six months ending March 1, 1891.

Paper E—An estimate of current receipts and expenses for the twelve months ending September 1, 1891.

Paper F—A statement of the Griggs farm rent.

Paper G—A bill of \$389.37 presented by John W. Bunn, Treasurer, for premiums paid for bonds, which the Board is requested to allow.

I have to report also that I have propositions from several parties who wish to rent the Griggs farm at \$4 per acre.

Respectfully submitted,

S. W. SHATTUCK, *Business Agent.*

## PAPER A—CURRENT APPROPRIATIONS.

March 11, 1890, and June 10, 1890.	Appropriated.	Receipts also approp'd.	Expended	Balance.
Board expense.....	\$300 00	.....	\$171 47	\$128 53
Salaries for instruction.....	20,915 00	.....	15,564 43	916 77
"    services.....	1,600 00	.....	4,433 80	329 10
Buildings and grounds.....	400 00	\$60 00	350 97	109 03
Fuel and lights.....	1,500 00	133 67	995 85	637 82
Stationery and printing.....	1,300 00	.....	1,127 40	172 60
Mechanical department.....	200 00	402 56	604 17	.....
Architectural.....	200 00	1,816 50	1,890 64	126 86
Agricultural.....	200 00	1,765 08	1,412 47	552 61
Horticultural.....	200 00	234 05	185 19	248 86
Military.....	169 00	32 00	198 66	2 34
Laboratories.....	305 00	979 03	1,283 42	61
Library and apparatus.....	50 00	.....	45 34	4 66
Incidentals.....	231 60	6 00	217 74	19 86
<i>Sundries.</i>				
Furniture and fixtures.....	100 00	.....	66 17	34 83
Water supply.....	200 00	.....	200 00	.....
Military Hall.....	2,445 06	.....	2,315 35	129 71
Farm barn.....	172 33	.....	2 64	169 69
Minnesota lands.....	200 00	110 00	81 47	228 53
Preparatory year fees.....	.....	495 00	624 96	.....
University students' fees.....	.....	3,413 34	.....	3,413 34
Music fees.....	.....	311 60	311 60	.....
New engine.....	96 15	.....	.....	96 15
Commencement expenses.....	200 00	.....	199 73	27
Griggs farm.....	.....	400 00	4 00	396 00
Moving machine shop.....	2,100 00	.....	1,337 07	762 93
Moving guns.....	25 00	.....	.....	25 00
Heating apparatus.....	430 00	.....	365 57	64 43

## PAPER B—STATE APPROPRIATIONS.

	Appropriated.	Received.	Expended.	Balance.
Taxes on lands ½ per annum.....	\$3,400 00	\$3,088 67	\$3,088 67	.....
Buildings and grounds ½ per annum.....	5,000 00	5,000 00	3,422 44	\$1,577 56
Mechanical and arch'l shops ½ per annum.....	3,000 00	3,000 00	1,700 00	1,300 00
Books and publications ½ per annum.....	2,000 00	2,000 00	1,000 00	1,000 00
Cabinets ½ per annum.....	1,000 00	500 00	137 15	362 85
Expenses of instruction ½ per annum.....	40,000 00	40,000 00	20,000 00	20,000 00
Apparatus and material ½ per annum.....	3,000 00	3,000 00	1,700 18	1,299 82
Metallurgical laboratory ½ per annum.....	4,000 00	4,000 00	2,626 98	1,373 02
Military Hall.....	10,000 00	10,000 00	10,000 00	.....
New boiler for machine shops.....	1,250 00	1,250 00	40 32	1,209 68
	\$72,650 00	\$71,838 67	\$43,715 74	\$28,122 93
Illinois State Laboratory Natural History..	15,123 62	14,373 62	8,157 56	6,216 06

## PAPER F—STATEMENT OF GRIGGS FARM RENT.

1890.		
Feb. 1, balance of rent due.....		\$700 00
Aug. 2, received 1,104 bushels corn at 25 cents.....	\$276 00	
Sept. 5, received cash.....	20 00	
Sept. 6, received in 100 rods fencing.....	100 44	
Sept. 6, received in grass seed used.....	9 65	
Sept. 6, received cash.....	26 72	
Sept. 6, balance of rent due.....	267 19	
		700 00

Under the direction of the Board to secure the rent, I have taken two notes of Mr. Darby, one to cover the above balance, one to cover the rent, \$640 00, due Feb. 1, 1891; both notes are due Feb. 1, 1891, and secured by a chattel mortgage on one hundred acres of good corn, which is to be cribbed on the place.

S. W. SHATTUCK, *Business Agent.*

On motion of Mr. Bullard, the report on the Griggs farm was approved.

Mr Bunn's bill for \$389.37, premiums paid on bonds, was allowed and ordered paid on motion of Mr. Edwards.

On motion of Mr. Edwards, appropriations for the six months from September 1, 1890, as recommended by the Business Agent in his Paper E, were made for—

Board expenses.....	\$300 00
Salaries for instruction.....	23,820 00
Salaries for services.....	2,369 00
Buildings and grounds.....	50 00
Fuel and lights.....	2,500 00
Stationery and printing.....	60 00
Mechanical department.....	200 00
Architectural.....	200 00
Agricultural.....	200 00
Horticultural.....	100 00
Military.....	100 00
Laboratories.....	200 00
Library and apparatus.....	50 00
Incidentals.....	200 00
Furniture and fixtures.....	100 00
Water supply.....	200 00
New engine, balance.....	96 15
Military Hall, balance.....	129 71
Moving machine shop, balance.....	762 93
Moving guns, balance.....	25 00
Heating apparatus, balance.....	64 43
	\$32,258 22

The rental of the Griggs farm was referred to the Farm Committee and the Business Agent with power to act.

On motion of Mr. Bullard, the Business Agent was authorized to sell the building on the southeast corner of Springfield avenue and Wright street for \$200.00, cash.

On motion of Mr. Bennett, the chairman of the Committee on Buildings and Grounds was instructed to see that the shavings, etc., about the carpenter's shop be removed.

REPORT OF BUILDING COMMITTEE.

The special building committee, which has had charge of the erection of the new military building, made its final report as follows:

*To the Trustees of the University of Illinois.*

GENTLEMEN: Your Building Committee begs leave to report that the building of Military Hall has been fully completed as directed by you, and that the total cost amounts to \$15,220.29.

The Hall was formally opened commencement day, June 11, 1890.

Respectfully submitted,

S. A. BULLARD,	} <i>Building Committee.</i>
G. R. SHAWHAN,	
O. A. HARKER,	
S. H. PEABODY,	
ALEX. MCLEAN,	

On motion of Mr. Bennett, the report was received and approved for record; and the Board passed these resolutions:

*Resolved*, That we take great pleasure in making hereby formal acknowledgment of our high appreciation of the ability and faithfulness shown by the Building Committee in the discharge of its duties; and

*Resolved*, That we heartily congratulate the Committee upon the felicitous outcome of its labors.

The Finance Committee made the following reports, each of which was received and approved for record:

URBANA, September 23, 1890.

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

GENTLEMEN: Your Finance Committee has examined the vouchers of the University numbered from 701 to 925, both inclusive, also vouchers of the Experiment Station No. 677 to 764, both inclusive, and finds them correct.

Respectfully submitted,

F. M. MCKAY,	} <i>Finance Committee.</i>
S. A. BULLARD,	

URBANA, September 23, 1890.

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

GENTLEMEN: Your Finance Committee has examined the quarterly report of John W. Bunn, Treasurer of the University, and finds the same to be correct, and that there is cash in the treasury to the amount of \$41,237.10.

Respectfully submitted,

F. M. MCKAY,	} <i>Finance Committee.</i>
S. A. BULLARD,	

URBANA, September 23, 1890.

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

GENTLEMEN: Your Committee on Finance reports that it has examined and compared the books of the Treasurer with warrants No. 449 to 736

inclusive, drawn upon him for the year ending June 30, 1890, against the funds belonging to the Experiment Station, amounting to \$15,000.00, and finds them correct as presented.

Respectfully submitted,

F. M. MCKAY, }  
S. A. BULLARD, } *Finance Committee.*

URBANA, September 23, 1890.

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

GENTLEMEN: Your Finance Committee, to whom was referred the statement of the receipts and expenditures of the Agricultural Experiment Station for the year ending June 30, 1890, reports that it has examined the same and finds it correct, and that the receipts have been \$15,000 and the expenditures \$15,000.

Respectfully submitted,

F. M. MCKAY, }  
S. A. BULLARD, } *Finance Committee.*

On motion of Mr. Harker, the Regent and the Secretary were instructed to give the Attorney General all needed assistance in the way of furnishing material from the University and Faculty files and records for the Foster North case now pending before the supreme court.

Adjourned.

W. L. PILLSBURY,  
*Secretary.*

ALEXANDER McLEAN,  
*President.*



## MEETING OF DECEMBER 9, 1890.

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, Illinois, at 4:30 o'clock p. m., Tuesday, December 9, 1890. The members present were Messrs. Bennett, Bullard, Cobb, Harker, McLean and Shawhan; absent, Governor Fifer, and Messrs. Clemens, Edwards, Haskell and Millard.

The minutes of the last meeting were approved.

The Regent, Dr. Peabody, was asked to present his report.

## REGENT'S REPORT.

*To the Trustees of the University of Illinois.*

GENTLEMEN: I have again the privilege of reporting the increased growth and prosperity of the University. The attendance this term has reached the number of 481, being an increase over the total of last year. The increase is felt in the larger numbers in the library, in the chapel, in the shops, and in all classes.

Progress has been made in carrying into effect the plans approved by you at the last meeting. The joint committee, consisting of the Committee on Instruction and the Executive Committee, has made the following appointments, under the authority given for that purpose:

1. Professor Charles DeGarmo, of Normal, has been appointed professor of psychology. Professor DeGarmo is a gentleman of mature years and sound scholarship, widely and well known throughout the state. He has made preparation in this specialty in a prolonged study in Berlin and Heidelberg. His appointment has elicited many words of approval from leading educators.

2. Professor Samuel W. Parr, of Illinois College, has been appointed to the chair of analytical chemistry. Mr. Parr graduated with distinction several years since from our own chemical laboratory. He has made an excellent record as a successful and competent teacher of general and chemical science, and will prove a valuable acquisition where aid is much needed.

3. The demand for a professor of French has been met by the appointment of the Rev. M. R. Paradis, of Urbana. Mr. Paradis is of French parentage, educated in Montreal, and has taught the language in the College of Toronto. He is a scholar of liberal culture, speaking and writing both English and French with precision and purity. He is already well and favorably known in this community and in the University.

Professor Winchell sends to you his resignation, to take effect at the close of the present calendar year. He has been at the University only a short time, but his work has won general commendation. I regret to lose both his scholarship and his wise counsels in the affairs of the University. Having had notice of his intention in sufficient time for the purpose, and feeling that the position should be promptly filled, I have made special effort to secure a successor, and am now able to nominate for this place Professor Herbert J. Barton. Mr. Barton is a graduate of Dartmouth, of class of '76. He is well known as a thorough classical scholar. He is now principal of the high school connected with the Normal University, at Normal. I believe that I may safely present this as an entirely satisfactory solution of this problem, rather suddenly and unexpectedly presented.

For the chairs of mining engineering and Greek, I have yet nothing to recommend.

I am able to report as to the new appointments made before the opening of the present year's work, that they are in every instance proving satisfactory.

Under authority given at the last meeting, I have secured the services of Mr. Mauritz Schmidt as instructor in gymnastics for the remainder of the current year. Mr. Schmidt comes from the Normal Turner Gymnasium, in Milwaukee, being a regular graduate after a four years' course. When engaged, he was in the employment of the public schools of Chicago, and was named to us by the superintendent of physical culture in charge. He holds classes at such hours of the day, between 9 a. m. and 4 p. m., as are found to be best adapted to the needs of our complex program of recitations. As a partial recognition of the needs of physical culture for the women, classes are formed for them at stated hours in the week, when the gymnasium is open for their use only.

This use of the Military Hall has made it necessary to do certain things provisionally, which, it is hoped, will meet your approval. As the only way possible of warming the place in any degree, until steam heat can be introduced, two large soft coal stoves have been set up. They are not sufficient to warm the place, but will serve in mitigation of the cold. It has been found needful to employ a janitor for the entire day, to be in constant attendance, and to perform such service as may be required.

The Faculty has found it necessary to revise the rules relating to the gymnasium, to adjust them to the new order of things, and the revision is presented for your approval:

#### RULES FOR THE GYMNASIUM.

1. The gymnasium will be open at such times as the Faculty may direct.
2. No use may be made of the hall or of the apparatus for gymnastic purposes, exercise, or games, at times other than those assigned by the Faculty for such uses, unless by special permission previously obtained of the Regent.
3. The classes in the gymnasium will be under the charge of the instructor in gymnastics, subject to the supervision of the Regent.
4. No person other than the members of the classes will be permitted in the hall during class hours, excepting officers of the University or persons introduced by them.
5. Students excused from drill for physical disability will not be allowed to exercise in the gymnasium, except on special permission of the Regent.
6. All pupils must provide themselves with gymnasium slippers.
7. The use of tobacco in the hall is prohibited.
8. All injuries to apparatus, other than those arising from legitimate use, will be charged to the person or persons at whose hands they may occur.

9. The fee will be 50 cents per term, payable in advance.

Some farther arrangements for comfort and convenience are necessary to make this room reasonably serviceable as a gymnasium. These were provided for in the original plans, but have not yet been prepared. A low partition, say seven and a half feet high, may be set parallel to the south wall, and as far from that wall as the second mullion of the end windows. This, with suitable cross partitions, will provide a room 50 feet long for a dressing and wash room for men, a similar room for the guns, and a room in the middle, about 30 feet long, for a dressing room for women. Water should be introduced into the two dressing rooms. This is an easy matter, as there is now a water pipe within about 20 feet of the front center of the building. Outlet has also been provided at the same place. This partition will somewhat contract the floor space, but the uses referred to seem the more important: being low, and finished in the natural color of pine, it will not seriously affect the general lofty and broad appearance of the room.

This improvement will cost about \$400, and may be paid for out of the state appropriation for buildings and grounds.

In this connection I present a petition of the senior class for the use of the Military Hall during commencement week.

Also a petition of the Athletic Association, for leave to fence in and occupy exclusively a part of the north campus.

The changes in the machine shops are approaching completion, and appear to be kept well within the expense authorized. The coal and iron sheds are built and occupied. The expense has exceeded the appropriation by \$130.44. I have to ask that this expenditure be approved, and that an additional amount of \$70 be authorized for settings in the water closet. I hope that this may be permitted to be done forthwith, so that the unsightly wooden shell still remaining may at once be demolished, and the opening be closed, at least temporarily, by a fence. I trust that another season will see this improvement carried to the other end of the shop yard, with suitable provision for lumber sheds, etc.

I desire to ask your attention to the following subject: Some years since the Faculty recommended to the Trustees that the master's degree be given to certain students who had graduated, with certificates, in the early days of the University, before degrees were given. The intent of the Faculty was to recognize in this way, very common among colleges, the good work and growing reputation of the earlier graduates. The practice, judiciously administered, has many reasons in its favor.

The Trustees declined to approve this recommendation of the Faculty, on the ground that the conferring of such degrees was not authorized by the law of 1877, under which degrees are conferred. I venture to ask a reconsideration of this action, and of the question whether the conferring of degrees, upon the persons, and in the manner proposed, may not be both lawful and expedient.

The new appointments require the furnishing of two, and probably three more rooms with proper settees and teachers' desks, at a cost of about \$75 each. From current funds, \$225.

I have to ask the following from state appropriation for apparatus and material:

For 13 officers' swords and belts.....	\$115 00	
For apparatus for mechanical department.....	63 00	
For drawing boards and paper, professor of architecture.....	70 00	\$248 00
From current funds—		
For case for testing instruments, mechanical laboratory.....	\$25 00	
For case for musical instruments, chapel.....	25 00	\$50 00

I present the farm report for the current calendar year, as made by Professor Morrow:

## FARM REPORT.

UNIVERSITY, December 5, 1890.

*Dr. S. H. Peabody, Regent,*

SIR: The receipts and expenditures of the University farms, for the year ending December 1, 1890, were as follows:

Receipts for the year.....	\$2,814 19	
Expenditures.....	2,457 72	
Balance to credit of farms.....		\$356 47
Inventory saleable property, December 1, 1889.....	\$13,967 00	
Inventory saleable property, December 1, 1890.....	13,876 00	
Reduction during year.....		91 00
Balance in favor of farms for year.....		\$265 47

## FINANCIAL STATEMENT FOR 1890.

<i>Receipts.</i>		
Live stock—		
Cattle .....	\$843 77	
Hogs .....	520 85	
Milk and poultry .....	32 35	
		\$1,396 97
Field products—		
Hay.....	\$379 14	
Oats.....	404 88	
Corn.....	205 77	
Pasture.....	76 50	
Seeds.....	26 22	
		1,092 51
Labor .....		148 28
Rent.....		155 00
Miscellaneous .....		21 45
		\$2,814 19
<i>Expenses.</i>		
Labor .....		\$1,664 04
Live stock—		
Cattle .....	\$79 00	
Horses .....	119 00	
Hogs .....	80 40	
		278 40
Machinery and harness.....		184 25
Lumber, hardware and blacksmithing.....		162 48
Feed, salt and medicines.....		33 40
Seeds.....		31 33
Advertising.....		38 07
Miscellaneous.....		65 75
Total expense .....		\$2,457 72
Credit balance.....		356 47
Total expense and balance.....		\$2,814 19

Financial Statement for 1890—*Concluded.*

<i>Inventory, December 1, 1890.</i>		
Live stock—		
Horses, 12 @ \$140 00 .....	\$1,680 00	
Colts, 13 @ 75 00 .....	975 00	
Pony .....	40 00	
Pure bred cattle—		\$2,695 00
Shorthorns .....	66	
Herefords .....	9	
Holstein-Friesians .....	7	
Jerseys .....	3	
Grade cattle and steers .....	85, @ \$75 00 .....	\$6,375 00
	12, @ 15 00 .....	180 00
Hogs, 67 @ \$7.00 .....		6,555 00
Poultry .....		469 00
		15 00
Total live stock .....		\$9,734 00
Field products—		
Hay, 130 tons @ \$7.50 .....	\$975 00	
Corn, 2,500 bushels @ 45 cents .....	1,125 00	
Oats, 350 bushels @ 42 cents .....	147 00	
Clover seed, 17½ bushels @ \$4.00 .....	70 00	
Ensilage, fodder, and straw .....	250 00	
		2,567 00
Implements and machinery .....		1,400 00
Accounts and miscellaneous .....		175 00
Total inventory .....		\$13,876 00

That this showing is not more favorable is due in part to reduction of the oats and corn crops by drouth, but mainly to the continued depression in live stock, especially cattle. Sales have been made only at extraordinarily low prices. As a lot, the horses and cattle are better than ever before, but are valued lower than in any former year. Five years since a corresponding lot would have been valued at least \$5,000 higher. It was not thought advisable to purchase stock for feeding, hence both receipts and expenditures are less than in any former year.

Respectfully submitted,

G. E. MORROW, *Professor of Agriculture.*

I present the report of the Board of Direction of the Experiment Station, and ask that the recommendation be concurred in:

*To the Regent of the University.*

SIR: The Board of Direction of the Agricultural Experiment Station of the University of Illinois, presents these papers.

Paper A is a list of vouchers, numbers 765 to 825, inclusive, for audit.

Paper B is a statement of the Station expenditures for the quarter ending September 30, 1890.

Paper C is a statement of the appropriations, expenditures and balances for the quarter ending December 31, 1890.

Paper D is a statement of appropriations asked for the purpose of carrying on the work of the Station for the current quarter, and for the quarter ending March 31, 1891.

## PAPER D—ESTIMATES.

<i>For the quarter ending December 31, 1890:</i>	
Dairying experiment.....	\$50 00
<i>For the quarter ending March 31, 1891:</i>	
Buildings and repairs.....	50 00
Board expense.....	40 00
Books and publications.....	50 00
Botanical apparatus, and supplies.....	10 00
Bulletin.....	500 00
Chemical apparatus, and supplies.....	50 00
Fertilizers.....	30 00
Fuel and lights.....	100 00
Incidentals.....	25 00
Printing, stationery, and postage.....	25 00
Salaries.....	1,725 00
Seeds and trees.....	55 00
Tools and supplies.....	60 00
Wages and teams.....	750 00
<i>Sundry experiments—</i>	
Dairying experiments.....	100 00
Wheat experiments.....	45 00
Total.....	\$3,615 00

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

1. To make a chemical analysis of two feeds, germ meal and oat dust feed.
2. Apple trees, testing the effects of pruning.
3. Plants, testing the effects of self and cross fertilization.
4. Soil and fertilizers, tests of, with potted plants.
5. Wheat, tests of varieties.

The Board has appointed Professor S. A. Forbes to be consulting entomologist of the Station, without salary, and asks that the Board of Trustees confirm the appointment.

The Board of Trustees is also requested to give the President of the Board of Direction authority to appoint a second assistant in the chemical laboratory of the Station when a suitable person for the place has been found, salary not to exceed \$60 per month.

Respectfully submitted,

S. H. PEABODY, *President*.

I request that an assignment from state appropriation for buildings and grounds be made for current repairs and expenses, to the amount of \$250.

All of which is respectfully submitted.

SELIM H. PEABODY, *Regent*.

The committee to which was referred, with power to act, the appointment of professors, made the following report, which was confirmed on motion of Mr. Cobb:

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

GENTLEMEN: At the last meeting of the Board the matter of appointing professors, so far as has been recommended in the Regent's report and approved by the Board, was referred, with power to act, to a committee consisting of the Executive Committee, the Committee on Instruction, and the Regent.

A meeting of this committee was called and convened at the Doane House in Champaign, October 31, 1890. The members present were Messrs. McLean, Bennett, and the Regent. Those absent were Messrs. Cobb and Edwards.

The Regent named for the chair of psychology, Professor Charles DeGarmo, of Normal, Illinois. After consideration the nomination was approved, and Mr. DeGarmo was appointed professor of psychology, with a salary at the rate of \$2,000 per annum, to take effect January 1, 1891.

In like manner Professor Samuel W. Parr, of Jacksonville, Illinois, was recommended for a professorship in chemistry. This nomination was approved, and Mr. Parr was appointed accordingly, the division of labor between him and Professor Palmer, already in the service of the University in the department of chemistry, being left for subsequent arrangement. The appointment was ordered to take effect the first of January, 1891, the salary to be at the rate of \$1,800 per annum.

Whereupon the committee adjourned.

A meeting of the same committee was convened at the Grand Pacific Hotel in Chicago, November 28, 1890. Present, Messrs. McLean, Bennett, and Cobb, and the Regent. The Regent named the Rev. M. R. Paradis, of Urbana, to be professor of French. After consideration it was ordered that the nomination be approved, and that Mr. Paradis be appointed professor of French, with salary at the rate of \$1,800 per annum, the appointment to take effect the first of January, 1891.

Whereupon the committee adjourned.

Respectfully submitted,

EMORY COBB, CHARLES BENNETT, ALEXANDER MCLEAN, SELIM H. PEABODY,	} <i>Committee.</i>
---	---------------------

The Executive Committee made the following report:

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

GENTLEMEN: The Executive Committee of the Board of Trustees of the University of Illinois held a meeting at the Doane House in Champaign, Illinois, October 31, 1890. Present, Messrs. McLean and Bennett.

The Committee ordered that the University be represented at the approaching meeting of the Association of American Agricultural Colleges and Experiment Stations by the Regent, and the Experiment Station by Professor Burrill.

The Regent presented a communication as to the need of rebuilding the assaying furnaces in the basement of the Chemical Laboratory, showing also that the flues for said furnaces, as now constructed, are wholly inadequate for their purposes. He explained a plan for reconstructing the furnaces and flues against the south wall of the assaying room, the flues to be carried up against said wall to and out from the roof. The plan was approved, and the matter was referred to the Regent and the Committee on Buildings and Grounds, with power to make the improvement at an expense not to exceed two hundred and fifty dollars, to be paid from state appropriation for metallurgical laboratory.

Whereupon the committee adjourned.

Respectfully submitted,

ALEXANDER MCLEAN, CHARLES BENNETT,	} <i>Executive Committee.</i>
---------------------------------------	-------------------------------

The action of the Executive Committee was confirmed, on motion of Mr. Cobb.

The farm report was referred to the Farm Committee on motion of Mr. Bennett.

The report of the Director of the State Laboratory of Natural History was approved, and it was ordered that it be inserted in the biennial report of the Trustees, now printing.

The vouchers presented by the Board of Direction were referred to the Committee on Finance.

On motion of Mr. Bullard, it was voted that appropriations of Station funds for the use of the Station, be made as asked in the report of the Board of Direction.

It was also voted that authority be granted to undertake experiments, as asked in the same report.

The appointment of Professor S. A. Forbes, as consulting Entomologist of the Station, without salary, was confirmed on motion of Mr. Bennett.

The Board then adjourned to meet at the Doane House, in Champaign, at 7 o'clock p. m.

#### EVENING SESSION.

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

The Treasurer, Mr. J. W. Bunn, reported the payment of \$83.17 on purchase at tax sales of lands in Nebraska, sold by the University, but not yet fully paid for.

On motion of Mr. Cobb, it was voted that a warrant for the amount be drawn in favor of the Treasurer.

The Treasurer then presented the following report, which was referred to the Finance Committee:

#### JOHN W. BUNN, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

		Dr.		
1890.				
Sept.	22	To balance.....		\$41,237 10
		" interest on land contract, No. 37, W. T. Gore, assignee.....		262 50
Sept.	30	" amount received on acc't University students' fees...	\$3,532 50	
		" " " " preparatory year.....	540 00	
		" " " " buildings and grounds.....	225 00	
				4,297 50
Oct.	1	To interest on Montgomery county school bonds.....		56 00
Oct.	10	" " land contract, No. 15, P. A. Moore, assignee.....	\$96 00	
Oct.	15	" " No. 53, Frank Novotny, assignee.....	87 00	
				183 00
Nov.	1	To interest on Sangamon county school bonds.....		126 00
Nov.	29	" amount received on acc't buildings and grounds.....	12 00	
		" " " " mechanical department.....	460 55	
		" " " " architectural.....	810 59	
		" " " " agricultural.....	956 45	
		" " " " horticultural.....	66 12	
		" " " " laboratories.....	400 00	
		" " " " Minnesota lands.....	391 70	
		" " " " Griggs farm.....	100 00	
		" " " " gymnasium.....	26 00	
		" " " " University students' fees..	1,112 50	
		" " " " preparatory year.....	155 00	
				4,490 91
				<u>\$50,653 01</u>



Treasurer's Report—*Concluded.*

		<i>Cr.</i>			
1890.					
Nov.	29	By amount paid on account	board expense.....	\$119 80	
		" " " "	salaries.....	4,243 81	
		" " " "	buildings and grounds.....	163 11	
		" " " "	fuel and lights.....	841 56	
		" " " "	stationery and printing.....	417 65	
		" " " "	preparatory year.....	714 96	
		" " " "	Minnesota lands.....	60 76	
		" " " "	mechanical department.....	575 97	
		" " " "	architectural ".....	1,078 72	
		" " " "	agricultural ".....	595 40	
		" " " "	horticultural ".....	39 75	
		" " " "	military ".....	19 12	
		" " " "	laboratories.....	587 82	
		" " " "	library and apparatus.....	36 25	
		" " " "	incidental expenses.....	201 53	
					\$9,696 21
		By amount paid on account	furniture and fixtures.....	\$268 73	
		" " " "	water supply.....	100 00	
		" " " "	moving shop.....	446 45	
		" " " "	moving guns.....	10 42	
		" " " "	heating apparatus.....	63 40	
		" " " "	Military Hall.....	106 16	
		" " " "	coal and iron sheds.....	880 44	
		" " " "	gymnasium.....	76 15	
		" " " "	premium on bonds.....	389 37	
					2,341 12
		<i>State Appropriations.</i>			
		By amount paid on account	buildings and grounds.....	\$288 12	
		" " " "	mechanical & arch'l shops.....	196 04	
		" " " "	books and publications.....	281 20	
		" " " "	cabinets.....	111 86	
		" " " "	expenses of instruction.....	8,499 75	
		" " " "	apparatus and material.....	947 10	
		" " " "	machine shop boiler.....	1,144 16	
		" " " "	State Laboratory of Nat. Hist.....	1,151 00	
					12,619 23
		By balance.....			25,996 45
					\$50,653 01

Urbana, December 9, 1890.

JOHN W. BUNN, *Treasurer.*

The Farm Committee made the following report in regard to leasing the Griggs farm:

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

GENTLEMEN: Your committee has leased the land known as the Griggs farm to Charles Buhs, from March 1, 1891, to January 1, 1896, at a rental of \$640 a year, with equal payments to be made September 1st and January 1st of each year. The lease is on file in the Business Agent's office.

Respectfully submitted,

GEORGE R. SHAWHAN, } *Farm Committee.*  
EMORY COBB, }

The report of the Committee was approved.

On motion of Mr. Cobb, the Board passed the following resolution:

*Resolved,* That the Treasurer of the Board of Trustees of the University of Illinois is hereby authorized to receive, and receipt for all moneys,

and to endorse all orders, drafts, and checks due and payable to the said Board of Trustees, or to the said University of Illinois, and especially all drafts drawn by the Treasurer of the United States, payable to said Board of Trustees or to said University of Illinois, on account of the Agricultural Experiment Station of the said University; and also to receive and receipt for any and all moneys or drafts received by the Treasurer of the State of Illinois for the University of Illinois, under and by the provisions of an act of congress, approved August 30, 1890, passed for the benefit of the land grant colleges, founded under act of congress, 1862.

The special committee on legislation made the following report:

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

GENTLEMEN: Your committee on legislative appropriations begs leave to make the following report:

We have made a careful estimate of the income and the expenses of the University for the years 1891 and 1892, and the needs of the University for several special expenses, to be provided for by special appropriations as follows:

ESTIMATES FOR THE YEARS 1891-92, AND 1892-93.

<i>Expenditures, per annum—</i>			
Salaries for instruction.....		\$58,850 00	
Salaries for services.....	\$4,500 00		
Fuel and lights.....	4,000 00		
Stationery, printing, and postage.....	1,500 00		
Incidentals, including water.....	1,200 00		
Board expenses.....	600 00		
		11,800 00	
		\$70,650 00	
<i>Resources, per annum—</i>			
Interest on endowment.....	\$23,000 00		
Morrill aid law.....	16,000 00		
Students' fees.....	12,000 00		
Miscellaneous.....	1,000 00		
		52,000 00	
Deficit to be asked from state.....		\$18,650 00	\$20,000 00
Also the following items as heretofore allowed—			
For taxes on Minnesota lands, per annum.....		\$1,600 00	
“ repairs and improvements “.....		3,000 00	
“ apparatus and material “.....		1,500 00	
“ mechanical shops “.....		2,000 00	
“ books and periodicals “.....		1,500 00	
“ collections natural history “.....		1,000 00	
			10,600 00
Total per annum.....			\$30,600 00
For heating apparatus, Military Hall.....	\$4,500 00		
“ furniture.....	2,000 00		
“ rebuilding barn, burned.....	5,500 00		
		\$12,000 00	
For building natural science building.....		75,000 00	

The matter of a new building for biological museums and classes, estimated to cost \$75,000, was discussed at some length, but was referred by the committee to a full Board.

The following recommendations of the Director of the State Laboratory of Natural History are approved, and should be presented to the legislature:

For the two years ending June 30, 1893:

For field, office, and incidental expenses.....	\$1,500 00	per annum.
“ improvement of library.....	1,000 00	“
“ salaries and assistance.....	3,500 00	“
“ publication of bulletins.....	500 00	“
“ illustration of Entomological Report.....	250 00	“
Total.....	\$6,750 00	“

All of which is respectfully submitted.

S. H. PEABODY,	} Committee.
EMORY COBB,	
CHARLES BENNETT,	
S. A. BULLARD,	

On motion of Mr. Shawhan, the report was received.

On motion of Mr. Cobb, the committee was instructed to prepare a bill, to be introduced at the next session of the General Assembly, asking for appropriations as recommended by the report just received.

On motion of Mr. Cobb, it was voted that an appropriation of \$75,000 for a biological building be asked of the legislature in the same bill.

Professor Winchell's resignation of the chair of Latin, to take effect January 1, 1891, was accepted by the Board on motion of Mr. Cobb.

The Regent nominated Professor Herbert J. Barton, of Normal, to fill the vacancy, at a salary of \$2,000 a year, from January 1, 1891; and the nomination was approved on motion of Mr. McKay.

The employment of a janitor for Military Hall, at \$25 a month, was authorized.

The revision of rules for the gymnasium, presented by the Faculty for approval, was approved on motion of Mr. Cobb. The gymnasium fee was made 50 cents per term, the receipts to be used in purchase of apparatus for the gymnasium.

On motion of Mr. Bullard, it was voted that \$400 be assigned from the state appropriation for buildings and grounds for the construction of dressing rooms and a gun room on the south side of Military Hall, as proposed in the Regent's report.

On motion of Mr. Bennett, it was

*Resolved*, That hereafter the University buildings and grounds be not used for political purposes.

The petition of the senior class for leave to use Military Hall during commencement week was, on motion of Mr. Bennett, referred to the Faculty, with power to act.

While the petition from the Athletic Association was under consideration, Mr. C. S. Bouton, of the Association, was given ten minutes to explain plans for the use of the grounds asked for, and the character of the contests which it was proposed to hold thereon.

The matter was finally referred to the Committee on Buildings and Grounds, with power to act, the President and Regent being added to the committee in the consideration of this subject.

On motion of Mr. Harker, \$200 was assigned from current funds to complete coal and iron shed and water closets at the shops.

On motion of Mr. Bullard, \$225 was assigned from current funds for fitting three more rooms with settees and teachers' desks.

On motion of Mr. Harker, \$115 was assigned from state appropriation for apparatus and material, for swords and belts.

On motion of Mr. Bullard, there was assigned from state appropriation for mechanical and architectural shops:

For apparatus for mechanical department.....	\$63 00
“ drawing boards and paper, professor of architecture.....	70 00
“ cases for testing instruments, mechanical laboratory.....	25 00

On motion of Mr. Harker, there was assigned from current funds:

For case for musical instruments, in chapel.....	\$25 00
--	---------

On motion of Mr. Bullard, there was assigned from the state appropriation for buildings and grounds:

For current repairs, etc.....	\$250 00
-------------------------------	----------

The following appropriations were made of funds of the State laboratory of Natural History for the quarter beginning October 1, 1890, on motion of Mr. Bullard:

For field work, office and incidental expenses.....	\$250 00
“ salaries and assistance.....	750 00
“ improvement of the library.....	125 00

The question of granting degrees to persons who graduated from the University prior to the act of 1877, giving the University power to confer degrees, together with the question of conferring honorary degrees, was referred to the Regent and Messrs. Bennett and Harker, who were asked to report thereon at the next meeting of the Board.

The President of the Board of Direction was given authority, as asked, to appoint a second assistant chemist for the Experiment Station, at a salary of \$60 per month.

The chairman of the Committee on Buildings and Grounds reported that it would cost about \$250 to put up a suitable flagstaff and furnish a set of flags. The matter was referred back to the Committee for a further report at the next meeting.

An appropriation of \$100 was made from the receipts from the Griggs farm, for the construction of a fence on the west side of the farm, between it and Mr. Pell's land.

The Business Agent, Professor Shattuck, made the following report, which was approved:

URBANA, ILL., December 9, 1890.

*Alexander McLean, President Board of Trustees, University of Illinois,*

SIR: I have the honor to hand you herewith the financial statements due from me at this time.

Paper A is a report of the current appropriations for the three months ending December 1, 1890.

Paper B is a showing of the state appropriations, December 1, 1890.

Paper C is a list of vouchers presented for audit, being 926 to 967 old series, and 1 to 225 new series.

Paper D is an estimate of receipts and expenses for the nine months ending September 1, 1891, on the present basis.

Respectfully submitted,

S. W. SHATTUCK, *Business Agent.*

PAPER A—CURRENT APPROPRIATIONS.

Sept. 9, 1890, to Dec. 1, 1890.	Appropri'd	Receipts also appropri'd.	Exp'nded.	Balance.
Board expense .....	\$300 00	.....	\$119 80	\$180 20
Salaries for instruction.....	23,820 00	.....	2,959 98	12,360 27
"    "    services.....	2,560 00	.....	8,499 75	1,276 17
Buildings and grounds.....	50 00	\$237 00	1,283 83	123 89
Fuel and lights.....	2,500 00	.....	163 11	1,658 44
Stationery and printing.....	600 00	.....	841 56	182 35
Mechanical department.....	200 00	460 55	417 65	84 58
Architectural .....	200 00	810 59	575 97	.....
Agricultural .....	200 00	956 45	1,078 72	561 05
Horticultural .....	100 00	66 12	595 40	126 37
Military .....	100 00	.....	39 75	80 88
Laboratories.....	200 00	400 00	19 12	12 18
Library and apparatus.....	50 00	.....	587 82	13 75
Incidentals.....	313 30	.....	36 25	111 77
<i>Sundries—</i>				
Furniture and fixtures.....	380 00	.....	268 73	111 27
Water supply.....	200 00	.....	100 00	100 00
Military Hall.....	129 71	.....	106 16	23 55
Minnesota lands.....	.....	391 70	60 76	330 94
Preparatory year fees.....	.....	695 00	714 96	.....
University students' fees.....	.....	4,645 00	.....	4,645 00
New engine.....	96 15	.....	.....	96 15
Griggs farm.....	.....	100 00	.....	100 00
Moving machine shop.....	762 93	.....	446 45	316 48
Moving guns.....	25 00	.....	10 42	14 58
Heating apparatus.....	64 43	.....	63 40	1 03
Gymnasium.....	230 00	26 00	76 15	179 85
Coal and iron sheds.....	750 00	.....	88 44	.....
Premium on bonds.....	389 37	.....	389 37	.....

## PAPER B—STATE APPROPRIATIONS.

	Appropri'd	Received.	Exp'nded.	Balance.
Taxes on lands.....( $\frac{1}{2}$ per annum)	\$3,400 00	\$3,088 67	\$3,088 67	.....
Buildings and grounds.....	5,000 00	5,000 00	3,710 56	\$1,289 44
Mechanical and architectural shops.....	3,000 00	3,000 00	1,896 04	1,103 96
Books and publications.....	2,000 00	2,000 00	1,281 20	718 80
Cabinets.....	1,000 00	500 00	249 01	250 99
Expenses of instruction.....	40,000 00	40,000 00	28,499 75	11,500 25
Apparatus and material.....	3,000 00	3,000 00	2,647 28	352 72
Metallurgical laboratory.....	4,000 00	4,000 00	2,626 98	1,373 02
Machine shop boiler.....	1,250 00	1,250 00	1,184 48	65 52
	\$62,650 00	\$61,838 67	\$45,183 97	\$16,654 70
Illinois State Laboratory of Natural History.	15,123 62	14,373 62	9,308 56	5,065 06

The Finance Committee made the following reports, which were, on motion of Mr. Harker, approved:

URBANA, ILL., December 9, 1890.

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

GENTLEMEN: Your Finance Committee has examined the quarterly report of John W. Bunn, Treasurer of the University, and finds the same to be correct, and that there is cash in the treasury to the amount of \$25,996.45.

Respectfully submitted,

F. M. MCKAY, }  
S. A. BULLARD, } *Finance Committee.*

URBANA, ILL., December 9, 1890.

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

GENTLEMEN: Your Finance Committee has examined the vouchers of the University, numbered from 926 to 967 inclusive, and from 1 to 225 inclusive, and finds them correct. We have also examined vouchers for the Experiment Station, 765 to 825, and find them correct.

Respectfully submitted,

F. M. MCKAY, }  
S. A. BULLARD, } *Finance Committee.*

The Finance Committee returned the farm report with the recommendation that it be filed for record, and the recommendation was approved.

The Board adjourned.

ALEXANDER MCLEAN,

W. L. PILLSBURY,

*President.*

*Secretary.*

## MEETING OF MARCH 10, 1891.

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, Illinois, at 3:15 o'clock p. m., Tuesday, March 10, 1891. The members present were Messrs. Bullard, Funk, McKay, McLean, Morgan, Raab, and Shawhan; absent, Governor Fifer, and Messrs. Bryant, Clemens, Cobb, and Graham.

Mr. Morgan stated that he had received his commission and taken the oath of office.

The minutes of the last meeting were approved.

On motion of Mr. McKay, Mr. Bullard was elected President of the Board for the ensuing year.

On motion of Mr. McKay, W. L. Pillsbury was re-elected Corresponding and Recording Secretary for the ensuing year, and his salary was fixed at \$500.

On motion of Mr. Shawhan, Mr. J. W. Bunn, was re-elected Treasurer for the next two years.

On motion of Mr. Funk, the Treasurer was directed to furnish to the Executive Committee of the Board, for their approval, a satisfactory bond in the amount of \$300,000.

On motion, it was ordered that the President and the Finance Committee examine the securities held by the Treasurer, belonging to the endowment fund of the University, and report with regard to them at the next meeting of the Board.

On motion of Mr. McLean, Mr. Cobb was elected a member of the Executive Committee; and, on a further motion by Mr. McLean, Mr. Funk was elected a member of the same committee.

The Regent, Dr. S. H. Peabody, then presented his report.

## REGENT'S REPORT.

*To the Trustees of the University of Illinois.*

GENTLEMEN: Whatever may be the ambitions of the officers and the friends of the University of Illinois, whatever the comparisons which they may be pleased or be compelled to make with neighboring institutions, several things must not be forgotten. One is that it is still less than six years since it was recognized in any legal way, or in the public estimation as the State University. It has a good deal to earn in that direction yet. In these six years it has made rapid strides toward such recognition.

Another fact which must not be forgotten, is that its foundations rest still in the land grant act of 1862, lately reinforced by the Morrill college aid act, of 1890. The public, and especially that part of the public occupied in the so-called practical pursuits of life, look anxiously, and sometimes jealously, hitherward, fearing lest rights which they deem precious and peculiarly their own, should be wrested from them, or frittered away. The proposition to change the name, in 1885, was not unnaturally deemed occasion for suspicion and alarm by the class to which reference has been made. The congressional donation of added funds, again raises the question of What will they do with it? I have already shown that this University has always kept carefully its pledges, made and implied, as to doing that work which should serve to promote "the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Since the year 1885-6, when the total attendance was 332, the University has made each year a steady growth. Its roll this year has reached 513, and is not yet complete. I am well aware that by some this is counted as an insignificant and inconsequential growth. Those who know the care, the toil, the watchfulness, which has produced so much of progress, can not feel that their labors have been in vain, like water spilled upon the ground. A different policy might have brought more students, but that would not have insured a stronger institution. Oaks and gourds do not thrive in the same way, or bear the same harvest.

Mindful always of the industrial obligations of this University, which though they have vanished from the title, are yet wrought into every fibre of its growth,—the cement that binds its walls into firm strength,—I have been interested to analyze the growth of the University, to discover if possible how well the pledges of 1885 have been kept. In those years the school of agriculture has maintained its numbers; that of mechanical engineering has grown one-half; that of civil engineering has nearly doubled; that of mining engineering has, unfortunately, not grown; that of architecture has enlarged nearly three fold; that of chemistry has added one-half; that of natural history has doubled; that of art and design has not increased; that of English and modern languages has maintained its own; that of ancient languages, though small, is doubled.

TABLE OF STUDENTS BY COLLEGES—1881-1891.

YEAR.	Agriculture...	Engineering..	Nat. Science.	Tech. Colleges..	Lit. and Science..	Totals.....
1881-1882.....	21	99	66	186	123	352
1882-1883.....	28	112	51	191	132	332
1883-1884.....	24	139	43	206	102	330
1884-1885.....	21	141	43	205	106	362
1885-1886.....	25	123	45	193	109	332
1886-1887.....	29	142	46	217	90	343
1887-1888.....	23	160	49	232	93	377
1888-1889.....	16	201	74	291	99	417
1889-1890.....	14	216	93	323	116	469
1890-1891, in part.....	25	225	87	337	112	482
Present roll, end of winter term, 1891.....						513

The success in the technical departments should be paralleled by progress in the literary departments, and, as you know, earnest effort has already been put forth in that direction. It is only lately that the chair



of Latin was made a full professorship, and the chair has been worthily filled by Professors Butler and Winchell, and is now occupied by Professor Barton, who is proving himself fully equal to its requirements. The new chair of French, so long united with the German under one teacher, is in good hands, in the care of Professor Paradis. The addition of Professor DeGarmo to our corps has elicited the warmest commendations from all teachers throughout the state, and will surely bring a large following at an early day. The appointment of a professor of Greek, one who certainly cannot be omitted in an institution which claims to be a University, has been delayed for a brief time, but should be delayed no longer. The professor has been selected and approved, and can be at his post next term.

Negotiations are in progress which it is hoped will bring a competent engineer into the chair of mining engineering, and result in putting that school for the first time upon its feet. In another place I shall present to you a request for the means needful to provide a department of electrical engineering, with an immediate and fair equipment for business.

These seem to be the directions for present development. When these are in action, there will appear abundantly more beyond. For ten years the motto has been, Do the next thing—just as soon as practicable.

The recommendations as to the gymnasium made in September were carried temporarily into effect, by your permission. I have to renew the suggestions then made that efforts be made to secure permanently a suitable person as professor of physical culture.

The additions which have been made to the corps of instruction in the last year, have developed an occasion and a need for the revision of the courses of study. This was done last June for the engineering courses. Careful examination has been made of the other courses. They have been modified, and it is believed improved materially. Enlarged opportunity has been given for instruction in physics, and more logical arrangements of the other sciences have been secured. In the College of Literature and Science, a course of Latin and science is offered, for such as desire to pursue that language, but do not care to accompany it with Greek, as in the ancient language course.

Following the two first years of either of the courses, English and science, Latin and science, or ancient language, a two years' course for teachers has been arranged, especially for the accommodation of Professor DeGarmo's work.

If the equipment recommended elsewhere for electrical engineering is approved, a course in that subject should be arranged, and I ask that, in that case, leave be given to the Faculty to arrange such a course, and put it in the forthcoming catalogue.

With the assistance of Professor Morrow, a junior course in agriculture has been arranged to cover two years, one being parallel in some measure to the present preparatory course, but containing more special work in agriculture; the other year more nearly parallel to the freshman year. This is to take the place of the farmers' short course now in use. The students to be in rank and fees counted with the preparatory students.

This is viewed as an experiment, with the hope that it will satisfy the wants of a larger number of farmers' sons and draw them to the University, and that it will in a measure meet the feeling that after all the University is doing little to aid the farmer's boy. However well we may know that this idea has no substantial foundation in fact, and no sound educational basis, still it exists. It can do little harm, if any, to the University to make this experiment. A similar one is in progress in the University of Minnesota, University of Wisconsin, and elsewhere.

In accordance with the earnest desire of Professor Ricker, I recommend that the builders' course be dropped after a year's notice. The number asking for it has of late been very small, and they would be better provided for in the regular architectural course.

## JUNIOR COURSE IN AGRICULTURE.

## FIRST YEAR.

1. Farm Equipment and Management; Natural Philosophy; Algebra.
2. Farm Animals; Zoölogy; Algebra.
3. Orchard and Garden; Botany; Plane Geometry.

## SECOND YEAR.

1. Farm Measurements and Drainage; Animal Anatomy; Chemistry.
2. Farm Crops; Veterinary Science; Chemistry; Shop Practice.
3. Farm Law; Veterinary Science; Entomology.

## COLLEGE OF AGRICULTURE.

## FIRST YEAR.

1. American Authors; Chemistry; Advanced Algebra.
2. British Authors; Chemistry, Trigonometry.
3. Horticulture; Chemistry; Conic Sections.

## SECOND YEAR.

1. Chemistry and Laboratory; Physics; Animal Anatomy and Physiology.
2. Chemistry of Agriculture; Physics; Veterinary Science; Veterinary Materia Medica.
3. Chemistry of Agriculture; Physics; Veterinary Science.

## THIRD YEAR.

1. Agricultural Engineering and Architecture; Botany; German or French.
2. Animal Husbandry; Botany or Zoölogy; German or French.
3. Economic Entomology; Vegetable Physiology; German or French.

## FOURTH YEAR.

1. Mental Science; Geology; History of Civilization.
2. Rural Economy; Geology; Pedagogy or Constitutional History.
3. History of Agriculture and Rural Law; Physiography, or Astronomy, or Pedagogy; Political Economy.

## COURSE IN CHEMISTRY.

## FIRST YEAR.

1. Chemistry; Advanced Algebra; Drawing; French.
2. Chemistry; Trigonometry; Drawing; French.
3. Chemistry; Conic Sections; Drawing; French.

## SECOND YEAR.

1. Laboratory; Physics; German.
2. Laboratory; Physics; German.
3. Laboratory; Physics; German.

## THIRD YEAR.

1. Laboratory; Mineralogy; Physiology, or Botany.
2. Laboratory; Botany; German of Science.
3. Laboratory; Vegetable Physiology, or Biology; German of Science.

FOURTH YEAR.

1. Laboratory; Geology; Mental Science.
2. Laboratory; Geology; Constitutional History, or Pedagogy, or Logic.
3. Laboratory; Physiography, or Astronomy, or Pedagogy; Political Economy.

COURSE IN NATURAL HISTORY.

FIRST YEAR.

1. Chemistry; Advanced Algebra; Drawing; French.
2. Chemistry; Trigonometry; Drawing; French.
3. Chemistry; Conic Sections; Drawing; French.

SECOND YEAR.

1. Botany; Physics; German.
2. Botany; Physics; German.
3. Vegetable Physiology; Physics; German.

THIRD YEAR.

1. Zoölogy; Mineralogy; Physiology.
2. Zoölogy; Constitutional History; German of Science.
3. Zoölogy; Entomology; German of Science.

FOURTH YEAR.

1. Biology; Geology; Mental Science.
2. Biology; Geology; Logic, or Pedagogy.
3. Biology; Physiography, or Pedagogy; Political Economy.

COURSE IN ENGLISH AND SCIENCE.

FIRST YEAR.

1. American Authors; Advanced Algebra; French; Drawing.
2. British Authors; Trigonometry; French; Drawing.
3. British Authors; Conic Sections; French; Drawing.

SECOND YEAR.

1. English Classics; Physics; German; Drawing (optional).
2. English Classics; Physics; German; Drawing (optional).
3. English Classics; Physics; German; Drawing (optional).

THIRD YEAR.

1. History, Ancient; Chemistry; Physiology, or Botany.
2. History, Mediæval; German; Zoölogy, or Botany.
3. History, Modern; German; Geology, or Astronomy.

FOURTH YEAR.

1. History of Civilization; Mental Science; Early English, or Geology.
2. History, Constitutional; Logic; Middle English, or Pedagogy.
3. Political Economy; Civics, or History of Philosophy; Philology, or Pedagogy.

## COURSE IN LATIN AND SCIENCE.

## FIRST YEAR.

1. Cicero de Amicitia; Advanced Algebra, French; Drawing.
2. Livy; Trigonometry; French; Drawing.
3. Horace, Odes; Conic Sections; French; Drawing.

## SECOND YEAR.

1. Horace, Satires; Physics; German; French (optional, fourth).
2. Terence; Physics; German; French (optional, fourth).
3. Tacitus; Physics; German; French (optional, fourth).

## THIRD YEAR.

1. Latin, or History; Chemistry; Physiology, or Botany.
2. Latin, or History; German; Zoölogy, or Botany.
3. Latin or History; German; Astronomy.

## FOURTH YEAR.

1. History of Civilization; Mental Science; Early English, or Geology.
2. History, Constitutional; Logic; Middle English, or Pedagogy.
3. Political Economy; Civics, or History of Philosophy, Philology, or Pedagogy.

## COURSE IN ANCIENT LANGUAGES.

## FIRST YEAR.

1. Cicero de Amicitia; Iliad; Advanced Algebra; Drawing.
2. Livy; Odyssey; Trigonometry; Drawing.
3. Horace, Odes; Memorabilia; Conic Sections; Drawing.

## SECOND YEAR.

1. Horace, Satires; Thucydides; Physics; French (optional).
2. Terence; Sophocles; Physics; French (optional).
3. Tacitus; Demosthenes; Physics; French (optional).

## THIRD YEAR.

1. History, Ancient; Chemistry; Physiology.
2. History, Mediæval; Quintilian; Zoölogy.
3. History, Modern; de Officiis; Geology, or Astronomy.

## FOURTH YEAR.

1. History of Civilization; Mental Science; Early English, or Geology.
2. History, Constitutional; Logic; Middle English, or Pedagogy.
3. Political Economy; Civics, or History of Philosophy; Philology, or Pedagogy.

## TEACHERS' COURSE.

First and second years may be those of either the course in English and Science, Latin and Science, or Ancient Languages.

## THIRD YEAR.

1. Educational Psychology; Chemistry; Botany.
2. Science of Instruction; Logic; Botany.
3. Special Methods of Instruction; Modern History; Astronomy.

## FOURTH YEAR.

1. School Supervision; Mental Science; Physiology, or Geology.
2. History of Education; Introduction to Philosophy; Zoölogy.
3. Philosophy of Education; History of Philosophy; Political Economy.

I wish to call attention to the fees charged for use of tools and material in the shops. It was the intention that this should help to pay the constantly growing expenses of that department, which the legislature has steadily refused to assist with any larger aid than was given fifteen years ago, when the number employed there was hardly a fifth of those now at work. But this fee has been a source of dissatisfaction, and I recommend that it should be dropped.

The same may be said of the gymnasium fee. But if it is dropped, there must be for a time regular appropriations for apparatus, until the hall becomes fairly stocked, and for the constant deterioration for wear and tear.

These fees being removed, the only remaining charge of this nature will be that made for chemicals and material in the chemical laboratory. There has been much dissatisfaction there, because of charges apparently not made to others. If the fee for workshops is removed, ought not a corresponding reduction to be made in the laboratory? This could be done by omitting the charge for gas, which amounts to about \$2 per term per student.

The military department is again the source of serious irregularity and disturbance. I learn that that matter is to come to your notice from another direction, and I shall not seek to forestall your opinions or judgment by any discussion of the situation here. At the proper time, if it is your pleasure, I have a full statement to make of that affair.

## THE INCOME FROM THE CONGRESSIONAL ACT COMMONLY KNOWN AS THE MORRILL COLLEGE AID BILL.

At the September meeting it was known that this bill had become law and that \$15,000 would soon fall to the State of Illinois for the use of this University, under the provisions of this law.

Information was had in November that the sum of money above named had been sent to the State Treasurer, but our own Treasurer could get no information that it had been received at Springfield, and at the December meeting he had not learned that the money had been so received. Soon after the last meeting was adjourned, I caused inquiry to be made at the Treasury in Washington, and found that a check had been sent to the Treasurer of the State of Illinois, for \$15,000, "on account of sales of public lands." This money had been receipted for in the manner usual in such cases, and was in the Treasury. But farther investigation developed the opinion, coincided in by all the state officers whose opinions were asked, that it could not be drawn out of the Treasury by our Treasurer, except in accordance with the provisions of an appropriation bill duly passed by the General Assembly; and that to make the money available to the University before the first of July next, that is to get the use of it at all, during the current fiscal year, such an act must have an emergency clause, and be passed by a two-thirds vote of both houses. The Attorney General farther advised that such an act could not be operative beyond the time for which the present legislature has power, that is not beyond the first day of July, 1893.

A bill was drawn embodying these points,—1. Giving legislative assent to the purposes of the act of congress referred to, as required by the provisions of the act itself. 2. Appropriating to the University of Illinois all moneys which should accrue to the state under said act prior to July 1, 1893. 3. Directing the Auditor to draw his warrant for said moneys, under the usual requisition from the Board of Trustees, drawn by the President and Secretary. 4. Declaring an emergency, and so making the act operative immediately after its passage.

Although no committees have been appointed in the House of Representatives, and while those of the Senate, although appointed, have done no business, this bill has been carried through both houses, the Senate passing it finally on the 6th of March, by 46 votes. I see no reason why this money may not be in the hands of the University Treasurer within the current week.

Meanwhile I have been called upon by the Secretary of the Interior, through the Commissioner of Education, to make report as to the expenditure of this \$15,000, as furnishing the basis of information upon which he may proceed, if this information is found to be satisfactory, to pay to the University the next installment of \$16,000. The form of the report asked for indicates very clearly the mind of the Secretary that he must know definitely for what the money of one installment has been used, or for what use it has been set aside or appropriated, in order that he may judge whether these uses accord with the requirements of the act, before he may take the initiative necessary for the payment of another installment. The only answer which could be made to the inquiries of the Secretary was that no money had yet been received, for reasons explained, and therefore that none had as yet been expended.

The situation appears now to be this: The sum of \$15,000 will be in the hands of our Treasurer as soon as the needful formalities can be arranged. It is necessary that this money should be expended, or at least be put in train for expenditure, before the end of the present fiscal year, closing June 30th next, in order that we may procure the order of the Secretary of the Interior for the next installment, admitted to be due to us, whenever he shall be satisfied as to the proper expenditure of the sum now practically in hand. This money is now practically part of the assets for this year, and cannot properly be carried forward into next year; or, if so carried forward, will only prevent the reception of the money which is the regular portion of the next year.

The appointment of five additional instructors was authorized at the September meeting. Three of these have been appointed, have accepted their positions, and have been in service since January first. All arrangements have been made for the appointment of another, and the Regent was authorized to complete the appointment when in his judgment the financial situation would admit such a step. It was not until the 7th of this month that the condition was known to permit the appointment, and I have delayed a few days only, pending the meeting of the Trustees. I hope, however, to be authorized to go on in this matter, so that the new man may be at work at the opening of the spring term.

The nomination of a mining engineer is still not ready. I have excellent recommendations for a gentleman from Colorado, but have not been able to have an interview with him, without which I should not be willing to act. I hope to have such an interview during the present month, and that the place may be filled.

Most of the appointments to which I have referred, will not be paid from the Morrill aid fund, but from other University funds which the proper use of the Morrill aid fund will set at liberty. It has been shown before, that the University is now paying for the kind of instruction authorized by the law as payable out of this fund, an amount equal to the entire income from the land grant fund of 1862, and the Morrill aid fund. It will then be proper to set aside to be paid from this new fund so much of professors' salaries germane to the action of the law as, in your judgment, shall be thought best.

I would recommend that one-half of the fund now in hand be used in this way. This will set free in current funds enough to pay the salaries of the new professors appointed, and about \$3,500 more. The other half may properly be used in extending our equipment, providing "facilities for instruction in the subject pertaining to agriculture and the mechanic arts, the English language, and physical, natural, mathematical and economic science." It still impresses me that the thing to do with this fund is to use it; to save it is to lose it.

The first item which I would advise is that a sum be set aside for the immediate addition of apparatus for instruction in electrical engineering. Something has been begun in the lower room of the east wing of University Hall. One half of the remaining room on that floor should be used as a place for installation of dynamos. A good gas engine should be set with sufficient piers, shafting, etc., to arrange a suitable variety of these electric generators. I ask that there be set apart:

For further equipment of electric laboratory .....	\$2,500 00
For extending the laboratory of the mechanical engineering department.....	1,000 00
For the purchase of balances and other permanent apparatus for the chemical laboratory.....	1,000 00
For instruments for civil engineering.....	500 00
For botany and physiology.....	500 00
For natural history collection.....	2,000 00
In all.....	\$7,500 00

I wish to suggest that all moneys which may be received from the United States through the State Treasurer, pursuant to the provisions of the Morrill college aid act, be administered as a special fund, distinct from all other moneys in the University treasury; and that all moneys paid out of this fund be paid pursuant to distinct appropriations therefrom, which shall so clearly specify the purposes for which the moneys are to be used, as to show that they conform strictly to the requirements of the act of congress under which the money comes to the University. This will give a proper and safe foundation for the annual report of the disbursements of these moneys, which the President of the University is required to make to the secretaries at Washington, furnishing to them the official information upon which they may proceed to authorize the consecutive payments contemplated in the law.

I present the quarterly report of the professor of agriculture, as follows:

FARM REPORT.

*Dr. S. H. Peabody, Regent,*

URBANA, MARCH 5, 1891.

SIR: For the three months ending March 1, 1891,

The farm receipts have been .....	\$518 79
The expenditures have been.....	309 08

The weather has been unusually favorable for the live stock, which has, with few exceptions, done well. We have been caused some trouble by lack of a full supply of water at the experiment farm barn.

Respectfully submitted,

G. E. MORROW.

I present the annual financial report of the business departments of the University.

### FINANCIAL REPORT, MARCH 1, 1891.

#### *Agricultural Department—Balance Sheet, December 1, 1890.*

Inventory, Dec. 1, 1889—		
Live stock .....	\$10,275 00	
Farm products.....	2,272 00	
Machinery and tools.....	1,400 00	
Miscellaneous .....	20 00	
		<u>\$13,967 00</u>
Inventory, Dec. 1, 1890—		
Live stock .....	\$9,734 00	
Farm products.....	2,567 00	
Machinery and tools.....	1,400 00	
Accounts and miscellaneous.....	175 00	
		<u>\$13,876 00</u>
Balance, decrease .....		91 00
		<u>\$13,967 00</u>
Receipts from sale—		
Live stock .....	\$1,396 97	
Field products.....	1,092 51	
Miscellaneous .....	324 71	
		<u>\$2,814 19</u>
Expenses—		
Labor.....	\$1,664 04	
Live stock .....	278 40	
Miscellaneous .....	515 28	
		<u>\$2,457 72</u>
Balance.....		356 47
		<u>\$2,814 19</u>
Balance of receipts.....		\$356 47
Deficit, decrease in inventory.....		91 00
Final balance, in favor of department .....		<u>\$265 47</u>

#### *Griggs Farm.*

Rent received .....		\$1,345 58
Expenses.....		54 73
Balance.....		<u>\$1,290 85</u>

#### *Horticultural Department.*

Credits .....		\$359 75
Debits.....		300 14
Balance.....		<u>\$59 61</u>



*Chemical Department—Balance Sheet, March 1, 1891.*

<b>Inventory—</b>		
March 1, 1891 .....		\$14,299 39
March 1, 1890 .....		13,800 00
Balance, increase in inventory .....		\$499 39
<b>Credits—</b>		
From state appropriations .....	\$500 00	
Received from students .....	1,773 52	
Furnished other departments .....	14 91	
Deficit. ....		\$2,288 43
		65 65
		\$2,354 08
<b>Debits—</b>		
Chemicals and apparatus, permanent .....	\$292 59	
Chemicals and apparatus, current .....	1,328 29	
Sundries, repairs, freight, etc. ....	250 10	
Gas .....	483 10	
		\$2,354 08
Balance, increase in inventory .....		\$499 39
Deficit. ....		65 65
Final balance, for department. ....		\$433 74

*Machine and Carpenter Shops—Balance Sheet, March 1, 1891.*

	Machine Shop.		Carpenter Shop.	
<i>Cr.</i>				
Work for University .....	\$1,279 83		\$3,491 79	
Work for other parties. ....	39 14		226 76	
State appropriations. ....	1,053 38		789 46	
Deficits .....		\$2,372 35		\$4,508 01
		3,065 47		932 13
		\$5,437 82		\$5,440 14
<i>Dr.</i>				
Materials and tools. ....	\$1,833 65		\$1,936 99	
Labor .....	771 61		2,050 59	
Power. ....	252 56		252 56	
Instruction .....	2,580 00		1,200 00	
		\$5,437 82		\$5,440 14
Total deficit. ....				\$3,997 60
<i>Inventory.</i>				
February 28, 1891 .....	\$791 33		\$1,333 56	
February 28, 1890 .....	277 94		1,193 59	
Increase. ....	\$513 39		\$139 97	
Total increase. ....				653 26
Total balance, against shops. ....				\$3,344 24
From which should be deducted amount of shop fees collected. ....				
If cost of instruction be deducted, shops gain. ....				\$435 76

*General Balance Sheet of Business Departments.*

	Loss.	Gain.
Agricultural department.....		\$265 47
Griggs farm.....		1,290 85
Horticultural department.....		59 61
Chemical department.....		433 74
Machine and carpenter shops.....		435 76
Total balances.....		\$2,485 43

*Inventory of Movable Property Belonging to the University of Illinois, March 1, 1891.*

Department.	Articles Enumerat'd.	Articles Estimated.	Total.
Agricultural.....	\$2,684 60	\$11,192 00	\$13,876 60
Architectural.....	4,302 93	1,333 56	5,696 49
Art and design.....	728 30		728 30
Art gallery.....	3,084 10		3,084 10
Botanical.....	1,373 60	2,500 00	3,873 60
Chemical.....	4,218 86	10,080 53	14,299 39
Civil engineering.....	3,486 34	1 00	3,586 34
Mechanical.....	14,248 05	791 33	15,039 38
Mining.....		2,500 00	2,500 00
Military.....	7,865 15	250 00	8,115 15
Museum natural history.....	6,430 00	2,000 00	8,430 00
Physical laboratory.....	6,818 21	100 00	6,918 21
Library.....	34,330 00		34,330 00
Blue printing laboratory.....		100 00	100 00
Furniture.....		3,500 00	3,500 00
Heating apparatus.....		23,000 00	23,000 00
Total inventory.....	\$89,630 14	\$57,447 42	\$147,077 56
Belonging to United States.....			7,965 15
Total belonging to University.....			\$139,112 41

## THE EXPERIMENT STATION OF THE UNIVERSITY OF ILLINOIS.

On the first of April next the Experiment Station will enter upon the fourth year of its labors. Were it not more definitely required in the "Plan of Organization," it would certainly be appropriate that a brief review of the work of the Station should find a place in this report.

It is not necessary to explain the plan upon which the Station was organized, or the means chosen to keep it in touch with the leading organizations that represent the interests of those producing value from the soil. The arrangements have certainly produced fairly good results. The Station and its officers have everywhere received kindly recognition and reasonable co-operation. The state is very broad, and its interests widely diversified. The Station has sought to know, and to provide for, so far as its means would allow, these varied and diverse interests. If any one of them, having its own necessities most near its vision and its sympathy, has ever felt that it was getting less than its needs demand, the fact that each of the others has participated, in some degree, in the same feeling, may be taken as fairly good evidence that, after all, the Station was honestly seeking to deal fairly by all in the apportionment of its labors. In one particular, certainly unavoidable, the Station has suffered, namely, in the frequent changes made in its chemical workers; this has been most seriously felt in the department of dairying experimentation. Another misfortune occurred in the burning of the barn devoted to experimental work, with its adjuncts of sheds, and dairy house. Some temporary substitutes were provided, but the proper restoration awaits legislative aid.

The agriculturists of Illinois are occupied, first, in producing wealth by tillage of the soil, most extensively in field culture; and very extensively in the garden, the orchard and the vineyard. Secondly, those who are occupied in field culture are also, and of necessity, interested in the processes of converting these products into more intensified forms of food for mankind either for the shambles, or in the dairy. From this generalization have sprung up the lines of Station work chiefly followed under the four heads of Field Experiments, Feeding Experiments, Dairying Experiments and Horticultural Experiments.

To the oversight of each of these departments a standing committee of the Board of Direction has been assigned. The field experiments have justly been deemed fundamental to each of the next two, the feeding of field products for the production of flesh or of milk, so that the dairy-men's interests, for example, have been cared for in all this line of work, as well as those of the producer of beef or of pork.

These lines by no means include all that might have received, with entire propriety, some of the attention of the Station. If the question were one of urgency, the Station might very properly give attention, for example, to the methods of irrigation and the profits thence to be derived. It has not analyzed commercial fertilizers, because the farmers of Illinois have little occasion for their use, and because the law provides other means for this end. It has not undertaken observations in meteorology, in the large way, because that duty appears to be sufficiently performed in other channels. It has not established a department of entomology, because by its side already exists one of the best equipped departments in the land. It has not undertaken the sugar question, because it judges that already that has been thoroughly exploited in this state. It has sought to seize such vital issues as are most important to the farmers of Illinois.

The number of different experiments undertaken has been 119. These are not all to be taken as of equal importance, but each is intended to discuss some definite question, simple or complex, and each is known by its distinct number. These may be classed as follows:

	Begun.	Now going on.	Reported on.
Field experiments .....	47	38	27
Feeding experiments .....	19	9	2
Dairying experiments .....	2	2	*2
Horticultural experiments .....	34	30	4
Miscellaneous experiments .....	17	15	5
	119	94	40

\*Five reports have been made.

Fifteen bulletins have been published, filling 496 closely printed pages, and containing 41 articles, each a partial or full report on some experiment. Three annual reports have been issued, containing fifty-six pages. Several sheets of articles prepared for press use have been sent out. As the work progresses the press upon the pages of the bulletins will be constantly greater, as more experiments come to a stage which will authorize publication.

The number of pages issued in 1888 was 36; in 1889, 252; in 1890, 100; in January and February, 1891, 108. The issues are paged in one volume, which will be closed by July 1, 1891, and furnished with a title page and index. Subsequent volumes will be closed whenever the quantity issued makes a book of convenient size.

The Station enjoys peculiar advantages because it stands as a department of the University, and therefore has, free of rent-charge, the use of all the lands it has need of, and of a convenient and spacious suite of rooms. By this means it is possible that the whole of its annual income

may be made available for the current expenses of its operations. But now that the work is well organized and ordered, it becomes easy to see how and why added means could be made to produce more than proportionably added results. Note is here gratefully made of the fact that one of the Station directors, Mr. H. B. Gurler, of DeKalb, has on several occasions permitted the use of his large and valuable herd of milch cows, and of his well ordered creameries, for working out of important tests, and for developing the methods of experiment in this particular subject.

For the conduct of certain important experiments upon the growing of wheat in the southern part of the state, suitable small tracts of land have been selected and hired at no very great expense.

Besides the Regent of the University, who is President of the Board of Direction, and has no extra compensation for his services, the Station staff has consisted, during most of the year, of a secretary, who has charge of the business, the correspondence, the records, and the publications; two professors, who act as supervisors, one of agriculture, the other of botany and horticulture; two professors who act as consulting veterinarian and entomologist; an agriculturist, horticulturist, chemist, and assistant chemist, two assistants to botanist, a stenographer, and such other temporary assistants or workmen, as from time to time may be needed.

The agriculturist, Mr. Thomas F. Hunt, a graduate of the University of Illinois, and a person of unusual adaptability to the work required of him in the Station, patient, methodical, exact, and full of resources, resigned at the middle of January, to take a place of larger opportunity and responsibility at the State College of Pennsylvania. This removal results in a decided loss to the Station, at a critical time, and one which should immediately be filled. Believing that the University has at present no person who can properly fill this position, it seems that immediate effort should be made to supply this vacancy from without.

Mr. E. H. Farrington has proved himself an accomplished chemist, who has already done special service to the dairying interest. I am disposed to recommend that he be raised to the grade of chemist, and to inquire whether it would not be wise to give him a place on the Board of Direction.

From the beginning the accounts of the Station have been kept scrupulously distinct from those of the University. While some of the University professors are giving service to the Station, some with small pay, and others with none at all, none of the Station staff is doing work for the University. Should any one be called for such duty, suitable adjustments would be made. While, as has been shown, the University is giving large material aid to the Station, the Station funds are in no way diverted directly or indirectly, to the support of the University.

For detailed and itemized accounts of the Station expenses, reference is made to the regular quarterly reports. Four months of the current fiscal year yet remain. Grouping the expenditures already made, and those provided for in the estimates, the sums used in the present year will be as follows:

For salaries .....	\$6,563 50	
Wages and teams .....	3,737 29	
Printing bulletins .....	1,635 97	
Apparatus and books .....	930 17	
Special experiments .....	496 28	
Miscellaneous expenses .....	791 84	
Balance .....		\$14,155 05
		844 95
Total appropriation .....		\$15,000 00

A balance of \$844.95 appears not to be provided for. This comes partly because reasonable caution has been constantly taken lest the expenses should outrun the income, but chiefly because the resignation of the assistant agriculturist has left his salary unused. If this place should be filled as has been suggested a part of this surplus will be needed.

For the remainder, the opportunity offers to obtain certain things much desired, but hitherto postponed for want of means. Among these may be named:

A drying apparatus to cost say.....	\$50 00	
A threshing machine.....	175 00	
Cases in room set apart for a museum; in part, to cost, say.....	60 00	
New roof and fittings for a dairy house.....	250 00	
		\$535 00
Salary of agriculturist, 3 months.....		300 00
		\$835 00

Leaving a small balance to be closed out in the usual manner.

For the next fiscal year, detailed estimates are given by the Secretary. In a larger grouping they are as follows:

For salaries.....	\$7,500 00	
Wages and teams.....	3,700 00	
Printing bulletins.....	1,600 00	
Apparatus and books.....	925 00	
Special experiments.....	400 00	
Seeds, tools, and fertilizers.....	275 00	
Miscellaneous expenses.....	600 00	
		\$15,000 00

The salaries are estimated to absorb one-half of the appropriation. This is upon the rates now paid. Those of the older professors are entirely nominal, and in no respect apportioned to the service rendered. It is natural and reasonable that the younger men should seek to have their compensation augmented as the quality of their service improves. It does not seem possible to make any material changes in the salaries, while the work has its present scope, nor is it easy to say where the scope may be contracted. The temptation is strong to enlarge the work, when one sees the multitude of problems which present themselves for solution. But some of the problems seem to have been fairly wrought out, and may be dismissed. Others need repetition. Others will require, not very much work, but long time for their solution. Will it not be desirable to give the list a searching scrutiny, with a view to determine what experiments may be dropped, either as inconsequential, impracticable, or worked out, so that room may be made either for intenser work on such as remain, or for the introduction of new ones that demand consideration? When a new subject is prepared for experiment, which shall we ask? Will it be interesting to do this? or, Is this a matter that needs to be done? Are there not plenty of the latter ready to our hands?

We have expended \$45,000 on this enterprise. Some of it is in the nature of an investment, like the planting of certain kinds of forest trees, whose returns come only after a long period of waiting. What of the remainder? Are we sure that the harvest is worth the expenditure of land and labor? If they have not been of so much worth, how can their worth be made greater? Some day, and perhaps at an early day, the Experiment Station will find these questions to be very pertinent, and imperative.

The Board of Direction presents the following papers:

Paper A is a list of warrants drawn, Nos. 826 to 895, inclusive, and is accompanied with vouchers for the same.

Paper B is a statement of the expenditures for the quarter ending December 31, 1890.

Paper C is a statement of the appropriations, expenditures and balances for the quarter ending March 31, 1891.

Paper D is a statement of appropriations asked for this and the next quarters.

At a meeting of the Board yesterday a committee was appointed to which was referred all propositions approved for new work, and the committee was instructed to consider these further, and at the same time to look over the list of experiments already authorized, and to make such modifications of the work as should be found best, keeping within the limits of appropriations made.

The Board reports that it has reappointed the members of the Station staff, and has fixed their salaries for the year beginning April 1, 1891, as below :

Professor T. J. Burrill, Horticulturist and Botanist.....	\$300 00
Professor G. E. Morrow, Agriculturist.....	300 00
Professor S. A. Forbes, Consulting Entomologist.....	
Professor D. McIntosh, Consulting Veterinarian.....	
E. H. Farrington, Chemist.....	1,500 00
G. W. McCheser, Assistant Horticulturist.....	1,320 00
G. P. Clinton, Assistant Botanist.....	600 00
E. K. Nelson, Assistant Chemist.....	480 00
W. L. Pillsbury, Secretary.....	1,500 00

It asks that these appointments and salaries be confirmed.

For the use of the Station the next year the Board asks for about the same lands as have been heretofore used; but it asks that any slight changes found desirable in them may be made with the consent of the Farm Committee of your Board.

The Board of Direction reports that, if you approve the appropriation asked, it will undertake to restore and refit the dairy house, which was nearly destroyed when the north barn was burned.

Authority is also asked to get bids for chemical and botanical apparatus and supplies, to be imported, and to contract for the same upon a satisfactory bid—the amount not to exceed for

Chemical laboratory.....	\$225 00
Botanical laboratory.....	50 00
	\$275 00

#### PAPER B—EXPENDITURES FOR QUARTER ENDING DECEMBER 31, 1891.

Buildings and repairs.....	\$10 00
Board expense.....	23 66
Books and publications.....	199 16
Botanical apparatus.....	3 65
Bulletins.....	298 99
Chemical apparatus.....	50 50
Fuel and lights.....	70 16
Incidentals.....	7 35
Printing, stationery, and postage.....	14 40
Salaries.....	1,675 00
Seeds and trees.....	2 35
Tools and supplies.....	13 50
Wages and teams.....	826 57
<i>Sundry Experiments—</i>	
Dairying experiment.....	63 01
Fair exhibit.....	45 77
Total.....	\$3,304 07
Balance.....	\$504 25

## PAPER C—ESTIMATES.

<i>For Quarter Ending March 31, 1891 :</i>	
Bulletins.....	\$275 00
Wages and teams.....	50 00
	<hr/> \$325 00
<i>For Quarter Ending June 30, 1891 :</i>	
Buildings and repairs { Dry room.....	\$50 00
	250 00
	65 00
	30 00
Board expense.....	150 00
Books and publications.....	25 00
Botanical apparatus.....	300 00
Bulletins.....	50 00
Chemical apparatus.....	10 00
Fertilizers.....	150 00
Fuel and lights.....	25 00
Incidentals.....	25 00
Printing, stationery, and postage.....	1,800 00
Salaries.....	50 00
Seeds and trees.....	200 00
Tools and supplies.....	1,075 00
Wages and teams.....	
<i>Sundry Experiments—</i>	
Dairying experiments.....	100 00
Wheat experiments.....	50 00
	<hr/> \$4,405 00
Funds available for the quarter.....	4,400 00

## ATHLETIC ASSOCIATION.

The petition of the Athletic Association was referred by you to a committee of five, which has attended to its duty and is ready to report. I have been informed that part of the hesitation which the Association feels as to the acceptance of the permission therein granted, comes from the appreciation of the cost of the undertaking which a nearer view brings to their minds. Some part of the expense will arise from the need of grading the grounds, especially in the part where the removal of the old building has left unsightly and troublesome cavities. Might it not be proper for the Trustees to appropriate a sum of money enough to do this grading, at least putting that part of the campus in a presentable condition? I recommend that this be done, and that a sum of money be authorized for this purpose to be expended under the supervision of the University officers.

The petition of the senior class for use of Military Hall on an evening of commencement week was referred to the Faculty, and that body has agreed that the Hall may be used on Monday evening of that week, for senior reception and banquet.

## IMPROVEMENTS.

The work of resetting the assaying furnaces in the metallurgical laboratory is finished, and the advantage gained very satisfactory. The cost has overrun the estimate, and a farther appropriation from the state fund for metallurgical laboratory is asked for the balance, \$73.04. The work was one which it was difficult to estimate.

A balance of \$509.40 remains in the account of state appropriation for buildings and grounds, which should be closed out by the first of July. I recommend that there be used

For care of grounds, and for extending cinder walk across the arboretum.....	\$300 00
For current repairs, as needed.....	209 40

The other state appropriations, except for metallurgical laboratory, will be exhausted by the first of July.

The new engine, now in construction in the machine shop, for use in that shop, is nearly finished. Before it can be set, a suitable foundation is needed, also pulley and steam connections. An appropriation of \$100 is asked for this purpose.

The usual appropriation of \$200 for commencement expenses is asked.

Authority is asked for publication of the annual catalogue, 6,000 copies.

The Chicago Graphic Company has made a proposition to publish four illustrated pages, showing the University buildings, and including such letter press account as may be furnished to fill the space not occupied by views, for \$800. This sum is larger than can be included in the ordinary expenditures for advertising, and I can only lay the proposition before you without recommendation.

The usual quarterly appropriation for the State Laboratory of Natural History should be made.

Also the regular semi-annual appropriations for current expenses, as shown in the estimates of the Business Agent.

Respectfully submitted,

SELIM H. PEABODY, *Regent*.

#### REPORT ON INSTRUCTION.

The Regent presented the following report:

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

GENTLEMEN: With regard to the appointment of professors, the special committee, appointed at the September meeting of the Board and consisting of the Committee on Instruction, the Executive Committee, and the Regent, makes this report. A meeting was held at the Doane house in Champaign, January 16, 1891, at the call of Mr. Bennett. Present, Messrs. McLean, Cobb, Bennett, and the Regent.

The Regent nominated Professor Charles M. Moss, of the Illinois Wesleyan University, to be appointed professor of the Greek language and literature in the University of Illinois. After a careful consideration of the financial situation, and of the qualifications of the nominee, authority was given to the Regent to make the appointment to the chair of Greek, with a salary at the rate of \$1,800 per annum when, in the judgment of the Regent, the existing temporary financial obstacles shall have been removed.

Professor Morrow appeared before the Committee on Instruction and presented his views as to the establishment of a new preparatory course especially arranged for farmers' children. The matter was laid over for farther examination.

Whereupon the Committee adjourned.

Respectfully submitted,

ALEXANDER McLEAN,	} <i>Committee.</i>
EMORY COBB,	
CHARLES BENNETT,	
SELIM H. PEABODY,	

#### DEGREES FOR ALUMNI GRADUATED WITH CERTIFICATES.

The Regent presented the following report from a special committee appointed at the December meeting:

*To the Trustees of the University of Illinois.*

GENTLEMEN: At the meeting in December, 1890, the undersigned were appointed a committee to consider the recommendations of the Regent in



his report at that meeting, touching the conferring of Bachelors' and Masters' degrees on students who graduated with certificates.

Your committee has considered the subject and respectfully reports the following resolution, with the recommendation that it be adopted by the Board of Trustees:

*Resolved*, That in the annual recommendations for Bachelors' and Masters' degrees to be conferred at commencement, the Faculty be, and hereby are, authorized to include in a special list, not to exceed in number in any year, the names of such certificated alumni, of not less than ten years' standing, as shall be found to have distinguished themselves in their several pursuits and professions in life.

Respectfully submitted,

S. H. PEABODY,	} Committee.
O. A. HARKER,	
CHARLES BENNETT,	

URBANA, March 10, 1891.

#### GROUND S FOR THE ATHLETIC ASSOCIATION.

The Regent presented the following report from the committee to which was referred at the December meeting the petition of the Athletic Association, asking that it be granted a portion of the north campus by the Trustees:

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

GENTLEMEN: Your committee to which was referred the petition of the Athletic Association for leave to use a portion of the north campus for an enclosure, for practice and exhibition of athletic games, respectfully reports:

The committee examined the grounds referred to, and other grounds on the University farm, and decided to permit the use of the north half of the north campus, as at first asked by the Association.

A formal permission to occupy the grounds guarded with such restrictions and penalties as seemed needful to the committee was drawn up, as is herewith reported. The association has not yet accepted the permission herein granted nor has it fulfilled the requirements thereof, and the permission still remains in the hands of the committee.

Respectfully submitted,

S. A. BULLARD,	} Committee.
O. A. HARKER,	
ALEXANDER MCLEAN,	
G. R. SHAWHAN,	
S. H. PEABODY,	

URBANA, March 10, 1891.

#### PERMISSION TO USE PART OF NORTH CAMPUS FOR ATHLETIC PURPOSES.

WHEREAS, The Athletic Association of the University of Illinois has petitioned the Trustees of the University of Illinois for leave to enclose and occupy for the purpose of conducting athletic exercises and games, a portion of the grounds belonging to the said University and under the control of said Trustees;

AND WHEREAS, The Trustees aforesaid at a meeting held in Champaign, on the ninth day of December, 1890, did refer the petition of said Athletic Association to a committee consisting of its standing Committee on Buildings and Grounds, S. A. Bullard, G. R. Shawhan, and O. A.

Harker, with Alexander McLean, President of the Board, and S. H. Peabody, Regent of the University, and by vote did confer upon the committee above named full authority to act in the premises;

AND WHEREAS, The committee aforesaid has carefully considered the petition referred to it and has examined the premises and the interests involved;

THEREFORE, It is determined by said committee and is hereby ordered as is hereinafter set forth.

The aforesaid Athletic Association has permission to enclose that part of the north campus lying between the continuation of the center line of White street of Champaign, and a line parallel thereto and 425 feet northward of said center line of White street; to occupy and use the premises so enclosed for the practice and exhibition of athletic exercises and games, and for no other purpose; to collect fees for admission to such enclosure when used for such exhibitions, and to have and use for the purposes of the Association the money so collected; upon the following conditions, viz.:

1. The enclosure shall be made at the expense of the Association by the erection of a tight board fence, not more than seven feet in height, substantially built of dressed lumber, with a suitable fillet at the top, the outside to be thoroughly and neatly painted; to be kept always in good order and repair, and to be kept free from all advertisements and signs, except those of the Association, which shall be restricted to bulletin boards especially provided for the purpose.

The construction and maintenance of the fence, and of any buildings which may be erected within the enclosure, and the cutting of any trees within the said enclosure, shall be subject to the supervision of this committee, or any committee or officer hereafter designated by the Board of Trustees.

2. The Association shall have the use of the ground aforesaid for three years from the first day of March, 1891, unless it shall sooner forfeit this privilege for reasons hereinafter set forth. At the end of the period of three years aforesaid the Trustees may grant further time of occupation or may require the Association to remove all its property, and restore the ground in as good condition as it is now in. If the Trustees refuse to grant further time for occupation after three years as aforesaid, or if they shall declare these privileges forfeited, as is hereinafter set forth, then it shall be the duty of the Association to remove its property and to restore the grounds in good condition within thirty days after it shall be directed so to do by the Board of Trustees; and if the property be not so removed, it shall become the property of the University, and the Trustees may take possession thereof and use it for the University.

3. The Athletic Association shall so modify its constitution as to permit all male matriculated students of the University to participate in its benefits; shall make its constitution and by-laws satisfactory to the Faculty of the University; shall not change them without the approval of that body; and shall keep a copy thereof on file in the office of the Regent.

4. The management of the grounds; the programs of all exercises and games had therein, whether in term time or in vacation; and the times and places of all games played elsewhere, except on Saturdays; shall be subject to the supervision of the Faculty of the University. The Regent and any member of such committee as the Faculty in this behalf may appoint shall at all times have free ingress into the inclosure and into any buildings or apartments erected therein.

5. No form of gambling, betting, or pool selling, under any device or pretense, may be permitted within this enclosure, or upon any grounds of this Association. The Association shall maintain a police force adequate to the control of the premises, either of its own numbers or otherwise. Any person who may make, or offer to make any bet or wager upon, or who may be known to have any bet or wager pending upon, any event which may transpire, or be expected to transpire, within the grounds of the Association shall be excluded therefrom, and if a member of the Association he shall thereafter be excluded from its privileges.

6. This Association shall not arrange for games or contests within this enclosure with clubs formed wholly or in part of professional players; provided that either this Association or the college or amateur club with whom it may for the time be in contest, may reinforce its strength by the employment of not more than two professional players upon each side. The term professional players is for the purposes of this document defined to mean a person who plays for hire, either habitually, or in the game or contest in which the Association is at the time concerned.

7. The Association may not let or lend these grounds for any purpose, nor use them for any purpose not hereinbefore set forth.

8. In case this Association shall either wilfully, or by neglect, fail to keep and observe the conditions hereinbefore stated, or shall commit or permit any act in the premises which is prejudicial to morality or good order, the Faculty of the University may suspend the privileges herein conferred, until the next meeting of the Board of Trustees; and the Board of Trustees of the University reserves to the University the right to determine the fact of such failure or misuse, and thereupon to reclaim and enter upon the premises aforesaid, and to direct the property of the Association to be removed.

Given at the University of Illinois, in Urbana, this fifteenth day of February, eighteen hundred and ninety-one.

S. A. BULLARD,	} Committee.
O. A. HARKER,	
ALEXANDER McLEAN,	
G. R. SHAWHAN,	
S. H. PEABODY,	

The Regent, on behalf of the Commercial Association of Champaign, tendered the Board of Trustees a public reception this evening at the City Building in Champaign, and the invitation was accepted.

Mr. McLean presented a petition, which had been signed by a large number of the students of the University, asking a review of the action of the Faculty in dropping Mr. Miller from the military class, and in suspending from the University Messrs. Steele and Pasfield.

On motion of Mr. Morgan, the petition was accepted for consideration.

It was voted that the President notify the students that they would be given a hearing on the matters set forth in the petition at 9 o'clock a. m. the next day.

On motion of Mr. McKay, the Board adjourned to 8 o'clock a. m. the next day.

### WEDNESDAY'S SESSION.

The Board met pursuant to adjournment, the same members being present as on the previous day.

The Business Agent, Professor Shattuck, presented his report, which was approved.

URBANA, ILL., March 10, 1891.

*Alexander McLean, President Board of Trustees, University of Illinois,*

SIR: I have the honor to hand to you herewith the financial statements due from me at this time.





Treasurer's Report—*Concluded.*

		<i>Dr.</i>			
1891.					
February 28	To am't rec'd on account	Griggs farm.....	\$845 58		
" " " " "	" " " " "	music fees.....	167 00		
" " " " "	" " " " "	University students' fees.....	3,660 00		\$8,157 89
					<u>\$39,877 28</u>
		<i>Cr.</i>			
1891.					
February 28	By amount paid on account	Board expense.....	\$144 16		
" " " " "	" " " " "	salaries.....	4,999 54		
" " " " "	" " " " "	buildings and grounds.....	44 84		
" " " " "	" " " " "	fuel and lights.....	1,240 27		
" " " " "	" " " " "	stationery and printing.....	178 62		
" " " " "	" " " " "	preparatory year.....	443 32		
" " " " "	" " " " "	Nebraska lands.....	88 17		
" " " " "	" " " " "	mechanical department.....	525 49		
" " " " "	" " " " "	architectural department.....	931 64		
" " " " "	" " " " "	agricultural department.....	303 58		
" " " " "	" " " " "	horticultural department.....	75 40		
" " " " "	" " " " "	military department.....	25 70		
" " " " "	" " " " "	laboratories.....	459 60		
" " " " "	" " " " "	library and apparatus.....	28 68		
" " " " "	" " " " "	incidental expense.....	83 13		
					\$9,570 14
	By amount paid on account	furniture and fixtures.....	\$171 68		
" " " " "	" " " " "	water supply.....	100 00		
" " " " "	" " " " "	new shop engine.....	11 21		
" " " " "	" " " " "	moving machine shop.....	225 67		
" " " " "	" " " " "	gymnasium.....	123 14		
" " " " "	" " " " "	coal and iron sheds.....	83 59		
" " " " "	" " " " "	music fees.....	167 00		
" " " " "	" " " " "	Griggs farm.....	50 73		
					933 02
		<i>State Appropriations—</i>			
	By amount paid on account	buildings and grounds.....	\$780 04		
" " " " "	" " " " "	mechanical and arch'l shops.....	710 91		
" " " " "	" " " " "	books and publications.....	225 92		
" " " " "	" " " " "	cabinets.....	174 84		
" " " " "	" " " " "	expenses of instruction.....	9,433 07		
" " " " "	" " " " "	apparatus and material.....	352 72		
" " " " "	" " " " "	metallurgical laboratory.....	323 45		
" " " " "	" " " " "	machine shop boiler.....	25 00		
" " " " "	" " " " "	State Laboratory of Natural History.....	1,140 08		
					13,166 03
	Balance.....				16,208 09
					<u>\$39,877 28</u>

Urbana, March 10, 1891.

JOHN W. BUNN. *Treasurer.*

The Board voted, on motion of Mr. McLean, to go into committee of the whole, with the President in the chair, to consider the petition from students.

About 4 o'clock p. m., the committee arose, reported progress, and asked leave to sit again.

The Regent obtained leave to present certain questions in relation to the subject of the students' petition.

During the sitting of the committee of the whole, Mr. Nelson W. Graham came in, and having presented his credentials and taken the oath of office, took his seat as a member of the Board.

Mr. Raab returned home at noon.

The recommendations of the Regent's report were then taken up.

On motion of Mr. Shawhan, the junior course in agriculture was approved as presented. [See p. 54.]

On motion of Mr. Morgan, the amended courses of study for the Colleges of Agriculture, Natural Science, and Literature and Science were approved. [See pp. 54 to 56.]

On motion of Mr. Shawhan, the teachers' course was approved as presented. [See p. 57.]

On motion of Mr. McLean, the Faculty received permission to arrange a course in electrical engineering, and print the same in the catalogue, it having first been approved by the Committee on Instruction.

On motion of Mr. Funk, it was voted that the builders' course, now offered, be dropped after one year's notice.

It was voted, on motion of Mr. McKay, that the fees now charged in the machine shops be discontinued, and that the students in the chemical laboratory be no longer charged for gas.

The Board then adjourned to meet at the Doane House, in Champaign, at 7 o'clock p. m.

#### EVENING SESSION.

The Board met at the Doane House, in Champaign, pursuant to adjournment, the same members being present as in the afternoon.

On motion of Mr. Shawhan, the Board appropriated from Station funds, for the current quarter, the amount asked for in Paper D, presented by the Board of Direction.

On motion of Mr. Funk, the amount asked for in the same paper was appropriated for the next quarter.

The appointments to the Station staff for the year beginning April 1, 1891, were confirmed on motion of Mr. Funk, the salaries to be as stated in the report.

On motion of Mr. McKay, the Station was given permission to use lands of the University as asked.

On motion of Mr. Shawhan, the Board of Direction was given authority, according to its request, to contract for importations of chemical and botanical supplies.

The Regent reported that, acting under authority given him at the last meeting of the Board, he had appointed E. K. Nelson an assistant in the chemical laboratory of the Station. The action was approved.

On motion of Mr. Funk, the trustees confirmed the action of the Board of Direction in appointing a committee to revise the list of experiments and to consider and decide upon propositions which had been presented relating to new work.

On motion of Mr. McLean, Mr. Funk was appointed a member of the Board of Direction for the ensuing year.

On motion of Mr. McKay, Mr. Cobb was appointed to the same board.

The Regent stated that Messrs. E. E. Chester, of Champaign; H. M. Dunlap, of Savoy, and H. B. Gurler, of DeKalb, stood approved by the Illinois State Board of Agriculture, the Illinois State Horticultural Society, and the Illinois State Dairymen's Association, to represent these bodies, respectively, upon the Board of Direction of the Experiment Station, and they were appointed members of that board on motion of Mr. McKay.

Professors Morrow and Burrill and Mr. Farrington were appointed members of the Board of Direction.

The Regent was appointed a member of the Board of Direction and also its president.

On motion of Mr. Shawhan, Messrs. Cobb and Chester were named as the members of the Board of Direction, who should, with the Regent as chairman, constitute the Executive Committee of the Station.

On motion, \$73.04 was appropriated from the metallurgical laboratory fund to pay balance unpaid of expense incurred in setting assaying furnaces.

On motion, there was assigned from the state appropriation for buildings and grounds:

For care of grounds and cinder walk through the arboretum.....	\$300 00
For current repairs.....	209 40
Total .....	\$509 40

On motion of Mr. Shawhan, \$100 was appropriated for making the connections of the new engine in the machine shops, the balance of the state appropriation for a new boiler to be used in this way, and the rest of the \$100 to come from the state appropriation for the shops.

On motion of Mr. Morgan, \$200 was appropriated from current funds for commencement expenses.

On motion of Mr. Shawhan, authority was granted to publish 6,000 copies of the next catalogue.

The proposition of the Chicago Graphic Company, which the Regent had referred to the Board, was declined on motion of Mr. McLean.

On motion of Mr. McLean, there was appropriated for the use of the State Laboratory of Natural History for the next quarter:

For field work, office and incidental expenses.....	\$250 00
For salaries and assistance.....	750 00
For improvement of the library.....	125 00
	\$1,125 00



On motion of Mr. McLean, appropriations were made for the University expenses for the next six months as follows, in accordance with the estimates of the Business Agent:

Board expenses .....	\$300 00
Salaries for instruction .....	26,070 00
Salaries for services .....	2,250 00
Building- and grounds .....	100 00
Fuel and lights .....	1,000 00
Stationery, printing, advertising, etc .....	1,300 00
Library and apparatus .....	50 00
Incidental expenses .....	200 00
Mechanical department .....	200 00
Architectural department .....	200 00
Agricultural department .....	200 00
Horticultural department .....	100 00
Military department .....	50 00
Laboratories .....	200 00
Water supply .....	200 00
Furniture and fixtures .....	200 00
Moving machine shop, balance .....	90 81
Gymnasium .....	117 71
	<hr/>
	\$32,828 52

On motion of Mr. McLean, it was voted that all moneys which may be received from the United States through the State Treasurer, pursuant to the provisions of the Morrill college aid act, be administered as a special fund, distinct from all other moneys in the University treasury; and that all moneys paid out of this fund be paid pursuant to distinct appropriations therefrom, which shall so clearly specify the purposes for which the moneys are to be used, as to show that they conform strictly to the requirements of the act of congress under which the money comes to the University.

On motion of Mr. McKay, the first installment of the college aid fund was assigned as follows:

Salaries .....	\$7,500 00
Electric laboratory .....	2,500 00
Mechanical laboratory .....	1,000 00
Chemical laboratory .....	1,000 00
Civil engineering .....	500 00
Botany and physiology .....	500 00
Natural history collections .....	2,000 00
	<hr/>
	\$15,000 00

On motion of Mr. McLean, the Business Agent and Professors Palmer and Parr were authorized to procure bids for apparatus and supplies to be imported for the chemical laboratory, and to contract for the same upon a satisfactory bid—the total expenditure to be limited to \$1,200.

The Regent stated that it was only within a few days that affairs had assumed such a shape that he could, in compliance with the order of the special committee on instructors, as set forth in its report [See p. 68], conclude the appointment of Professor C. M. Moss to the chair of Greek; and that in deference to the Board, which was so soon to meet, action had been delayed.

On motion of Mr. McKay, Professor Moss was appointed professor of the Greek language and literature, at a salary of \$1,800, the appointment to be for the rest of the college year ending Aug. 31, 1891.

Mr. Shawhan moved that in the resolution reported by the committee on granting degrees to students who had graduated with certificates, the blank be filled by inserting the word "ten," and the motion was adopted.

He then moved that the resolution be adopted.

Mr. Morgan moved to amend by striking out all after the word "found" in the last sentence and inserting in the place thereof the words "in the opinion of the Faculty to have merited this distinction from the University." The amendment prevailed, and the original resolution was adopted as amended.

It reads as follows:

*Resolved*, That in the annual recommendations for Bachelors' and Masters' degrees to be conferred at commencement, the Faculty be and hereby are authorized to include in a special list, not to exceed ten in number in any year, the names of such certificated alumni of not less than ten years' standing as shall be found in the opinion of the Faculty to have merited this distinction from the University.

On motion of Mr. McLean, the President and Secretary of the Board were authorized to give from time to time the Treasurer of the University orders under the corporate seal of the University, directing the Auditor of Public Accounts to draw his warrant upon the State Treasurer for such sums as he has received, or may hereafter receive, from the U. S. treasury for this University under the provisions of the act of congress approved August 30, 1890.

On motion of Mr. McLean, it was

*Resolved*, That the Treasurer of the Board of Trustees of the University of Illinois is hereby authorized to receive, and receipt for all moneys, and to endorse all orders, drafts and checks due and payable to the said Board of Trustees, or to the said University of Illinois, and especially all drafts drawn by the Treasurer of the United States, payable to said Board of Trustees or to said University of Illinois on account of the Agricultural Experiment Station of the said University.

The following resolution, introduced by Mr. Morgan, was adopted on motion of Mr. McLean:

WHEREAS, It is anticipated that the legislature at its present session will, in addition to the usual appropriations for the support of the University of Illinois, appropriate a special fund of eighty thousand dollars for the purpose of erecting and equipping a building for natural history, and

WHEREAS, The legislature should receive the strongest assurances, from the Trustees that such a very considerable sum of money will be expended with great care and economy. Therefore, be it

*Resolved*, That, if such special fund is appropriated, the adoption of plans for the proposed buildings and the letting of contracts for their construction shall be done by the committee of the whole of the Board of Trustees and not otherwise.

Mr. Shawhan presented the following resolution which was adopted:

*Resolved*, That the thanks of this Board be extended to Alexander McLean for the uniform kindness, courtesy, and geniality with which he has presided over the meetings of this Board during his term of service as President.

The following resolution, introduced by Mr. Morgan, was adopted, and the Secretary was instructed to send a copy to the President of the Association:

*Resolved*, That this Board of Trustees extends its hearty thanks to the Commercial Association of Champaign for its very polite and pleasing social attentions.

#### STANDING COMMITTEES.

The President reported the committees as follows:

*Executive*.—Bullard, Cobb, Funk.

*Farm*.—Cobb, Funk, Bryant.

*Buildings and Grounds*.—Shawhan, Graham, McLean.

*Finance*.—Morgan, Clemens, Graham.

*Instruction*.—McKay, Shawhan, Raab.

*Publications*.—President, Regent, Corresponding Secretary.

*Library*.—Regent, Business Agent, Librarian.

Mr. Shawhan moved that Mr. Bullard's name be substituted for his at the head of the Committee on Buildings and Grounds, and the motion was adopted.

Mr. McLean moved that Mr. Graham be substituted for himself on the Committee on Buildings and Grounds. The motion was lost.

The Board adjourned to meet in the University Parlor at 8 o'clock a. m. the next day.

#### SESSION OF THURSDAY.

The Board met in the University Parlor pursuant to adjournment, the same members being present as on the preceding evening.

The Finance Committee made the following report which was adopted on motion of Mr. Graham:

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

GENTLEMEN: Your Finance Committee reports that it has examined the report of the Business Agent and the vouchers submitted therewith, numbered from 226 to 500, inclusive, and finds them correct and properly receipted.

We have also examined the vouchers of the Experiment Station numbered from 826 to 895, inclusive, and find them correct.

Respectfully submitted,

F. M. MCKAY, }  
S. A. BULLARD, } *Finance Committee.*

The Finance Committee made the following report which was adopted on motion of Mr. Morgan:

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

GENTLEMEN: Your Finance Committee reports that it has examined the report of John W. Bunn, treasurer, for the quarter ending March 1, 1891, and finds it correct, and that there are funds in the hands of the treasurer amounting to \$16,208.09.

Respectfully submitted,

F. M. MCKAY, } *Finance Committee.*  
S. A. BULLARD, }

The following minute was made with regard to the students' petition and the subjects to which it related, and the Secretary was instructed to give a copy of it to the Faculty and another copy to the committee of the students.

In the matter of the petition, or protest, filed by a committee appointed by a number of the students of the University, setting forth certain grievances and asking relief therefrom, the papers were taken up by the Board in response to said request, and, due notice having been previously given to said committee of students and they being then present, the matters of difference were thereupon formally presented and considered.

Whereupon said committee of students presented their case in regular form as to the issues joined therein.

The Regent, together with the Vice-President of the Faculty, the deans of the faculties of the several Colleges of the University, and Professor Shattuck, made a statement touching the matters in controversy.

And thereupon the Board of Trustees, after careful investigation, and being fully advised in the premises found as follows:

1. That the joint resignations, as set forth in the complaint, were presented to the Regent, but that, time being limited, the matter could not be immediately considered in a proper manner by the Regent and the Faculty.

That the students, acting immediately upon said resignations, thereby caused, unintentionally, the confusion which ensued thereafter.

In view of these facts, we find that it was impossible to adjust properly or to consider the same; and we therefore deem that the resignations were not submitted in proper form or time for official action.

2. We also find that students Steele and Pasfield were suspended in proper form and at a regular meeting of the Faculty, and that due notice of this action was given to the said students; and that said action of said Faculty is still unrescinded by them and stands upon their records.

Now in view of the circumstances surrounding the matters of dispute, and after a full investigation of the facts as presented, we find that the "rules for the government of students of the University" have been enforced with reasonable uniformity, and impartially by the Faculty.

We also find that the rules aforesaid were not generally known or understood by the students.

We therefore consider their action more the result of ignorance of said rules than of a vicious desire to violate any law of the University; and that this is, in a great measure, a mitigation of the offense. We feel it our duty to state that the Faculty, so far as we can ascertain from an examination of their records, acted in good faith and in accordance with the rules and regulations issued by authority of the Trustees.

We therefore deem it proper to state that, so far as we can ascertain, the complications alluded to in said petition were the result, in a large measure, of an imperfect knowledge of the rules aforesaid and not of a desire to violate any known laws of the University.

We understand that student Miller is now prosecuting his studies with a view to be restored to the military class, in accordance with the advice of the Faculty; therefore we do not consider it necessary to report further on his case.

We recommend to the Faculty that students Steele and Pasfield be restored to their former positions at the end of the present term.

We further recommend that a committee be appointed by this Board to revise the rules and regulations for the government of students of the University and to report the same at the next meeting of the Board of Trustees; and that said rules, when duly adopted by the Board, be printed in large type and put upon suitable bulletin boards in conspicuous places in the several halls of University Hall, for the inspection and government of all concerned.

It was moved and carried that when this Board adjourns it adjourn to meet Friday, April 10th, at the hour of 10 o'clock a. m., at the Grand Pacific Hotel, in Chicago; and that the Secretary be requested to notify each member of the Board that his presence is necessary on account of important business.

Messrs. Funk and Morgan were added to the committee on legislation in place of Messrs. Bennett and Harker.

The Board then adjourned to meet at the Grand Pacific Hotel, in Chicago, at 10 o'clock a. m. Friday, April 10, 1891.

W. L. PILLSBURY,

*Secretary.*

S. A. BULLARD,

*President.*

#### ADDITION TO RECORD OF MEETING OF MARCH 10, 1891.

##### SPECIAL REPORT UPON THE ACTION ON MILITARY AFFAIRS.

At the first Faculty meeting of the current winter term, January 12, 1891, the usual list of students who had failed in examination at the end of the preceding term was under consideration. Among them was W. G. Miller, of the junior class, whose standings were found to be as follows: In analytical mechanics, 65, or a failure; in mechanism, 75; in chemistry, 76; in military science, 80. It was evident that this standing was far below that required by the rules (*Rules, Ed. Dec. '89, p. 12, par. 3, and p. 6, par. 4.*) for continuation in military command. It was then voted that "W. G. Miller be allowed to go on but not in Military." *Records, Vol. 3, p. 51.*

At the next meeting, January 19th, Miller presented a petition asking re-examination in the subject in which he had failed, and for leave to continue his military studies and command. The Faculty voted that "W. G. Miller (be) allowed re-examination in mechanics." The motion to allow him to continue in military class, and as an officer, was made and was "laid on the table until his examination is held." *Records, Vol. 3, p. 52.*

At the next meeting, January 26th, report was made that Miller had been re-examined, and had passed in a grade of 75. The motion made at last meeting was taken from the table, and when put to a vote was lost. *Records, p. 54.*

Miller's standings were then 75, 75, 76, and 80, average, 76.5, or in "other University studies" (see rule) 75.3. This motion having been lost, Miller was left in the condition determined by the vote of January 12th, already referred to.

It is urged that the rule here applied to Miller was heretofore a "dormant" rule. The contrary is the fact. The rule has been under consideration in a great number of cases, but there has never been a case so strong as this. Whichever way the grades are considered, that is, as related to "other University studies" only, or as including military science, the standings were respectively only three-tenths of one per cent., or only one and one-half per cent. above the very lowest which could enable the student to remain in the University, saying nothing about retaining the honor of holding position as captain in the battalion.

The records show that during the last year (1890-91), while the Regent was absent, several students were required to make up standings before they were allowed to proceed in military command, and the following:

"M. J. Morehouse, failed, allowed to go on, *but not in military.*"

"A. Lewis, failed, allowed to go on, *but not in military.*"

A synopsis has been made from the records, and is believed to contain the average grades of all military students, or in command, taken term by term, including the term before admission into the class was granted. No other example of an average grade less than 80 per cent. appears upon this list, except in one case, that of Judson F. Going, in the fall term of 1882, when his average was 79.2. The Faculty records of January 5, 1883, contain this entry: "Rules for military standing suspended for present term in case of J. F. Going, *on account of ill health.*"

In other cases, where a student has failed in a single subject, and so obtained a low rank, the Faculty has used the discretion which it believed lay within its power, to suspend the rule when individual cases seemed to deserve it. But in these cases an examination of the records shows that the standings in other subjects, aside from that in which the failure occurred, was notably high. Here are examples covering all the cases in the last year, 1889-90:

Student	Failed in one study	Other average
E. B. Clark	Failed in one study	90.5.
Charles A. Gunn	" " "	93.5.
James P. Hubbell, fall term	" " "	93.3.
James P. Hubbell, winter term	" " "	93.3.
Alfred Locke, spring term	" " "	91.6.
G. W. Seaman, winter term	" " "	89.
J. W. Lockhart, winter term	" " "	90.6.

In the summer term of 1890 some persons failed, but they were not allowed to go on, and be appointed to command in the battalion until their failures had been made up, except in case of A. Locke, whose average standing in spite of his failure was over 85 per cent. Inspection of the list shows that the standing of the military men has been exceptionally high. It could hardly be otherwise, as the method of their selection makes them picked men, starting in their military course on condition of high standings.

The Regent has personally inspected and reported to the Faculty upon the standings of every military class organized during the last ten years, except that of 1890, which was admitted while he was absent from the University on leave. In many cases students have been denied admission but it has not been deemed advisable to make such denial a matter of record to stand against the student.

The rule has always been a living and vital rule. The Faculty, seeing that a case could hardly be made more conclusive than that of Mr. Miller, believed itself compelled to act, as inaction would result in a complete abrogation of the rule, which it deemed neither desirable nor within the scope of its authority.

The 2nd of February a petition was presented to the Faculty bearing the names of eight junior officers and fourteen sophomore officers, the petition being as follows:

We, the undersigned, members of the military class of the University of Illinois, do hereby protest against the removal of W. G. Miller from membership in the junior military class and from his position as captain of Co. "E," and request his reinstatement on the following grounds:

*First*, There are many precedents, several of them being in the present military class, where failure in examination has not been made the cause of removal from the class.

*Second*, That he has incurred considerable expense in procuring text books and uniform.

*Third*, We believe that having satisfactorily fulfilled all the requirements of the military course up to the present time, he ought to be allowed to continue for the short time remaining—one term—in the course.

*Fourth*, The University owes it to the military students not to make the conditions so difficult as to prevent a sufficient number in taking the course in military science, from performing the duties required of them in connection with their regular work.

#### JUNIOR CLASS.

Charles A. Gunn,  
P. T. Burrows,  
G. L. Pasfield,  
A. L. Pillsbury,

J. K. Barker,  
E. S. Scheidenhelm,  
James Steele,  
J. P. Hubbell.

#### SOPHOMORE CLASS.

Alfred Locke,  
C. W. Carter,  
C. D. Brownell,  
J. S. Davis,  
Harlow Bacon,  
A. D. Thompson,  
F. M. Spalding,

Ed. C. Craig,  
W. J. Graham,  
B. V. Swenson,  
R. C. Vial,  
W. H. Cornell,  
M. A. Earl,  
A. W. Rea.

This petition received careful consideration. The Faculty believed that the granting of its prayer would be virtually rescinding the rule, and continued to think this action neither desirable nor within their authority.

Accordingly the Faculty made answer thereto in the following resolution:

*Resolved*, That the Secretary be instructed to inform the petitioners in the case of Mr. W. G. Miller, that the Faculty have carefully considered their communication and regret, that under the rule of the University concerning the scholarship record of the military class, they deem it unwise to modify their action in his behalf. *Records, Vol. 3, p. 55.*

The morning of February 3rd this answer was given in writing, by the Secretary of the Faculty, to Mr. Charles A. Gunn, whose name appeared first on the petition.

After the "assembly" had been blown, as call for chapel, the morning of February 3d, and while the halls were full of students, Mr. Gunn, before named, handed to the Regent the following paper, signed by six captains and twelve sergeants. One other captain and three other sergeants handed in resignations individually during the same day.

We, the undersigned, do hereby resign our positions as officers and non-commissioned officers of the University battalion, and as students in the

military department, the resignation to take effect at once. This resignation is final unless W. G. Miller is reinstated in his former position.

## JUNIORS.

Charles A. Gunn,  
A. L. Pillsbury,  
J. P. Hubbell,

James Steele,  
E. S. Scheidenhelm,  
G. L. Pasfield.

## SOPHOMORES.

B. V. Swenson,  
J. T. Stewart,  
F. M. Spalding,  
R. C. Vial,  
A. W. Rea,  
C. D. Brownell,

J. S. Davis,  
Alfred Locke,  
A. D. Thompson,  
H. Bacon,  
M. A. Earl,  
C. W. Carter.

## AFTERWARDS WERE ADDED THE NAMES OF

J. K. Barker,  
E. C. Craig,

W. H. Cornell,  
W. J. Graham.

Immediately upon reading the paper handed him, and learning its import, the Regent went to the halls with the purpose of finding Mr. Gunn first or any of the officers, and telling such persons that they must take care of their companies, and continue on duty, until such times as their resignations could be placed before the Faculty for action. Great confusion and disorder reigned in the halls, and no officers could be seen. The Regent instantly improvised officers from the first professors and instructors that he could find and the students were led into chapel, where the usual exercises were conducted.

That afternoon, at 4 p. m., a meeting of the Faculty was convened, and the officers concerned were called to attend. The captains were heard by themselves, the sergeants by themselves; more than three hours being consumed in the session. Believing that the young men had been misinformed and that their opinions had received opportunity for correction, and hoping that the good sense and judgment of the students, which had been strongly appealed to, would be awakened and would prevail, the Faculty deemed it best to postpone further consideration, and adjourned without action to meet at the call of the Regent. It ordered suspension of chapel and drill until farther notice.

Thursday morning, Mr. Miller called upon the Regent to inquire as to his future, and whether any way was open to him, hereafter, by which he could regain his place. The Regent answered him that under the rule there could be no reason why, if he should present himself with the requirements there stated, at the beginning of the next term, he might not be re-admitted to the military and to command. That the subsequent steps to complete his military course could be taken as in a case referred to, where a student who had lost time had had full opportunity to make up all deficiencies, and finally earned and received his commission. Mr. Miller expressed his satisfaction at the outline presented. And this opportunity should be taken to say that under these very trying circumstances Mr. Miller's conduct in regard to the trouble which seems to have centered in him, has been in the highest degree courteous and commendable.

Friday, February 6th, two students, Messrs. Scheidenhelm and Thompson, called on the Regent, as a committee from the classes, asking "if the Faculty had any terms to offer, or any compromise to make." The Regent replied that he knew of none: that the Faculty considered the class in revolt, and could not make terms with them while in that attitude.

The meeting of the Faculty had been adjourned to meet at the call of the Regent. Saturday, 7th, some members urged the Regent to call a meeting that afternoon, at which decisive action should be taken. The



Regent declined to do so, on the ground that a tacit understanding had gone out that no action would be taken before Monday, and that if the students, or any of them, should be disposed to retract before that time they should have the opportunity. That even a tacit understanding was sacred, and should be fully observed.

Monday, February 9th, Capt. Barker came to the Regent, representing himself to be a committee, and proposed that if Mr. Miller could be re-instated as captain under the "emergency" clause the students would withdraw their opposition. The Regent expressed his opinion that the Faculty would not undertake to make terms, and advised Mr. Barker, personally, to withdraw his resignation, which he then did. This was but a few moments before the convening of the Faculty meeting at the usual hour.

Soon after the Faculty met; two papers were passed in by the Regent's Secretary, which had come from the students. They are as follows:

UNIVERSITY OF ILLINOIS, February 9, 1891.

*To the Faculty.*

We, the undersigned, acting for the military class, withdraw the condition which was attached to the resignations handed in last Tuesday.

Chas. A. Gunn,  
J. P. Hubbell,  
Harlow Bacon,

A. L. Pillsbury,  
W. J. Graham,  
R. C. Vial,

E. S. Scheidenhelm,  
F. M. Spalding,  
C. W. Carter.

CHAMPAIGN, ILL., February 9, 1891.

*To the Faculty.*

GENTLEMEN: The two military classes, at their meeting to-day, voted to submit to you the following proposition as a settlement of the present difficulty, and hope that it may receive your favorable consideration.

"That Mr. Miller be appointed as captain for the rest of the term, or longer, under that clause of rule 4, which reads as follows: 'In an emergency, students, others than those specified in rule 3, may be appointed to command.' Also that he be allowed to take an examination, or otherwise make up this term's work in military science, as soon as he has complied with the rules regulating such matters."

E. S. SCHEIDENHELM, *Committee.*

The Faculty did not deem the withdrawal of the condition originally attached to the resignations, as covering the case. It did not at all alter the fact, that the resignations had been made by concerted action in order to coerce the Faculty to adopt a line of action which the students had outlined for themselves; that the resignations had been instantly followed by desertion of posts, in the face of duty, to the great detriment of the University, producing disorder and riotous behavior. The idea that the sergeants were the only ones to be blamed, and that the captains were in their places ready to take charge of their companies is an afterthought, and is not warranted by the facts, as observed at the time.

The question before the Faculty was not whether the men might not, in an orderly way, present their resignations, waiting on duty until their requests could be acted upon, and deferring even then to the judgment of the Faculty as to whether the good of the service would permit the officers at once to retire. The acts of the students must be considered in the light of all the surrounding circumstances, and the resignations, though less offensive when the condition was removed, had remaining about them enough of evil circumstance to forbid the Faculty from accepting them.

Still there remained a doubt as to the real sentiments of the young men, many of the Faculty believing that some, if not all, were truly of the opinion that they had committed an error, and an offence, which they would gladly retract, if they could see a way to do so.

Accordingly it was agreed to suspend action for another day, and the following order was passed:

"Voted, That the Regent be requested to announce to the members of the military class that no compromises or conditions will be accepted; and that the withdrawal of their resignations in writing must be filed in the Regent's office before 3 o'clock p. m., Tuesday, February 10th." *Records, Vol. 3.*

The Regent, having asked the Vice-President, Professor Burrill, to sit with him, called individually the captains; and because time would not permit individual conference with the sergeants, he saw them in a body. He endeavored kindly but firmly to convey to the gentlemen the wish of the Faculty. When asked what alternative would follow if this wish should not be complied with, he declined to formulate any alternative, but urged that the Faculty depended on the good sense of the members of the military class to see their opportunity for a favorable conclusion of the whole matter.

Any statement that the matter was entrusted by the Faculty to the Regent for settlement is untrue.

Any statement that Messrs. Steele and Pasfield, or either of them, offered to "withdraw their resignations, provided they would be permitted to resign in any appropriate form the Regent might deem proper," and that they "were denied" this privilege, is equally and wholly untrue. The entire day was spent in this effort to bring the young gentlemen to withdraw the offensive action they had taken on February 3d.

As a result, all did withdraw in writing that action, except James Steele and George L. Pasfield. When the Faculty again convened, at 4 o'clock on February 10th, the Regent reported the written answers which he had received, and the replies of the two persons who still stood out. The Faculty then proceeded to pass a resolution suspending Steele and Pasfield from the University for the remainder of the current year, and directing them not to be or remain at the University during the time that they were so suspended. *Records, Vol. 3, p. 56.*

Wednesday evening, February 11th, a meeting of students was called in the Champaign Opera House. The Regent believes that no member of the Faculty attempted in any way to interfere with, or to attend that meeting. The results of that meeting have never been served upon the Faculty. So far as rumor goes they were—a petition to the Trustees, some resolutions which found the light in the Sunday Herald of March 8th, and a resolution concerning military affairs in the future, which has been carefully kept from the public.

The 23d of February a communication from James Steele was received, asking permission to come to the University on business; answer was made that as the case had been appealed to the Trustees—information of a positive nature having been received as to that fact—the Faculty did not think best to consider any modification of their action until said appeal had been heard and acted upon. *Records, Vol. 3, p. 59.*

At the meeting of the Faculty February 11th, the Regent was directed to communicate to Captain P. T. Burrows the satisfaction of the Faculty with his manly adherence to duty during the recent difficulties, and this was done. *Records, Vol. 3, p. 57.*

In the foregoing account no attempt has been made to give other than a statement of the facts, in the order in which they have occurred, with the dates, and extracts from the records of the Faculty, and such brief statements of reasons as seem to be absolutely necessary, leaving out all argument and special pleading.

Some of these questions are pertinent:

Did the Faculty of the University of Illinois, in the case of W. G. Miller, do anything more than was required by the rules of the University, approved and established by the Trustees?

Were the students right in attempting to reverse the action of the Faculty, and to abrogate the rules, by the method of strike and revolt?

Was the Faculty right in disciplining and suspending those who, after earnest and kindly remonstrance, insisted in maintaining their attitude of revolt and insubordination?

Where does the discipline of the University lie? Who is responsible for its enforcement?

Respectfully submitted,

S. H. PEABODY, *Regent.*

---

ADJOURNED SESSION, FRIDAY, APRIL 10, 1891.

---

The Board of Trustees of the University of Illinois met, pursuant to adjournment, in parlor 23 at the Grand Pacific Hotel, in Chicago, Illinois, at 10:30 o'clock a. m., Friday, April 10, 1891. A call of the roll showed that of the members of the Board there were present Messrs. Bullard, Funk, Graham, McLean, McKay, Morgan, Raab and Shawhan: absent, Governor Fifer and Messrs. Bryant, Clemens and Cobb.

On motion of Mr. Raab, Mr. McLean was added to the Committee on Finance.

The President presented a communication from the committee of the students and the class presidents expressing their grateful approval of the action of the Trustees regarding the military troubles. On motion of Mr. Funk, the communication was received and filed.

The Secretary presented a copy of the opinion of the Supreme Court in the Foster North case. The court refuses to issue a writ of mandamus as prayed by North, and sustains the action of the Faculty and the Trustees in the premises.

A communication in writing was received from William Burnett offering \$9,000 for the Griggs farm, the University to retain the present year's rent. On motion of Mr. Funk, it was voted that Mr. Shawhan, through whom the offer was made, report to Mr. Burnett that the Board does not wish to sell the farm.

On motion of Mr. Shawhan, Dr. Peabody's bill of \$76.39 for traveling expenses was allowed and ordered paid.

The President presented a communication signed by some fifty-seven of the alumni and former students of the University, now living in Chicago, expressing their approval of the present administration of the University.

The President stated that the Athletic Association of the University wished to present a statement of the amounts it would be necessary to expend in fitting up the grounds which the Trustees had assigned for its use. Permission being given, Mr. John N. Chester described in detail what the association proposed to do and what the work would cost.

On motion of Mr. Shawhan, it was voted that \$350 be appropriated to fill and grade the north part of the north campus.

On motion of Mr. McLean, it was voted that the expenditure of this money and the supervision provided for in paragraph No. 1 of the article giving the Athletic Association permission to use part of the north campus be entrusted to the Committee on Buildings and Grounds, and that Professor Burrill be made a member of the committee in the discharge of this duty.

On motion of Mr. McLean, it was voted to go into executive session on the election of a Regent.

At the end of the executive session, during which an election of a Regent had not been made, the Board adjourned.

S. A. BULLARD, *President*.

W. L. PILLSBURY, *Secretary*.

## MEETING OF JUNE 9, 1891.

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, Illinois, at 4:30 o'clock p. m., Tuesday, June 9, 1891. The members present were Messrs. Bullard, Bryant, Cobb, Funk, Graham, McKay, McLean, Morgan, Raab and Shawhan; absent, Governor Fifer and Mr. Clemens.

On motion of Mr. Raab, the reading of the minutes of the last meeting was dispensed with and the minutes were approved.

On motion of Mr. Cobb, the Board proceeded to the election of a regent.

Mr. Cobb nominated Dr. Selim H. Peabody for the place. The roll was called on the nomination and the vote stood as follows: Aye—Cobb, Funk, McLean, Raab, and Shawhan—5. No—Bullard, Bryant, Graham, McKay, and Morgan—5. And there was no election.

The Regent, Dr. Peabody, was then asked to present his report.

## REGENT'S REPORT.

*To the Trustees of the University of Illinois:*

GENTLEMEN: The twenty-fourth year in the history of the University now draws to a close; the twentieth class comes to its graduation, the largest class since the beginning, numbering forty-nine members, and representing all departments of instruction.

I have to present the following list of persons recommended by the Faculty for the various degrees to be conferred, and to request that you will approve the recommendations.

## DEGREES, CERTIFICATES, AND COMMISSIONS.

The Faculty recommends that degrees be conferred on commencement day, as shown by the following list:

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

Frank Duane Gardner.

| Clarence Albert Shamel.

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

*Course in Mechanical Engineering.*

Willard Albion Boyd.  
Fred Lyle Bunton.  
Ora Deal McClure.

| Lorin William Peabody.  
Frederic William Richart.  
Ross Strawn Wallace.

*Course in Civil Engineering.*

John Needels Chester.  
Edward Charles Eidmann.  
Frank Harvey Eno.  
John Henry Frederickson,  
Charles Gibson.  
Jay Tarven Harris.

Alfred Ernest Harvey.  
Walter Morris Hay.  
Charles Jacob Mitchell.  
John Henderson Powell.  
Charles Davis Vail.

*Course in Architecture.*

Ernest Newton Braucher.  
Edward Besançon Clarke.  
Frederic Woodruff Clarke.

Ransford Morton French.  
Walter Francis Shattuck.  
Charles B. Young.

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

*Course in Chemistry.*

Thomas Barclay.  
Dick Hubert Chester.

Franklin Oscar Smolt.

*Course in Natural History.*

Alice Virginia Broadbuss.  
Thomas Stephen Green.

Emma Effie Seibert.  
Joseph Samuel Terrill.

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

*Course in English and Modern Languages.*

Helen Eliza Butterfield.  
Anna Carson.  
Nellie Margaret Darby.  
Hans Frahm.  
Opal Beatrice Heller.

Mabel Jones.  
Wirt McCormick.  
August Maue.  
Clara Myers.  
Anna Fletcher Shattuck.

*Course in Ancient Languages.* Degree of Bachelor of Arts.

Thomas James Howorth.

## CERTIFICATES FOR COURSES OF THIRTY-SIX STUDIES.

Laura Mae Beach.  
Charles Sherman Bouton.  
Lawrence Fischer.

Glen Moody Hobbs.  
Isabella Eliza Jones.  
Sarah Mariena Paine.

The following advanced degrees:

Albert F. Robinson .....	Class of 1880 .....	Civil Engineer.....
Mark Fergusson. ....	1887 .....	
Charles H. Shamel .....	1890 .....	Master of Science.....
Benjamin Binz .....	1888 .....	
George W. Myers.....	1888 .....	Master of Literature.....
Harriet (Boggs) Love .....	1883 .....	Master of Arts.....

Honorary degrees conferred upon alumni having certificates of more than ten years' standing:

James N. Mathews.....	Class of 1872.....	Master of Literature .....
Fred L. Hatch .....	1873.....	Master of Science.....
Henry E. Robbins.....	1873.....	" " .....
Henry M. Dunlap .....	1875.....	" " .....
Winfield B. Everhart.....	1875.....	Master of Literature.....
Clarence O. Scudder .....	1875.....	" " .....
Frank A. E. Starr .....	1876.....	" " .....
Charles G. Elliott .....	1877.....	Civil Engineer .....
Avis E. Smith.....	1877.....	Master of Science.....
Roland R. Conklin.....	1880.....	Master of Literature.....

The following having completed their courses in military science, have been recommended to the Governor of the state, and have been honored by him with commissions by brevet as captains in the Illinois National Guard:

Frank Harvey Eno.  
Alfred Ernest Harvey.  
Edward Besançon Clarke.  
Frederic Woodruff Clarke.

Ora Deal McClure.  
Franklin Oscar Smolt.  
Ross Strawn Wallace.  
Charles Davis Vail.

The affairs of the University, as concerned by legislation still pending in the General Assembly, are as follows:

The askings for the University were duly presented in the two houses of the General Assembly. Sub-committees from the regular appropriation committees visited the University, and representatives of the University presented statements of its needs to the full committees at Springfield. The Senate passed the bill with only slight reductions. The reductions made by the House committee on appropriations were more serious; they have been approved by the House. The bill has passed second reading, and will undoubtedly pass the House and be concurred in by the Senate in its present form. [It was so passed, and was concurred in by the Senate June 11th]. The bill as it stands is the largest ever passed for this institution. While some of the reductions are in sensitive places which give annoyance, the two most important items, that for expenses of instruction, and that for a new building remain as asked, and are substantial subjects for congratulation. The bill provides as follows:

For taxes on Minnesota lands, for two years.....	\$3,200 00
For repairs and improvements, for two years.....	5,000 00
For maintenance of shops, for two years.....	3,000 00
For apparatus and material, for two years.....	3,000 00
For books and publications, for two years.....	2,000 00
For collections of natural history, for two years.....	1,000 00
For general account of instruction, for two years.....	40,000 00
For heating military hall.....	3,500 00
For rebuilding barn.....	2,500 00
For furniture.....	1,000 00
For natural science building.....	60,000 00
For heating and furnishing same.....	10,000 00
Total.....	\$134,200 00

of which \$70,600 will be available July 1, 1891, and \$63,600 July 1, 1892.

The General Assembly also passed an act giving assent to the purposes of the congressional act of August 30, 1890, known as the Morrill college aid bill, and appropriating any moneys which might come into the hands of the State Treasurer before July 1, 1893, to the University of Illinois. This action is in accordance with suggestions made orally by the Attorney General of the state and reaches forward to the extent of the authority of the present legislature. Pursuant to the provisions of congressional and state acts, the first installment, of \$15,000, has been received by the University Treasurer, and has been put to use in accordance with your directions given at the meeting in March. In response to official inquiries made for the Secretary of the Interior by the Commissioner of Education I have reported to him the disposition made of this \$15,000, and I have received assurance that the second installment, \$16,000, will be forwarded shortly. It is evidently understood by the officials at Washington who have charge of disbursements under the act in consideration, that each institution must make a report satisfactory to the conditions of the law, upon the uses made of the money received under one disbursement before another disbursement or installment will be paid over.

The appointments made possible by reason of the increased funds of the University, and authorized by you, have all been made, except to the chair of mining engineering. For this negotiations are still pending. The gentlemen placed in the other chairs are proving themselves well worthy the confidence placed in them.

Among the younger men who have been doing excellent work, and who, I think, deserve at your hands substantial recognition of this fact, I beg to name Professor Frederick, Assistant Professors Stratton and Myers, and Assistant Grindley. Mr. Parker, foreman and teacher in the wood-shop, asks a moderate increase of salary, which should be allowed. If the University is to go forward with building operations, Mr. Parker's services cannot well be spared.

I present the following communication from Professor Ricker:

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

GENTLEMEN: I beg leave to present the following recommendations and statements for your consideration.

A. For the College of Engineering.

1. That a second Thatcher's computing scale be purchased for the use of the College during the next University year. It will be much needed, is the best computing instrument of moderate cost now in use, and costs \$30 and express charges.

2. That a Webb's adder be likewise purchased for the use of the College, costing \$7 and express charges.

B. For the department of architecture.

1. That \$40 be appropriated for an additional case for the collection of plates in the architectural room, to be placed next east of the two cases now in use, which are filled, leaving about 1,500 additional plates for which there is no place.

2. That \$30 be appropriated for a case for catalogues and price lists of building materials and appliances to be placed between the proposed case just mentioned and the steam radiator.

3. That \$75 be appropriated for a good photographic camera of the latest pattern and outfit, to be used for taking views of buildings, of structural and ornamental details, etc., as opportunity offers. The lens belonging to the department was stolen from the blue print room several years since and has never been traced.

4. The last appropriation of \$100 for purchase of materials for the architectural collection has been exhausted. About one-half the appropriations for this purpose are necessarily expended for the purchase of portfolios, mounting boards, etc., leaving a comparatively small amount for the purchase of photographs, engravings, etc.

5. That two respectable instructor's desks be purchased for the use of the professor and assistant in architecture.

6. That Mr. James M. White be retained for the next year if possible. He is a first-class man, one of the best and most promising graduates of the University, and has done excellent work as an instructor during the year just ending, being a very competent and popular teacher, and enthusiastic in his chosen profession. It would certainly be very unfortunate for the University to lose the services of so good a man, merely because the profession offers him more attractive and promising inducements to leave.

C. For the architectural shops.

1. That \$800 be appropriated for the erection of an isolated wooden store-house for lumber, with proper racks and a roof of corrugated iron. The present sheds were built for temporary use over twenty years since, and have practically rotted down.

2. That \$200 be appropriated for a new dry kiln. It is proposed to build this of brick, with arched brick roof, tinned outside, and with tinned wooded doors at each end. Dimensions 18x7x6 feet inside, with flat steam coil beneath the whole, and a ventilating flue. The old dry kiln has decayed, and is also somewhat dangerous to the main building. A dry kiln of some kind is an absolute necessity, since the kiln-dried lumber purchased in Chicago will absorb sufficient water while stored or



being worked so that it cannot be satisfactorily used in the steam-heated University buildings.

3. Some repairs to the present wood-working machines and some additional machines are very much needed, especially if the wood-work and fixtures of the proposed new University buildings are to be made in the shops.

The tenoning machine will require about \$100 to put it in good condition.

The molding machine will require about the same sum.

A power mortising machine is a necessity, as the old foot-power machine is inaccurate, is very slow and hard to operate, has been in use over twenty-one years, and ought to be thrown aside.

An improved saw-bench is also much needed, since a good one with the latest improvements is the most useful machine in a shop.

A pony planer for smooth-surfacing of small pieces and thin lumber would also be exceedingly useful, as the large planer is not suited for this kind of work.

In conclusion, I regret being compelled to state that it will be simply impossible for me to take charge of the erection of the proposed new building for the University as architect, under present conditions, and in addition to the regular work in instruction now required of me.

It should be remembered that the assistant in architecture has always been required to devote two-thirds of his time to instruction in general classes in the College of Engineering, thus being able to take but a single architectural class per term, or three classes during the entire year, which leaves all remaining special instruction in architecture to me. This work fully occupies my entire time and strength during the term, leaving very little opportunity for making improvements in the course of instruction, or to revise and extend lecture notes and text books, except during the vacations. Indeed, it is not probable that there is any other school of architecture elsewhere in the United States in which one and one-third instructors are expected and required to impart all the necessary special instruction and training to at least sixty-five architectural students.

Courses of study in architecture have recently been introduced in two more educational institutions, now making six architectural schools in the United States, and another will undoubtedly be opened in Chicago within a very few years. In order to maintain the present satisfactory reputation and prestige of this school of architecture in competition with the efforts of the other schools, two things are urgently required—money and hard work. Since it does not now appear that abundant funds will ever be available for this purpose, the amount of hard work will necessarily be greatly increased, because done at a great disadvantage in comparison with most other schools. The entire time of two instructors ought henceforth to be devoted to the special instruction in architecture, and no better investment could be made at this time.

Very respectfully submitted,

N. CLIFFORD RICKER.

Professor Ricker's requests when classified will be as follows:

From state appropriation for furniture—		
Two cases and two desks.....		\$100 00
From state appropriation for apparatus—		
Two computers.....	\$40 00	
Camera.....	75 00	
Collection.....	100 00	
		215 00
For buildings, current funds.....		1,000 00
For new machinery—		
Congressional fund, say.....		1,000 00

I regret the necessity of presenting to you a communication from Professor Arthur T. Woods declining re-election. Professor Woods has

served the University for eight years, in a most important position and in a manner beyond criticism. It is a post difficult to fill, and it will not be easy to find a successor of equal scholarship and capacity.

CHAMPAIGN, ILL., June 3, 1891.

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

GENTLEMEN: It is my duty to inform you that, having accepted the position of professor of dynamic engineering in Washington University, St. Louis, I am not a candidate for reappointment as professor of mechanical engineering in the University of Illinois.

Very respectfully,

ARTHUR T. WOODS.

The sale of lands in Minnesota is progressing quietly. Nearly a thousand acres have been sold since your last meeting.

I present reports from the Board of Direction of the Experiment Station, from the farm, and from the State Laboratory of Natural History:

#### AGRICULTURAL EXPERIMENT STATION.

The Board of Direction of the Agricultural Experiment Station presents the following papers:

Paper A is a list of warrants drawn, Nos. 896 to 967, inclusive, and is accompanied with vouchers for the same.

Paper B is a statement of the expenditures for the quarter ending March 31, 1891.

Paper C is a statement of the appropriations, expenditures and balances for the quarter ending June 30, 1891.

Paper D is a statement of appropriations asked for this and the next quarters.

#### PAPER B—STATEMENT OF EXPENDITURES FOR QUARTER ENDING MARCH 31, 1891.

Buildings and repairs.....	\$20 00
Board expense.....	24 66
Books and publications.....	49 26
Botanical apparatus and supplies.....	2 00
Bulletins.....	676 83
Chemical apparatus and supplies.....	47 53
Fertilizers.....	6 00
Fuel and lights.....	80 00
Incidentals.....	18 55
Printing, stationery, and postage.....	29 87
Salaries.....	1,518 52
Seeds and trees.....	21 16
Tools and supplies.....	35 50
Wages.....	741 74
Dairying experiments.....	28 95
Total.....	\$3,300 57
Balance.....	\$953 88

PAPER C—STATEMENT OF APPROPRIATIONS, EXPENDITURES AND BALANCES FOR QUARTER  
ENDING JUNE 30, 1891.

	Appropriations.	Expended	Balances.
Buildings and repairs. { Dry room.....	\$50 00		\$50 00
{ Dairy-house.....	250 00		250 00
{ Museum.....	65 00		65 00
Board expenses.....	30 00		30 00
Books and publication.....	150 00		150 00
Botanical apparatus.....	25 00		25 00
Bulletins.....	300 00		300 00
Chemical apparatus.....	50 00		50 00
Fertilizers.....	10 00	8 10	1 90
Fuel and lights.....	150 00		150 00
Incidentals.....	25 00	10 00	15 00
Printing, stationery, and postage.....	25 00		25 00
Salaries.....	1,800 00	858 33	941 67
Seeds and trees.....	50 00	25 91	24 09
Tools and supplies.....	200 00	11 82	188 18
Wages and teams.....	1,075 00	591 07	483 93
<i>Sundry experiments—</i>			
Dairying experiments.....	100 00	24 59	75 41
Wheat experiments.....	50 00	32 09	17 91
Total.....	\$4,405 00	\$1,561 91	\$2,843 09

## PAPER D—ESTIMATES.

<i>For the Quarter Ending June 30, 1891.</i>		
Hood in chemical laboratory.....		\$30 00
Reaper.....		55 00
Separator and other fittings for dairy-house.....		350 00
Apparatus for botanical laboratory.....		105 00
Drawers in warehouse.....		30 00
Total.....		\$570 00
<i>For Quarter Ending September 30, 1891.</i>		
Buildings and repairs.....		\$10 00
Board expenses.....		40 00
Books and periodicals.....		50 00
Botanical apparatus.....		70 00
Bulletins.....		250 00
Chemical apparatus.....		275 00
Fuel and lights.....		60 00
Incidentals.....		25 00
Printing, stationery, and postage.....		25 00
Salaries.....		1,750 00
Tools and supplies.....		35 00
Wages and teams.....		1,050 00
<i>Sundry experiments—</i>		
Dairying experiments.....		100 00
Wheat and other experiments in southern Illinois.....		100 00
Total.....		\$3,840 00

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

The Board of Direction asks that its president and secretary have authority to use for such purposes as may best subserve the interests of the Station, any unexpended balances of the Station funds appropriated for this fiscal year.

The Board reports that it has appointed Mr. F. D. Gardner, assistant agriculturist, for the rest of the year ending March 31, 1892, at a salary of \$900 per annum; and that it has raised the salary of Mr. G. P. Clinton, assistant botanist, from \$600 to \$750 per annum from September 1, 1891, to March 31, 1892, and it asks that its action be approved by the Trustees.

The Board of Direction asks authority to undertake these new experiments:

1. To improve and produce varieties of cereals.
2. To investigate the strength and composition of fibre plants.

By order of the Board of Direction of the Experiment Station.

SELIM H. PEABODY, *President*.

#### FARM REPORT.

URBANA, ILL., June 4, 1891.

*Dr. S. H. Peabody, Regent,*

SIR: During the three months ending June 1, 1891, the receipts for sales from the University farms have been ..... \$1,303 10  
The expenditures have been ..... 545 97

Leaving balance to credit of farms of ..... \$757 13

The receipts may be classified thus: Horses, \$350; cattle, \$407.53; pigs, \$68.13; seed corn, \$210.59; hay, \$209.20; clover seed, \$37.65; miscellaneous, \$20.00.

The expenditures may be classified thus: Labor, \$409.86; live stock, \$55.00; feed, \$30.20; seeds, \$14.78; machinery, repairs, and miscellaneous, \$36.13.

The farm work is well advanced. Corn, oats, and grass are suffering for lack of rain. The live stock is, in general, in good health and condition.

Respectfully submitted,

G. E. MORROW, *Professor of Agriculture*.

#### STATE LABORATORY OF NATURAL HISTORY.

UNIVERSITY OF ILLINOIS, June 8, 1891.

*To the Trustees of the University of Illinois.*

GENTLEMEN: I have the honor to report concerning the appropriation bill for the Illinois State Laboratory of Natural History now pending before the legislature (a copy of which is transmitted herewith) that it has passed the Senate by a unanimous vote, and that it is now on its second reading in the House, where it has been favorably reported by the appropriations committee. It has received but one amendment, and this in the form of an addition (proposed by the Senate committee on appropriations) of \$600 for the publication of additional copies of the first volume of the Natural History Survey of the State.

The entire amount of the bill as it stands, is \$14,100 for the two years; an increase of \$2,600 over the appropriation of the last session.

I have to recommend the following salary list for the Laboratory staff during the coming two years \*conditioned (in such way as the Trustees may deem best) upon passage of the Laboratory appropriation bill substantially as now pending:

Professor T. J. Burrill, \$200 per annum; Mr. John Marten, \$1,000 per annum; Mr. C. A. Hart, \$750 per annum; Miss M. J. Snyder, \$750 per annum; Mr. H. S. Brode, \$200 per annum.

---

\* The bill was passed June 10, without change, with the following allowances:

For field, office, and incidental expenses .....	\$1,500 per annum.
For library .....	1,000 "
For salaries and assistance.....	3,500 "
For publication of bulletins.....	500 "
For illustration of report of Entomologist.....	500 "
For printing and binding additional copies of Vol. 1 of Natural History Survey of Illinois.....	600

I have further to request the assignment (conditioned as before) of the following sums from the next appropriation for the expenses of the Laboratory during the quarter ending September 30, 1891:

For field, office, and incidental expenses.....	\$375 00
For the improvement of the library.....	1,000 00
For salaries and assistance.....	875 00
For publication of bulletins.....	125 00
For the illustration of the Biennial Report of the State Entomologist.....	250 00

The foregoing items are, as it will be seen, one-fourth the annual appropriation in the bill, with the exception of those for the library and the illustration of the State Entomologist's report, which are for the whole of the annual appropriation. The insufficient appropriation made by the last legislature for library purposes has thrown us behind with respect to the books needed for current work and that next to be taken up, and I should like, consequently, to use at once the whole of the library appropriation for the year.

As the item for illustrations is used but once in two years, it seems hardly necessary that it should be drawn from the treasury in quarterly installments.

Respectfully submitted,

S. A. FORBES, *Director of Laboratory.*

On the night of the eleventh of April, Military Hall and Machinery Hall were broken open and all the small arms stored in the two places, including swords and rifles, were carried away. The perpetrators of the act have not been discovered. The rifles and some of the swords were found the next day and were brought back to their places. I immediately placed a watchman in Military Hall, and, with the advice of the President of the Board, have continued this care to the end of this term. The rifles were much rusted and suffered other injuries, which have caused some expense in putting them again in order.

Also Board expenses are larger than estimated.

Professor Shattuck asks for these causes from current funds:

For buildings and grounds.....	\$150 00
For military department.....	50 00
For Board expenses.....	200 00
To which I must add for myself, for legislative duties at Springfield since the April meeting, traveling expenses.....	20 94

#### DONATION BY TYLER M'WHORTER.

I have the pleasure to report a valuable donation of geological specimens and books from Tyler McWhorter, Esq., of Aledo, Mercer county. His letter of gift is herewith appended. As authorized by the Trustees in such cases, I have sent to him a letter of thankful acceptance, and have assured him that the conditions of his gift will be respected.

ALEDO, ILL., June 2, 1891.

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

GENTLEMEN: I have decided to donate my *Geological and Mineralogical* collection, containing about *twelve hundred* species, to your University on the following conditions:

1st. That this collection be placed in the museum of your University for the instruction of the students; and that a suitable acknowledgment of the donation shall be framed and kept in an appropriate place in the museum of the University.

2d. Each species label, which marks a specimen from my collection, shall bear my name as donor.

3d. Duplicates in my collection may be used for exchange, or for other purposes at your discretion.

Witness my hand.

TYLER MCWHORTER.

A communication from a committee of the State Horticultural Society is herewith submitted:

COMMUNICATION FROM STATE HORTICULTURAL SOCIETY.

*To the Board of Trustees University of Illinois.*

GENTLEMEN: The Illinois Horticultural Society desires to make an exhibit of trees, plants, etc., in fruitage, at the World's Fair, and would like the assistance and co-operation of the horticultural department of the University in carrying forward its plans. The making of this exhibit is dependent upon the future action of the authorities, but the Society would like the consent of the Board of Trustees to the proposition at this time in order that necessary preliminary work may be done in preparing plants for fruitage during the summer. The Society will defray all expenses of work undertaken at its direction.

Respectfully submitted,

HENRY M. DUNLAP, *Committee.*

CHAMPAIGN, June 9, 1891.

*Dr. S. H. Peabody, Regent University of Illinois,*

DEAR SIR: I communicate herewith the request of Mr. H. M. Dunlap on behalf of the Illinois State Horticultural Society. It appears to me that the work desired can be done by the University horticultural department without detriment to itself in any way. The question however still remains as to whether this department should attempt similar work for itself. Should this be done that for the Society need not be refused. While it is desirable that Mr. Dunlap's request should be answered now, it is not necessary—so far as the actual work is concerned—that the part relating to the exhibit by the department itself be specially considered until the next meeting of the Board of Trustees.

I am very truly yours,

T. J. BURRILL.

I have thus far sought to make in this paper only such statements as concern the work of the University and its interests, down to the present time. There is much that should be said touching its needs in the immediate future, and the disposition of the appropriations by the United States and the state, soon to fall under your control. It does not seem to me proper that I should now enter upon these topics.

I must, however, express my thanks for the evidence this Board has shown of its confidence in me, by approving for eleven years, with such remarkable constancy and unanimity, the plans and propositions which I have been permitted to present.

I wish to make two requests. The first is that I may be permitted to have the written statement of the acts of the Regent and Faculty, which I presented at the March meeting, on the occasion of the inquiry into those acts pursuant to a petition of the students *in re* Steele and Pasfield,—entered upon and made part of the minutes of the Board of that meeting. It appears to me that in a transaction of so grave a nature as that was, that the Regent and Faculty are entitled to a place in the record for their plea, equally with the findings of the court, and the expressions of gratification which the complainants were afterwards pleased to present.

The second is that for its beneficial influence on the good fame of the University, a statement of the Foster North case, including so much as has already been printed in the University reports, and the decision of the Supreme Court of the State of Illinois, be printed; and that at least

2,000 copies be circulated through the state. Nothing could so surely set at rest certain slanderous accusations which have so constantly been flung at the University, as a circulation of this document.

With an abiding faith in the growth and ultimate prosperity of the University of Illinois, to which, for thirteen years, I have given all that I had, might, mind, soul, and strength, and awaiting your farther pleasure, I remain, ever your obedient servant.

SELIM H. PEABODY,

*Regent University of Illinois.*

At the request of the Board, the following supplementary report was made:

In regard to the legislative appropriations, I would make the following suggestions:

1. *As to Furniture.* That funds be set aside sufficient to buy 2,000 chairs for the Military Hall. These may cost as much as \$5.00 a dozen, and in that case would require \$833.33, besides freight. These need not be bought until near the end of the next year. When procured some arrangement must be made for their storage.

2. *As to heating Military Hall.* The plans have all been elaborated by Professor Woods. I think the boiler, tunnel under street, main steam pipes, distributing pipes and returns, should be put in as planned, using the utmost economy possible. A part of the radiators may be omitted, perhaps, for a time, and it may be that some additions to available funds may be made from current funds. This heat will not be needed before December first, and perhaps not until after New Year's. I would then leave the matter until after the opening of the next college year. There will be then plenty of time. Nothing else depends on this to be delayed by it. The progress of the work will not interfere with students' work, and the whole may continue to be a good object lesson for the mechanical engineers.

3. *The barn.* For this the appropriation has been severely cut. The matter needs immediate attention. I would recommend the extension of the barn to the full limit proposed—104 feet in length, of the width already begun—and that so much be finished up substantially, with no unnecessary ornaments, and well painted. From the report of the Business Agent, I believe that \$1,000 or even \$1,500 may be added from the current balance to the \$2,500 allowed by the state, and I believe that the larger part of the contemplated improvements can be secured with this money. I would suggest that a committee be appointed to perfect detail plans and to go forward promptly with the work at cost of barn not to exceed, say \$3,500. It may be that some aid might be had from Experiment Station funds, for the fittings, stalls, etc., etc., to be put inside, but I am disposed to think that we may get through without aid from this source, and should do so if possible. Additional matters, such as sheds, corn-cribs, pig-house, etc., can wait.

4. *The new building.* The plans for this building are my own. They are the result of study for about five years, in which I have had this on my mind, and of observation at home and abroad. The museum, especially follows what I believed to be the most eligible plan I saw in Europe, in a museum building lately finished in the Jardin des Plantes at Paris. The plans have done so much service, at least, that they have been the necessary basis for the appropriation.

I understand, however, that although once approved by every one nearly interested in them, some objections are now raised. I hope that they will be referred to a committee, upon which all interests may be represented, and that the outcome may be a thoroughly good architectural building, fitted for convenient and practical work.

Some time will necessarily elapse in preliminaries. I regret that Professor Ricker feels that he cannot give any attention to it. It will be

desirable, if possible, to get the building enclosed before winter, if not the whole, perhaps only the main part. If the whole could be finished, ready for a dedication at the next commencement, and for occupation in the following autumn, it would be greatly desirable. It seems to me that arrangements can be made which would allow contractors to go forward, to receive a part of their pay after July 1, 1892; that the money having been appropriated by the state, may be counted as assets belonging to the institution. If, as I fear, the provision for heating should be found inadequate, I think that it might be aided in some respects from the building fund; and that, say the attic story and the basement, may be left temporarily unfinished. The furnishing will be scanty, and in the beginning must rely much on what can be taken from the same department in the old building.

5. *Water at the barn.* This has come to be a serious deficiency. During many months of the last year we have hauled water to the north barn from the hydrants at the University. There are wells at the barn and Professor Morrow's house, but they have gone dry in these last dry years. One project will be to make a deep well, and put on it a wind-mill. This will, perhaps, be the cheapest; but it will be constantly demanding repairs, and will not furnish any considerable fire protection, which we ought to have.

The distance from the barn to the water system at the main building is about 2,400 feet. We could lay an inch pipe to the barn, having it end in a considerable tank. This would not give adequate fire protection. It would cost say, 25 cents per foot, for pipe, digging and laying, or in all, for pipe, tank, and fittings, say \$700.

A four-inch main may be laid in the same distance for 40 cents per foot—and with hydrant would cost \$1,000. Opportunity would be given in either of the last two methods for offsets to the veterinary house, Experiment Station warehouse, and Professor Morrow's house. I believe the latter to be the better method.

6. *Buildings and grounds.* From this fund should be made the usual appropriation for cleaning and minor repairs needed in the summer vacation, with an addition for painting and calsmining such rooms as most need it, say \$400.

For ceiling the under surface of main stairway, \$60.

University Hall and the Chemical Laboratory have come to need painting as to their outside wood work. They were painted last in 1881. The Observatory and the veterinary building also badly need painting outside. The painting of these larger buildings cost in 1881, about \$750. The material was purchased by the University, and the putting it on was done by contract. I think good work can be secured in no other way.

The care of the grounds from July 1st to end of season will require about \$150 more—making the sum of these demands, \$1,360—as much as it will be safe to draw on this fund for at this time of the year.

7. *The library fund.* Authority is asked for procuring binding to the amount of \$162.50.

8. *The proceeds of the Morrill college aid bill.* You have received \$15,000, being the installment for the year ending June 30, 1890. You will soon receive \$16,000, being the installment for the year ending June 30, 1891. After July 1, 1891, and when you are prepared to make a proper report on the second installment, you will receive \$17,000, which is the income from this fund properly belonging to the next college year. The \$16,000 soon to be received is, properly considered back pay.

It appears to me that you should make all your estimates for the current expenditures of the year July 1, 1891, to June 30, 1892—or what is practically the same, September 1, 1891, to August 30, 1892, to correspond with the income belonging to the same time. The \$16,000 to be received is really part of the balance coming out of the present year. You might



use some of it, for example, to increase salaries for the coming year, but this would hardly be prudent, because you have no surety that you can continue to maintain such increments of salaries.

You cannot use the \$16,000 to pay salaries for the year just closing, because those salaries are already paid.

I suggest that the same method be adopted for using this money that was applied to the first installment of \$15,000. That you begin at September and pay such salaries as are proper to be so paid, until \$8,000 are so used, and that the other half, \$8,000, be used for "facilities." This will enable you to make a report by the middle of the year, say by February 1st, and so draw the \$17,000 for the current year. This may be provided for by the end of the year, and you can bring the whole into proper adjustment.

Among the "facilities" I would recommend the following:

For library, \$4,000—one-half in the first part of the year; the other half in the second part of the year.

For an equatorial telescope, mountings and house, \$3,000. This will require time, and will fall into the last part of the year.

For the purchase of the Worthen geological collection of State of Illinois—so much as may be needed—not to exceed \$5,000.

For physical apparatus, \$1,000.

For additional machinery and tools in the architectural shops, \$1,000.

The remainder for future consideration, \$2,000.

I beg leave to recommend the following appointments of professors and instructors for the following year:

## LIST OF APPOINTMENTS AND SALARIES.

Names.	Position.	Salary.
Thomas J. Burrill.....	Professor of Botany and Horticulture.....	\$2,000
Samuel W. Shattuck.....	Professor of Mathematics.....	2,000
Edward Snyder.....	Professor of the German Language and Literature..	2,000
N. Clifford Kieker.....	Professor of Architecture.....	2,000
J. D. Crawford.....	Professor of History and Librarian.....	2,000
G. E. Morrow.....	Professor of Agriculture.....	2,000
I. O. Baker.....	Professor of Civil Engineering.....	2,000
S. A. Forbes.....	Professor of Zoölogy and Entomology.....	1,000
J. H. Brownlee.....	Professor of Rhetoric and Oratory.....	2,000
C. W. Rolfe.....	Professor of Geology.....	2,000
Donald McIntosh.....	Professor of Veterinary Science.....	1,800
N. Butler, Jr.....	Professor of the English Language and Literature..	2,000
A. N. Talbot.....	Professor of Municipal Engineering.....	1,800
A. W. Palmer.....	Professor of Chemistry.....	1,800
S. W. Parr.....	Professor of Analytical Chemistry.....	1,800
Charles DeGarmo.....	Professor of Psychology.....	2,000
H. J. Barton.....	Professor of the Latin Language and Literature.....	2,000
F. R. Frederick.....	Professor of Industrial Art and Design.....	1,800
M. R. Paradis.....	Professor of the French Language and Literature....	1,800
Charles M. Moss.....	Professor of the Greek Language and Literature....	1,800
S. W. Stratton.....	Professor of Physics.....	1,600
.....	Professor of Mechanical Engineering.....	2,000
.....	Professor of Mining Engineering.....	1,800
.....	Professor of Physical Culture.....	1,600
G. W. Myers.....	Assistant Professor of Mathematics.....	1,200
G. W. Parker.....	Instructor in Wood-working and Foreman.....	1,380
R. Anderson.....	Instructor in Iron-working and Foreman.....	1,600
Clara Maud Kimball.....	Instructor in Vocal and Instrumental Music.....	300
H. S. Grindley.....	First Assistant in Chemistry.....	1,000
H. S. Brode.....	Assistant in Zoölogy.....	1,000
James M. White.....	Assistant in Architecture.....	850
E. S. Keene.....	Assistant in Machine shop.....	850
R. W. Cornelison.....	Second Assistant in Chemistry.....	750
Edith A. Shattuck.....	Assistant in Drawing.....	500
.....	Instructor in Mathematics.....	750
.....	Instructor in Preparatory Latin.....	750
Cleaves Bennett.....	Assistant Librarian.....	850

The following list of vacancies and new places should be filled :

Professor of mechanical engineering.

Professor of mining engineering.

Professor of physical culture.

Assistant professor in physics and electricity.

Instructor in preparatory Latin.

Assistant to Professor Brownlee, and teacher of English.

If Professor Ricker has full assistant, then an instructor in drawing will be indispensable.

If the new building requires much of Mr. Parker's superintendence, then an assistant is needed in the architectural shops.

The usual authority for advertising should be given.

Respectfully submitted,

SELIM H. PEABODY, *Regent*.

On motion of Mr. McKay, the Board of Trustees authorized conferring degrees and granting certificates as recommended by the Faculty of the University, and approved the recommendations for commissions.

On motion of Mr. McKay, the list of professors and instructors was then taken up.

On motion of Mr. Morgan, Professor Frederick's salary was raised to \$1,800 a year.

On motion of Mr. Cobb, Mr. Stratton was made professor of physics with a salary of \$1,600 a year.

On motion of Mr. Raab, Assistant Professor Myers' salary was made \$1,200 a year.

On motion of Mr. Cobb, the appointments of professors and assistant professor, as recommended in the Regent's report, was then approved and the salaries fixed as therein named.

On motion of Mr. Raab, the salary of Mr. Parker was raised to \$1,380 a year.

On motion of Mr. Raab, the appointment of instructors and assistants, as recommended in the Regent's report, was approved and the salaries fixed as named therein.

On motion of Mr. Cobb, Professor Shattuck was re-appointed Business Agent for the year from Sept. 1st, at a salary of \$600 a year; and Mr. A. B. Baker was appointed chief janitor for the same time at a salary of \$840 a year.

On motion of Mr. Cobb, the Board approved the assignment of salaries for the next two years to the several persons on the staff of the State Laboratory of Natural History as reported by the Director of the Laboratory, Professor Forbes.

On motion of Mr. McKay, the Board approved the action of the Board of Direction of the Experiment Station in appointing Frank D. Gardner assistant agriculturist at a salary of \$900 a year for the year ending March 31, 1892, and in raising Mr. Geo. P. Clinton's salary to \$750 a year from Sept. 1, 1891, to March 31, 1892.

On motion of Mr. Cobb, the recommendations of Professor Ricker regarding a new store-house for lumber, and a new dry kiln were referred to the Committee on Buildings and Grounds.

On motion of Mr. Graham, the Committee on Instruction with the Regent were requested to propose suitable persons for the vacant professorships and assistants' places.

The Board then adjourned to meet at the Doane House, in Champaign, Ill., at 8 o'clock p. m.

## EVENING SESSION.

The Board met pursuant to adjournment at 8:15 o'clock p. m., the same members being present as in the afternoon.

On motion of Mr. Raab, appropriations of the Station funds were made according to Paper D in the report of the Station.

On motion of Mr. Raab, authority was given the Board of Direction to expend unused balances of appropriation for this year as it requested.

On motion of Mr. McKay, the Board of Direction was given the permission asked to take up new experiments.

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

## TREASURER'S REPORT.

JOHN W. BUNN, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

		Dr.		
1891.				
March	10	To balance .....		\$16,208 09
		.. interest on Champaign school bonds .....	\$15 00	
		.. Sangamon county school bonds .....	400 00	
				415 00
	20	.. amount received from United States through State of Illinois .....		15,000 00
	31	.. amount rec'd on account University students' fees..	\$1,455 00	
		.. .. preparatory year .....	245 00	
		.. .. buildings and grounds .....	15 00	
		.. .. laboratories .....	2 25	
				1,717 25
April	1	.. interest on Sangamon county school bonds .....		90 00
May	1			258 00
	30	.. .. land contract, No. 23, James Lowe .....	\$122 00	
		.. .. 30, E. L. Baughman, assignee .....	40 95	
		.. interest on land contract, No. 41, U. M. Losey, assignee .....	42 75	
		.. interest on land contract, No. 44, C. E. Baker .....	18 20	
				223 90
		.. amount received on account buildings and grounds ..	\$15 00	
		.. .. fuel and lights .....	51 26	
		.. .. mechanical department ..	221 40	
		.. .. architectural ..	450 24	
		.. .. agricultural ..	1,302 10	
		.. .. horticultural ..	262 00	
		.. .. laboratories .....	443 18	
		.. .. gymnasium ..	6 00	
		.. .. University students' fees ..	1,555 00	
		.. .. preparatory year .....	255 00	
		.. .. music fees .....	205 00	
				\$4,766 18
				<u>\$38,678 42</u>

Treasurer's Report—*Concluded.*

		<i>Cr.</i>			
1891.					
May	30	By amount paid on account	Board expense.....	\$185 34	
			salaries.....	5,601 28	
			buildings and grounds.....	176 74	
			fuel and lights.....	413 80	
			stationery and printing.....	330 53	
			preparatory year.....	664 98	
			mechanical department.....	247 60	
			architectural.....	388 94	
			agricultural.....	538 67	
			horticultural.....	61 08	
			military.....	33 22	
			laboratories.....	305 03	
			library and apparatus.....	30 38	
			incidental expense.....	162 96	
					\$9,140 55
			water supply.....	\$200 00	
			furniture and fixtures.....	112 74	
			moving machine shop.....	3 20	
			gymnasium.....	144 97	
			Griggs farm.....	53 50	
			grading campus.....	350 00	
			music fees.....	205 00	
					1,069 41
			buildings and grounds.....	\$320 15	
			mechanical and arch'l shops.....	211 92	
			books and publications.....	424 82	
			cabinets.....	190 99	
			expenses of instruction.....	2,067 18	
			machine shop boiler.....	40 52	
			State Laboratory of Natural History.....	1,166 71	
					4,422 29
			United States fund.....		9,063 09
					14,983 08
		Balance.....			\$38,678 42

Urbana, June 9, 1891.

JOHN W. BUNN, *Treasurer.*

The Business Agent presented the following report which was referred to the Finance Committee:

*S. A. Bullard, Esq., President Board Trustees University of Illinois,*

SIR: I have the honor to hand you herewith the financial statements due from me at this time.

Paper A is a showing of the current appropriations for the three months ending June 1, 1891.

Paper B gives the condition of the state appropriations June 1, 1891.

Paper C is the same for the United States fund.

Paper D is a list of vouchers presented for audit, being 501 to 775 inclusive.

Paper E is an estimate of the receipts and expenses for the balance of the year ending September 1, 1891.

Paper F is an estimate of receipts and expenses for the twelve months ending September 1, 1892.

Respectfully submitted,

S. W. SHATTCK, *Business Agent.*

## PAPER A—CURRENT APPROPRIATIONS.

March 10, 1891.	Appropriated.	Receipts also appropriated.	Expended	Balance.
Board expense.....	\$300 00		\$185 32	\$114 68
Salaries for instruction.....	26,820 00	Current...	4,122 83	13,129 99
		State.....	2,067 18	
		U. S. fund.	7,500 00	
Salaries for services.....	2,250 00		1,47 45	771 55
Buildings and grounds.....	100 00	\$30 00	176 74	
Fuel and lights.....	1,000 00	51 26	413 80	637 46
Stationery and printing.....	1,300 00		330 53	969 47
Mechanical department.....	200 00	221 40	217 00	173 80
Architectural.....	200 00	450 24	388 94	261 30
Agricultural.....	200 00	1,302 10	538 67	963 43
Horticultural.....	100 00	262 00	61 08	300 92
Military.....	50 00		33 22	16 78
Laboratories.....	200 00	445 43	305 03	340 40
Library and apparatus.....	50 00		30 38	19 62
Incidentals.....	276 39		162 96	113 43
<i>Sundries.</i>				
Furniture and fixtures.....	200 00		112 74	87 26
Water supply.....	200 00		200 00	
Moving machine shop.....	90 81		3 20	87 61
Gymnasium.....	117 71	6 00	144 97	
Griggs farm.....	53 50		53 50	
Commencement.....	200 00			200 00
Grading campus.....	350 00		350 00	
University fees.....		3,010 00		3,010 00
Preparatory year.....		500 00	661 98	
Music fees.....		205 00	205 00	

## PAPER B—STATE APPROPRIATIONS.

	Received.	Expended	Balance.	Assigned.
Taxes on lands.....	\$3,088 67	\$3,088 67		
Buildings and grounds.....	5,000 00	4,810 75	\$189 25	\$189 25
Mechanical and architectural shops.....	3,000 00	2,818 87	181 13	47 56
Books and publications.....	2,000 00	1,931 94	68 06	68 06
Cabinets.....	500 00	614 84		
Expenses of instruction.....	40,000 00	40,000 00		
Apparatus and material.....	3,000 00	3,000 00		
Metallurgical laboratory.....	4,000 00	2,950 43	1,049 57	
Machine shop boiler.....	1,250 00	1,250 00		
	\$61,838 67	\$60,465 50	\$1,488 01	\$304 87
Illinois State Laboratory of Natural History...	14,373 62	11,615 35	2,758 27	

## PAPER C—UNITED STATES FUND.

	Received.	Expended	Balance.	Assigned.
Salaries for instructors.....	\$7,500 00	\$7,500 00		
Electric laboratory.....	2,500 00	214 04	\$2,285 96	\$2,285 96
Mechanical.....	1,000 00	464 11	535 89	535 89
Chemical.....	1,000 00	181 55	818 45	818 45
Civil engineering.....	500 00	408 38	91 62	91 62
Botany and physiology.....	500 00	81 86	418 14	418 14
Natural history.....	2,000 00	213 15	1,786 85	1,786 85
	\$15,000 00	\$9,063 09	\$5,936 91	\$5,936 91

The Business Agent's askings for appropriations were as follows:

Board expenses.....	\$200
Buildings and grounds.....	150
Military department.....	50
Total.....	\$400

On motion of Mr. Cobb, these several amounts were assigned from current funds.

The Regent's bill of \$20.94 for traveling expenses was ordered paid.

The matter of the new barn was then taken up and, on motion of Mr. Cobb, it was voted to add \$1,000 to the state appropriation of \$2,500, and that the building of the barn within this limit be put in charge of the Regent, Professor Morrow, and the Committee on Buildings and Grounds.

On motion of Mr. Raab, \$1,000 was appropriated for getting a water supply at the north barn by laying a 4-inch main connected with the city water works, and the matter was put in charge of the same committee as the new barn.

On motion of Mr. Graham, Professors Burrill and Forbes, the Regent, and Messrs. Bullard and Morgan were appointed a committee to consider and mature plans for the new building and it was ordered that so soon as the plans were ready the President should call a meeting of the Board to pass upon them.

On motion of Mr. Raab, the following appropriations were made for purposes named from the state appropriation for buildings and grounds:

Repairs, cleaning, calsoining, etc.....	\$400 00
Ceiling over stairway in University Hall.....	60 00
Painting outside woodwork of University Hall, the Chemical Laboratory, the veterinary buildings and the Observatory .....	750 00
Care of grounds to end of season .....	150 00
Total.....	\$1,360 00

On motion of Mr. Morgan, the question of putting in new front doors to University Hall, as proposed by the President, was referred to the committee on plans of new building.

On motion of Mr. Cobb, \$162.50 was assigned from the library fund to be used in binding.

On motion of Mr. Cobb, \$75 was appropriated from the state appropriation for cabinets to be used, as asked by Professor Burrill, in obtaining assistance upon the herbarium.

On motion of Mr. Raab, the farm report was approved for record.

The request of the State Horticultural Society, as presented by Mr. H. M. Dunlap, was granted on motion of Mr. Cobb.

On motion of Mr. Raab, assignments of funds of the Laboratory of Natural History were made as asked by the Director, Professor Forbes:

Field, office, and incidental expenses .....	\$375 00
Improvement of library.....	1,000 00
Salaries and assistance.....	375 00
Publication of bulletins.....	125 00
Illustration of the Biennial Report of the State Entomologist.....	250 00
Total.....	\$2,125 00

On motion of Mr. Cobb, appropriations asked by Professor Ricker were made as follows:

From the state appropriation for furniture—	
Desks and cases.....	\$110 00
From state appropriation for apparatus and material—	
Computers.....	40 00
Camera.....	75 00
Total.....	\$115 00

On motion of Mr. Raab, there was appropriated from the United States fund—

For tools and machinery in the carpenter shop, as asked by Professor Ricker.	\$1,000 00
--	------------

The sum to be expended under the supervision of the Committee on Buildings and Grounds and the Regent.

From the same fund there was appropriated—

For the physical laboratory.....	\$1,000 00
----------------------------------	------------

On motion of Mr. Cobb, the University's membership fee of \$25.00, in the ASSOCIATION OF AMERICAN AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS, for the year 1890-91, was ordered paid.

The Treasurer's bill of \$300 for premium paid on six per cent. bonds was ordered paid on motion of Mr. Morgan.

The bond of the Treasurer for \$300,000 was presented and referred to the Finance Committee.

The Board then adjourned to meet in the University Parlor at 8 o'clock a. m. the next day.

#### SESSION OF WEDNESDAY MORNING.

The Board met pursuant to adjournment, the same members being present, except Mr. Raab, as on the day before.

The Regent having presented a communication from Professor Woods, declining a re-election, Mr. McLean offered the following resolution, which was adopted:

*Resolved*, That the faithful, earnest, and eminently successful labors of

Professor Arthur Tannatt Woods, who for eight years has been the chief instructor or the director of the department of mechanical engineering in this University, have merited and received the warmest praise from all who have been concerned therein. That we sincerely regret his departure, and wish, as we have every reason to expect, that abundant success and prosperity may attend him in his new field of labor.

*Resolved*, That the Secretary be instructed to forward to Professor Woods a copy of these resolutions.

On motion of Mr. Morgan, the following resolution from the Finance Committee was approved:

*Resolved*, That the Treasurer be and is hereby instructed not to loan any of the endowment fund of this University except strictly in conformity with all acts of congress and of the legislature of this state in respect thereto. And if at any time he is unable to make investments and re-investments of the funds at the full rate of five per cent. interest per annum, it shall be his duty at once to notify the President of the Board so that the Trustees shall be called together to take action in respect thereto.

By request of the President, Mr. Shawhan then took the chair.

The Secretary stated that the edition of the pamphlet containing the laws concerning the University was exhausted, and, on motion of Mr. Morgan, he was directed to compile these laws anew and have 250 copies of them printed.

The following communication was received from Dr. Peabody:

REGENT'S OFFICE, UNIVERSITY OF ILLINOIS, June 10, 1891.

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

GENTLEMEN: I hereby resign the office of Regent of the University of Illinois, the resignation to take effect at such time as you may elect.

Respectfully,

SELIM H. PEABODY.

On motion of Mr. Morgan, the resignation was accepted, to take effect September 1, 1891.

On motion of Mr. McKay, it was voted that a committee be appointed to prepare suitable resolutions upon this resignation. The President appointed Messrs. McKay, Cobb and Graham.

The resolutions, which were filed later, are as follows:

WHEREAS, Dr. S. H. Peabody has resigned the Regency of this University, which office he has held for eleven years, during which time this institution has achieved its greatest success;

AND WHEREAS, This Board deems it a pleasure to recognize the services of Dr. Peabody and to testify to his sterling character, his ability as an educator, and his worth as an executive officer; now, therefore, be it

*Resolved*, That this Board extends to Dr. Peabody its hearty thanks for his past services, its regrets that he is to retire; and, appreciating the value of his services in the past, this Board records the fact that during his administration the attendance on the University has been greatly increased; that through his efforts its name has been changed to represent more truly the high standard the University has sought to attain in its educational work; that, financially, and as an educational institution the University has been placed upon a firm and broad foundation; that to the untiring industry and energy of Dr. Peabody is largely due the success of the University in these material advances; that during his entire administration his relations with the Board have been most cordial and harmonious.



*Resolved*, That it is the desire of this Board to express its highest appreciation of Dr. Peabody's faithful service to the state, to the University, and to the cause of higher education, as well as of his splendid executive ability.

*Resolved*, That these resolutions be spread upon the records of this Board and that the Secretary present an engrossed copy of the same to Dr. Peabody.

On motion of Mr. Morgan, it was voted that the President appoint a committee whose duty it shall be to ascertain what the cost would be of advertising the University at the several county seats of the state by handsomely printed placards, and to ascertain what funds, if any, would be available for such purpose.

On motion of Mr. Bryant, the President, the Secretary, and Mr. Morgan were appointed such committee.

On motion of Mr. Cobb, it was voted that the Secretary add to the minutes of the March meeting the statement of the Regent of the University in regard to the military troubles investigated by the Trustees at that meeting; also that he be instructed to print 2,000 copies of a full statement of the Foster North case.

On motion of Mr. Cobb, the usual appropriation of \$600 was made for advertising.

The Regent nominated Mr. Thomas A. Clark to be instructor in mathematics for the next year at a salary of \$750 for the ten months beginning September 1, 1891, and the nomination was approved.

The Finance Committee for the year 1890-91 filed the following report, which approved for record:

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

GENTLEMEN: Your former Finance Committee reports that it has examined and compared the books of the Treasurer with the warrants drawn upon him for the year beginning March 1, 1890, No. 501 to 967 to September 1, 1890, and No. 1 to 550 to March 1, 1891, and found all to be in order and correct. The warrants were canceled and left in the hands of the Treasurer.

F. M. MCKAY, } *Finance Committee for 1890-91.*  
S. A. BULLARD. }

*Urbana, June 9, 1891.*

The Board directed the Committee on Instruction, to which Messrs. Cobb and Graham were added for the purpose of this duty, to make diligent search for a suitable man to be appointed Regent of the University.

The Finance Committee returned the Treasurer's bond, upon which it had endorsed its approval. The bond is for \$300,000.

The President appointed as the committee on the revision of rules for the government of the students Mr. Shawhan, as chairman, Messrs. Graham and McLean, and Professors Morrow, Ricker, Forbes and Snyder, the Deans of the several Colleges.

The Board then adjourned to meet at 3 o'clock p. m.

## AFTERNOON SESSION.

When the Board came together pursuant to adjournment it was found that Messrs. Bullard, Graham, Morgan and Shawhan were the only members present, and these not being a quorum, the Board adjourned.

W. L. PILLSBURY,  
*Secretary.*

S. A. BULLARD,  
*President.*

# MEETING OF AUGUST 7, 1891.

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, at 3 o'clock p. m., Friday, August 7, 1891, pursuant to the following notice, which had been duly issued by the Secretary:

## CALL FOR MEETING.

UNIVERSITY OF ILLINOIS, URBANA, ILL., July 28, 1891.

DEAR SIR: By order of the President, Mr. Bullard, there will be a special meeting of the Board of Trustees of the University of Illinois, in the University Parlor, in Urbana, at 3 o'clock p. m., Friday, August 7, 1891, for these purposes:

1. To act upon plans for the new building.
2. To fill vacancies in the corps of instructors.
3. To transact other business as found necessary.

Respectfully yours,

W. L. PILLSBURY, *Secretary.*

To.....

.....

After this notice had been read the roll-call of members showed that Messrs. Bullard, Clemens, Cobb, Funk, Graham, McKay, Raab, and Shawhan were present, and that Governor Fifer and Messrs. Bryant, McLean, and Morgan were absent.

The special committee appointed to prepare plans and estimates for the new building reported as follows:

## PLANS FOR NEW BUILDING.

*To the Board of Trustees.*

GENTLEMEN: Your special committee appointed to prepare plans and estimates for a new natural science building asks to report:

The committee held a meeting June 19th, and after due consideration employed Professor N. C. Ricker as architect and superintendent of the building, at a compensation of three per cent. of the cost of the building, he to prepare plans, drawings, estimates of cost, specifications, etc., and to have a general supervision of the building.

The architect was instructed to prepare sketches, estimates, and a synopsis of the specifications of the building, according to general plans already adopted and according to suggestions of the members of the Faculty at the head of the departments to use the said building.

These we lay before you to-day for your consideration. Some minor changes may yet have to be made, but such are unimportant.

Respectfully submitted,

S. A. BULLARD, }  
S. A. FORBES, } *Special*  
T. J. BURRILL, } *Committee.*

August 7, 1891.

Professor Ricker made a full explanation of the plans presented.

This report was then taken up, and, on motion of Mr. Cobb, was divided for consideration.

The action of the committee in employing Professor Ricker was approved and the compensation agreed to on motion of Mr. Cobb.

On motion of Mr. Raab, the plans submitted were approved.

It was then voted to consider the question of site for the building, and after a recess taken to look over the site proposed, on motion of Mr. Cobb, it was voted that the southwest corner of the building be at a point about 110 feet diagonally north and east of the northeast corner of the Chemical Laboratory, according to a stake now set.

On motion of Mr. Raab, the President and Secretary were instructed to advertise for bids for the construction of the building, the bids to be presented by noon of September 7, 1891, and to be tabulated and presented to the Board for consideration at its next regular meeting.

The Committee on Instruction made the following report:

*To the Board of Trustees.*

GENTLEMEN: Your Committee on Instruction recommends appointments as follows:

For the ensuing year—	
W. J. Baldwin, professor of mining engineering, salary.....	\$1,600 00
Edward Manley, professor of physical culture, salary.....	1,600 00
For ten months, from September 1, 1891—	
G. M. Hobbs, assistant in physical laboratory, salary.....	600 00
J. H. Powell, assistant in projection drawing, salary.....	600 00
R. H. Forbes, second assistant in chemistry, salary.....	600 00

F. M. MCKAY, }  
G. R. SHAWHAN, } *Committee on*  
HENRY RAAB, } *Instruction.*

The appointments were made as recommended.

On motion of Mr. Raab, it was voted to give Dr. Peabody leave of absence to September 1st.

Professor Burrill was then, on motion of Mr. Raab, appointed Acting Regent to serve from the present time until the regency should be filled by regular appointment.

An appropriation for collections in Professor Ricker's department was made from the state appropriation for apparatus and material, \$100.

The Regent, Dr. Peabody, was then called upon to present any business needing consideration by the Board at this time, and after thanking the trustees for the leave of absence just granted, he called attention to the following items:

1. A delegate or delegates should be appointed to attend the meeting of the Association of American Agricultural Colleges and Experiment Stations, at Washington, D. C., opening next week, August 12th.
2. A petition of the Academy is herewith presented for use of a room in which to hold its meetings.
3. My resignation as President of the Board of Direction of the Experiment Station is herewith tendered. This will involve the naming of a President or Acting President.

REGENT'S OFFICE, }  
CHAMPAIGN, August 7, 1891. }

*To the Trustees of the University of Illinois.*

GENTLEMEN: I respectfully resign my appointment as a member of the Board of Direction of the Experiment Station, and President thereof, to take effect at your pleasure.

Respectfully,  
SELIM H. PEABODY.

Dr. Peabody also presented a

#### REPORT ON MINNESOTA LANDS.

URBANA, August 7, 1891.

*To the Trustees of the University of Illinois.*

GENTLEMEN: The committee on sale of Minnesota lands begs leave to report as follows:

For a time this committee was charged with the sale of lands in Minnesota and Nebraska. The lands in the latter named state were all sold, and were reported upon finally June 11, 1889. [*Report for 1890, page 66.*]

November 15, 1889, the Executive Committee gave authority to this committee to sell the lands in Minnesota, at not less than \$10 per acre.

June 10, 1890, the committee reported specially on the lands in Pope county, Minn., and the Trustees authorized the sale of the lands in that county at prices not less than \$6 per acre.

Accordingly, Mr. Peabody visited and inspected the land in Pope county, in August, 1890, making specific notes upon each forty-acre subdivision. Pursuant to this inspection, a new appraisal of these lands was made, and they were offered for sale at prices ranging from \$6 to \$12.50 per acre, the average being over \$10 per acre. The indications are that the prices fixed are above the present market value of these lands, as scarcely any of them have been sold.

The lands in Kandiyohi and Renville counties remain for sale at \$10 per acre, in quarter section lots. The latter condition obtains because no inspection by smaller subdivisions has been made. But it has been agreed that if parties should at any time buy the whole of a quarter section, title would be given in parts, if the buyers should so desire.

The lands in Pope county are offered for sale in forty-acre subdivisions.

When the lands in Pope county were inspected in the fall of 1886, it was found that the Minneapolis and Pacific Railway had built a track across some of the land. The matter was investigated, and reported to the Trustees, and by their order [*Report 1888, page 43*] settlement was made with the railway for the land taken, and a deed given.

Including this sale, the sales of Minnesota lands to date, August 7, 1891, have been as follows:

Date.	To whom sold.	Tract.	Acres.	Price per acre.	Cash.	On time.
March 10, 1887	Minneapolis & Pacific Railway.....	Right of way.....	17.45	\$10 00	\$174.50	
August 1, 1890	Reier O. Bratten.....	Fractional triangle cut off by railway..	36.17	6 00	54 25	\$162 75
March 16, 1891	Eric Lindquist.....	SE¼ 2, 116.35.....	160	10 00	400 00	1,200 00
March 25, 1891	Jozet Cuta.....	NE¼ 12, 116.35.....	160	10 00	400 00	1,200 00
	Wenzl Kopacek.....	SW¼ 20, 117.31.....	160	10 00	400 00	1,200 00
May 1, 1891	Peter Larssen.....	NW¼ 27, 124.36.....	160	10 00	400 00	1,200 00
May 19, 1891	Thos. D. Davidson....	NW¼ 6, 116.32.....	155.03	10 00	387 57	1,162 73
June 5, 1891	Frank Topka.....	SWSE 13, 124.37.....	40	7 00	70 00	210 00
June 10, 1891	Berthel Pederson....	NWSE 13, 124.37.....	40	7 00	70 00	210 00
June 10, 1891	Lars Ingebrigtsen..	SESE 13, 124.37.....	40	7 00	70 00	210 00
June 12, 1891	Thomas Petersen....	SW¼ 10, 117.35.....	160	10 00	400 00	1,200 00
July 20, 1891	L. Andrew Treibey..					

Making a total sale of 1,128.65 acres.

Cash received.....	\$2,826 42
Amounts due.....	7,955 48
Total sales.....	\$10,781 90

All of which is respectfully submitted,

S. H. PEABODY, ) *Committee on*  
S. W. SHATTUCK, ) *Minnesota Lands.*

On motion of Mr. Raab, the resignation was accepted, to take effect September 1, 1891, and the report on Minnesota lands was approved for record.

On motion of Mr. Cobb, Professor Morrow and Mr. Farrington were appointed delegates to represent, respectively, the University and the Experiment Station at the next meeting of the Association of American Agricultural Colleges and Experiment Stations, and \$75 was appropriated from current funds to defray their expenses.

Professor Morrow was, on motion of Mr. Cobb, elected President of the Board of Direction of the Experiment Station, to take effect September 1, 1891.

The petition of the Academy was referred to the Committee on Buildings and Grounds, with instructions to report at the next meeting of the Board.

#### REPORT OF BUSINESS AGENT.

The Business Agent, Professor Shattuck, then presented the following report:

AUGUST 7, 1891.

*S. A. Bularl, Esq., President Board of Trustees, University of Illinois.*

DEAR SIR: The Board is asked to authorize the payment of the inclosed bill of Hubbard & Sons for repairs on the towers of University Hall. One hundred and fifty dollars additional for immediate repairs of roofs of the University buildings is needed. A much larger amount could well be expended on them, but the above sum is necessary.

Professor Stratton requests that \$500 more be assigned for electric apparatus, and that \$275 be granted for the floor and partition of the electric room. The floor has been put in under the authority of the

Regent. He also asks for a partition in the physical laboratory, to cut off a tool and work room, to cost \$40, and \$175 for a lathe and tools.

Professor Palmer requests that \$300 be appropriated for the partition and cases, etc., of a scale room in the chemical laboratory, which he says are a necessity.

Additional settees are required in two rooms, to cost \$115.

The present appropriation for Board expenses is fully expended.

The appropriations asked for may be classed and assigned as given in Paper B.

Respectfully submitted,

S. W. SHATTUCK, *Business Agent*.

Appropriations were then made as asked by the Business Agent:

<b>From current funds—</b>	
Board expense.....	\$500 00
Electric laboratory, floor and partition.....	275 00
Physical laboratory, partition.....	40 00
Chemical laboratory, partition.....	150 00
<b>From U. S. fund—</b>	
Chemical laboratory, scales, cases, etc.....	150 00
Physical laboratory, lathe and tools.....	175 00
Electric laboratory, apparatus.....	500 00
<b>From state appropriation for buildings and grounds—</b>	
General repairs on roof, Hubbard & Sons' bill.....	119 58
General repairs, painting, etc.....	150 00
<b>From state appropriation for furniture—</b>	
Settees for two rooms.....	115 00

The Committee on Buildings and Grounds reported that it had looked into the matter of building a dry room and lumber sheds, as requested by Professor Ricker, and that it recommended their construction, and that an appropriation of \$1,000 be made for this purpose from current funds.

On motion of Mr. Cobb, the recommendation was approved and the appropriation was made.

The proposition for advertising in the *Chicago Graphic*, which had been left with the Secretary by Mr. C. S. Bouton, was referred to the committee in charge of the advertising, with instructions to report at the next meeting.

The special committee on revision of rules made a partial report, and asked that another special committee be appointed to consider the subject of the reorganization of the military department.

The proposition of the committee was agreed to and the Acting Regent, the President and Mr. Shawhan were appointed.

Mr. McKay's bill for traveling expenses was allowed; amount, \$158.70.

And the Board adjourned.

S. A. BULLARD, *President*.

W. L. PILLSBURY, *Secretary*.

*List of Warrants for Year Ending August 31, 1891.*

No.	Date.	To Whom.	For What.	Amount.
	1890.			
1	Sept. 30.	S. H. Peabody	Salary, September, 1890	\$333 33
2	" 30.	T. J. Burrill	" "	141 66
3	" 30.	S. W. Shattuck	" "	166 66
4	" 30.	E. Snyder	" "	166 66
5	" 30.	N. C. Ricker	" "	166 66
6	" 30.	J. D. Crawford	" "	166 66
7	" 30.	G. E. Morrow	" "	141 66
8	" 30.	I. O. Baker	" "	166 66
9	" 30.	S. A. Forbes	" "	83 33
10	" 30.	J. H. Brownlee	" "	166 66
11	" 30.	C. W. Rolfe	" "	166 66
12	" 30.	D. McIntosh	" "	150 00
13	" 30.	N. Butler, Jr	" "	166 66
14	" 30.	A. T. Woods	" "	166 66
15	" 30.	S. R. Winchell	" "	166 66
16	" 30.	A. N. Talbot	" "	150 00
17	" 30.	A. W. Palmer	" "	150 00
18	" 30.	F. F. Frederick	" "	133 33
19	" 30.	S. W. Stratton	" "	116 66
20	" 30.	G. W. Myers	" "	83 33
21	" 30.	Fanny M. Ryan	" "	80 00
22	" 30.	G. W. Parker	" "	100 00
23	" 30.	R. Anderson	" "	133 33
24	" 30.	H. S. Brode	" "	90 00
25	" 30.	H. S. Grindley	" "	90 00
26	" 30.	R. W. Cornelison	" "	60 00
27	" 30.	E. S. Keene	" "	75 00
28	" 30.	J. M. White	" "	75 00
29	" 30.	S. D. Bawden	" "	75 00
30	" 30.	Edith A. Shattuck	" "	40 00
31	" 30.	Cleaves Bennett	" "	75 00
32	" 30.	A. B. Baker	" "	70 00
33	" 30.	A. J. Stoneburner	" "	20 00
34	" 30.	John Marten	" "	75 00
35	" 30.	Mary J. Snyder	" "	50 00
36	" 30.	C. A. Hart	" "	50 00
37	" 30.	G. P. Clinton	Salary, August, 1890	50 00
38	" 30.	Pantagraph P't'g & Sta. Co	Making writing tablets	12 50
39	" 30.	H. C. McCook	Volume 2, American Spiders	10 00
40	" 30.	A. Friedlander & Sohn	Periodicals	92 32
41	" 30.	O. A. Harker	Board expense	27 50
42	" 30.	R. Edwards	" "	8 00
43	" 30.	S. A. Bullard	" "	29 25
44	" 30.	G. S. Haskell	" "	6 00
45	" 30.	Chas. Bennett	" "	9 36
46	" 30.	A. McLean	" "	23 19
47	" 30.	F. M. McKay	" "	15 00
48	" 30.	Emily Cobb	" "	1 50
49	" 30.	S. H. Peabody	Traveling expenses	123 31
50	" 30.	J. W. Bunn	Premium on bonds	389 37
51	Oct. 15.	E. P. Niles	Boarding quartet	6 00
52	" 15.	Grace Peabody	Salary, etc.	31 60
53	" 15.	Union Water Supply Co	Water, 3 months	100 00
54	" 15.	Chicago Carpet Co.	Mats	11 00
55	" 15.	The Tobey Furniture Co.	Desk	20 00
56	" 15.	Abendroth & Root Mfg. Co.	Gaskets	13 50
57	" 15.	Central Union Telephone Co	Rent, 3 months	15 00
58	" 15.	James W. Queen & Co.	Concave lens, etc.	27 75
59	" 15.	C. Hennecke Co.	Paster casts	12 96
60	" 15.	E. H. Sargent & Co.	Chemical supplies and apparatus	268 90
61	" 15.	Goodyear Rubber Co	Tubing	15 73
62	" 15.	A. G. Manns	Ether and acids	49 30



*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1890.			
63	Oct. 15	Champaign Gas Co.	Gas, 3 months.	\$50 00
64	" 15	Fuller & Fuller Co.	Mercury, etc.	72 22
65	" 15	Robinson & Burr	Fittings and labor.	191 58
66	" 15	Baker & Adamson.	Acids	70 25
67	" 15	Bliss, Bullard & Gormley.	Hardware.	37 50
68	" 15	Lyons & Healy.	Music and instruments.	71 11
69	" 15	A. C. Kemper.	Magnesia coverings	56 93
70	" 15	Pond Engineering Co.	New boiler.	919 70
71	" 15	G. F. Matthew.	Cambrian fossils.	50 00
72	" 15	John Ludwick.	Sand	1 88
73	" 15	Agricultural department.	Expenses, September, 1890.	117 42
74	" 15	Pay-roll of workmen.	Labor, September, 1890.	212 00
75	" 15	Pay-roll of students.		155 96
76	" 31	S. H. Peabody.	Salary, October, 1890.	333 33
77	" 31	T. J. Burrill.	"	166 66
78	" 31	S. W. Shattuck.	"	166 66
79	" 31	E. Snyder.	"	166 66
80	" 31	N. C. Ricker.	"	166 66
81	" 31	J. D. Crawford.	"	166 66
82	" 31	G. E. Morrow.	"	166 66
83	" 31	L. O. Baker.	"	166 66
84	" 31	S. A. Forbes.	"	83 33
85	" 31	J. H. Brownlee.	"	156 66
86	" 31	C. W. Rofe.	"	166 66
87	" 31	D. McInosh.	"	150 00
88	" 31	N. Butler, Jr.	"	166 66
89	" 31	A. T. Woods.	"	166 66
90	" 31	S. R. Winchell.	"	166 66
91	" 31	A. N. Talbot.	"	150 00
92	" 31	A. W. Palmer.	"	150 00
93	" 31	F. F. Fredeick.	"	133 33
94	" 31	S. W. Stratton.	"	116 66
95	" 31	G. W. Myers.	"	83 33
96	" 31	Fanny M. Ryan.	"	80 00
97	" 31	G. W. Parker.	"	100 00
98	" 31	R. Anderson.	"	133 33
99	" 31	H. S. Brode.	"	90 00
100	" 31	H. S. Grindley.	"	90 00
101	" 31	R. W. Cornelison.	"	60 00
102	" 31	E. S. Keene.	"	75 00
103	" 31	J. M. White.	"	75 00
104	" 31	S. D. Bawden.	"	75 00
105	" 31	Edith A. Shattuck.	"	40 00
106	" 31	C. Bennett.	Salary, September and October, 1890.	75 00
107	" 31	Clara Maud Kimball.	Salary, October, 1890.	50 00
108	" 31	Grace Peabody.	"	25 00
109	" 31	A. B. Baker.	"	70 00
110	" 31	A. J. Stoneburner.	"	40 00
111	" 31	H. Meeks.	"	25 00
112	" 31	H. Jenkins.	"	30 00
113	" 31	John Mar'en.	"	75 00
114	" 31	Mary J. Snyder.	"	50 00
115	" 31	C. A. Hart.	"	50 00
116	" 31	McIntosh Bat. & Opt. Co.	Stage for Zeiss stand, etc.	18 00
117	" 31	Ginn & Co.	Journal of Morphology.	9 00
118	" 31	T. J. Burrill.	Express charges paid.	1 20
119	" 31	N. D. C. Hodges.	Subscription to Science.	3 50
120	" 31	Pantagraph Ptg. & Sta. Co.	Binding books.	192 44
121	" 31	A. C. McClurg & Co.	Books and stationery.	53 36
122	" 31	W. B. Jacobs.	Advertising.	5 00
123	" 31	J. W. Spading.	Postage.	21 00
124	" 31	Amberg File & Index Co.	Cabinet indexes, etc.	1 40
125	" 31	Lord & Thomas.	Advertising.	225 05
126	" 31	Leonard Scott Pub. Co.	Edinburgh Review.	4 00
127	" 31	McDonnell Bros.	Century Dictionary.	5 00
128	" 31	U. S. Patent Office.	Binding reports 1890.	31 20
129	" 31	Heer & Seelig.	Surveying instruments.	36 12
130	" 31	Chas. A. Besley & Co.	Hardware.	3 60
131	" 31	J. W. Butler Paper Co.	Paper.	20 25
132	" 31	Prang Educational Co.	Geometrical solids.	7 95
133	" 31	Western Electric Co.	Carbon, battery, etc.	9 34
134	" 31	Fauth & Co.	Graduated level vial.	6 00
135	" 31	W. W. Lindley.	Postage stamps.	6 00
136	" 31	Yale & Towne Mfg. Co.	Repairs, etc.	12 30
137	" 31	Crane Company.	Iron pipe.	43 88
138	" 31	Educational Supply Co.	Bottles, etc.	6 00
139	" 31	Henry Trevett.	Hardware.	8 33
140	" 31	Ferris Bros.	American Naturalist.	4 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1890.			
141	Oct. 31	Pacific Express Co	Freight charges	51 55
142	31	U. S. Express Co	Express charges	3 41
143	31	American Express Co		21 60
144	31	Wabash Railroad Co	Freight charges	6 16
145	31	Illinois Central Railroad Co		5 30
146	31	A. H. Andrews & Co	Settees, etc	58 15
147	31	W. L. Elder	Desk	17 00
148	31	Ass. Am. Ag. Col. & Exp. Sta.	Expenses Executive Committee	25 00
149	31	Public School Pub. Co	Advertising	6 00
150	31	Yale & Towne Mfg. Co	Locks and repairs	16 91
151	Nov. 15	R. L. Polk & Co	Directory and advertisement	25 00
152	15	J. W. Spalding	Postage	10 00
153	15	Geo. E. Marshall & Co	Blank book	6 50
154	15	A. M. Coffeen	Coal	292 05
155	15	American Express Co	Freight charges	9 80
156	15	Illinois Central R. R. Co		20 29
157	15	Liquid Carb. Acid Mfg. Co.	Liquid carbonic acid gas	4 00
158	15	W. L. Pillsbury	Expenses to Springfield	7 50
159	15	D. A. Stuart & Co	Oil	10 50
160	15	A. Bevis	Paper, etc	4 25
161	15	Agricultural department	Expenses, October, 1890	226 10
162	15	Cincinnati Corrugating Co.	Roofing	87 59
163	15	Western Stone Co.	Door-sills, etc	16 83
164	15	Goodyear Rubber Co.	Rubber mats	12 50
165	15	Marshall Field & Co.	Chapel curtains	36 10
166	15	Johns Hopkins Press	Book	7 50
167	15	Railroad Gazette	Subscription	2 10
168	15	Engineering News Pub. Co.	Thames River Bridge Report	5 00
169	15	Popular Science News	Subscription	2 00
170	15	Lilly M. Hart	Making chart	1 50
171	15	C. F. Adams	Taxidermy, etc	42 23
172	15	Northwestern Cal'm Light Co.	Testing cylinder	10 00
173	15	Technology Archl. Review	Subscription	3 00
174	15	Pay-roll of men	Labor, October, 1890	527 60
175	15	Pay-roll of students		140 75
176	29	S. H. Peabody	Salary, November, 1890	333 33
177	29	T. J. Burrill		191 66
178	29	S. W. Shattuck		166 66
179	29	E. Snyder		166 66
180	29	N. C. Ricker		166 66
181	29	J. D. Crawford		166 66
182	29	G. E. Morrow		191 66
183	29	I. O. Baker		166 66
184	29	S. A. Forbes		83 33
185	29	J. H. Brownlee		166 66
186	29	C. W. Rolfe		166 66
187	29	D. McIntosh		150 00
188	29	N. Butler, Jr		166 66
189	29	A. T. Woods		166 66
190	29	S. R. Winchell		166 66
191	29	A. N. Talbot		150 00
192	29	A. W. Palmer		150 00
193	29	F. F. Frederick		133 33
194	29	S. W. Stratton		116 66
195	29	G. W. Myers		83 33
196	29	Fanny M. Ryan		80 00
197	29	G. W. Parker		100 00
198	29	R. Anderson		133 33
199	29	H. S. Brodeur		90 00
200	29	H. S. Grindley		90 00
201	29	R. W. Cornelison		60 00
202	29	E. S. Keene		75 00
203	29	J. M. White		75 00
204	29	S. D. Bawden		75 00
205	29	Edith A. Shattuck		40 00
206	29	C. Bennett		75 00
207	29	Clara Maud Kimball		25 00
208	29	Grace Peabody		25 00
209	29	M. Schmidt		110 00
210	29	A. B. Baker		70 00
211	29	A. J. Stoneburner		40 00
212	29	H. Meeks		25 00
213	29	H. Jeakins		30 00
214	29	John Marten		75 00
215	29	Mary J. Snyder		50 00
216	29	C. A. Hart		50 00
217	29	A. M. Westergren		46 00
218	29	W. L. Pillsbury	3 months	125 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1890.			
219	Nov. 29	S. W. Shattuck.	Salary, 3 months.	\$150 00
220	" 29	C. C. & St. L. Ry. Co.	Freight charges	3 04
221	" 29	Western Union Tel. Co.	"	5 08
222	" 29	Wabash Railroad Co.	"	2 94
223	" 29	Pacific Express Co.	"	3 25
224	" 29	Lyon & Healy.	Clarinet case	1 88
225	" 29	Jones & Laughlins	Shafting.	1 33
226	" 29	Ento. Society, Washington.	Proceedings	1 00
227	" 29	Cassino Art Co.	Naturalists' Directory, 1890.	2 07
228	" 29	E. H. Sargent & Co.	Chemicals	2 48
229	" 29	Maltby & Wallace	Pipe and fittings.	4 35
230	" 29	J. W. Franks & Sons.	Printing	195 30
231	" 29	McIntosh Bat. & Opt. Co.	Microscope, etc.	40 65
232	" 29	Bausch & Lomb Opt. Co.	Objectives, etc.	52 18
233	" 29	J. A. Fay & Co.	Shafting, belting, etc.	33 24
234	" 29	Sereno Watson	Sullivan's Icones	18 00
235	" 29	Chicago Carpet Co.	Mats.	7 00
236	" 29	Champaign Gas Co.	Gas, October, 1890.	98 00
237	" 29	F. K. Robeson & Bro.	Crash toweling.	8 35
238	" 29	Fuller & Fuller Co.	Glass, etc.	19 85
239	" 29	A. M. Coffeen	Coal	100 00
240	" 29	Heller & Toy.	"	5 45
241	" 29	G. A. Bort	Work on insectory.	89 50
242	" 29	A. E. Foote	Alpine Botanical Atlas.	7 00
243	" 29	J. W. Queen & Co.	Microscopes, etc.	120 50
244	" 29	P. W. Davis	Sand	25 50
245	" 29	C. H. Besley & Co.	Hardware	8 60
246	" 29	D. McLennen	Police service	18 00
247	" 29	Crane Company	Cotton waste.	5 00
248	" 29	J. W. Spalding	Postage.	5 00
249	" 29	Fuller & Fuller Co.	Glass.	9 94
250	" 29	Eimer & Amend.	Apparatus and supplies.	28 30
251	" 29	Hektograph Mfg. Co.	Hektograph.	5 00
252	" 29	E. H. Sargent & Co.	Chemical apparatus and supplies.	324 22
253	" 29	Champaign Co. Gazette.	Printing and blanks.	57 25
254	" 29	Champaign Co. Herald.	"	27 00
255	" 29	Ill. Cent. R. R. Co.	Freight charges.	148 35
256	" 29	Champaign Gas Co.	Gas, November, 1890.	73 00
257	" 29	Enterprise Coal & Coke Co.	Coal.	130 00
258	" 29	Jas. B. Clow & Son.	Fittings.	53 21
259	" 29	A. M. Coffeen	Coal.	33 33
260	" 29	Robinson & Burr.	Labor and material.	15 51
261	" 29	Henry Trevett.	Hardware and stoves	236 20
262	" 29	Oscar Miller.	Hardware	10 05
263	" 29	Geo. Besore	Lumber.	661 61
264	" 29	Sheldon Brick Co.	Brick.	485 25
265	" 29	R. S. Wilber	Drayage.	30 50
266	" 29	Pay-roll men and women.	Labor, November, 1890.	317 07
267	" 29	Pay-roll of students.	"	161 50
268	" 29	S. W. Shattuck.	Petty expenses, 3 months.	27 31
269	" 29	Horticultural department.	Expenses, November, 1890.	11 68
270	" 29	Agricultural department.	"	163 68
271	" 29	Agricultural department.	Men and teams.	19 25
272	" 29	Mechanical department.	Labor, material and power	164 45
273	" 29	Mechanical department.	"	286 46
274	" 29	Architectural department.	"	164 90
275	" 29	Architectural department.	"	535 08
276	Dec. 9	A. McLean.	Board expense.	60 60
277	" 9	Chas. Bennett.	"	23 16
278	" 9	Emory Cobb.	"	2 00
279	" 9	O. A. Harker.	"	14 00
280	" 9	S. A. Bulard.	"	23 90
281	" 9	F. M. McKay.	"	16 50
282	" 9	J. W. Bunn	Tax sales, purchases.	83 17
283	" 9	T. D. Davidson.	Overseeing lands.	5 00
284	" 9	Dibble Publishing Co.	Book.	3 00
285	" 9	Mass. Board of Agriculture.	Reports.	3 00
286	" 9	Kenyon News Agency.	Subscriptions.	211 55
287	" 9	A. C. McClurg & Co.	Books and stationery	44 12
288	" 9	E. O. Vaile	Directory of Illinois.	1 00
289	" 9	Union Water Supply Co.	Water, 3 months.	100 00
290	" 9	Chicago Carpet Co.	Mats.	6 00
291	" 9	J. W. Bouton	Great Cathedrals.	10 00
292	" 9	Heller & Brightly.	Transit, etc.	210 00
293	" 9	D. L. Roots.	Lumber and labor	25 00
294	" 9	Jilly M. Hart.	Botanical drawings.	10 50
295	" 9	T. J. Burrill	Expenses.	2 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1890.			
296	Dec. 9.	A. Russell	Boxes.....	\$2 00
297	" 9.	American Express Co.	Charges.....	6 64
298	" 9.	A. Bevis	Blue prints.....	2 40
299	" 9.	A. N. Talbot	Level books, etc.....	1 11
300	" 9.	I. O. Baker	Petty expenses.....	3 18
301	" 31.	S. H. Peabody	Salary, December, 1890.....	333 33
302	" 31.	T. J. Burrill	" ".....	166 66
303	" 31.	S. W. Shattuck	" ".....	166 66
304	" 31.	E. Synder	" ".....	166 66
305	" 31.	N. C. Ricker	" ".....	166 66
306	" 31.	J. D. Crawford	" ".....	166 66
307	" 31.	G. E. Morrow	" ".....	166 66
308	" 31.	I. O. Baker	" ".....	166 66
309	" 31.	S. A. Forbes	" ".....	83 33
310	" 31.	J. H. Brownlee	" ".....	166 66
311	" 31.	C. W. Rolfe	" ".....	166 66
312	" 31.	D. McIntosh	" ".....	150 00
313	" 31.	N. Butler, Jr.	" ".....	166 66
314	" 31.	A. T. Woods	" ".....	166 66
315	" 31.	S. R. Wine ell	" ".....	166 66
316	" 31.	A. N. Talbot	" ".....	150 00
317	" 31.	A. W. Palmer	" ".....	150 00
318	" 31.	F. F. Frederick	" ".....	133 33
319	" 31.	S. W. Stratton	" ".....	116 66
320	" 31.	G. W. Myers	" ".....	83 33
321	" 31.	Fanny M. Ryan	" ".....	8 00
322	" 31.	G. W. Parker	" ".....	100 00
323	" 31.	R. Anderson	" ".....	133 33
324	" 31.	H. S. Brode	" ".....	90 00
325	" 31.	H. S. Grindley	" ".....	90 00
326	" 31.	R. W. Cornelison	" ".....	60 00
327	" 31.	E. S. Keen	" ".....	75 00
328	" 31.	J. M. White	" ".....	75 00
329	" 31.	S. D. Bawden	" ".....	75 00
330	" 31.	Edith A. Shattuck	" ".....	40 00
331	" 31.	C. Bennett	" ".....	75 00
332	" 31.	Clara Maud Kimball	" ".....	25 00
333	" 31.	Grace Peabody	" ".....	25 00
334	" 31.	M. Schmidt	" ".....	110 00
335	" 31.	A. B. Baker	" ".....	70 00
336	" 31.	A. J. Stoneburner	" ".....	65 00
337	" 31.	H. Meeks	" ".....	14 00
338	" 31.	H. Jenkins	" ".....	30 06
339	" 31.	L. H. Walden	" ".....	25 00
340	" 31.	John Marten	" ".....	75 00
341	" 31.	Mary J. Snyder	" ".....	50 00
342	" 31.	C. A. Hart	" ".....	50 00
343	" 31.	A. M. Westergren	" ".....	100 00
344	" 31.	T. J. Burrill	6 mon'hs.....	100 00
	1891.			
345	Jan. 15.	Palace Cigar Store	Cigar boxes.....	3 00
346	" 15.	Typewriter Headquarters	Ribbons.....	4 50
347	" 15.	John Marten	Expenses.....	82 50
348	" 15.	J. W. Spalding	Postage.....	25 00
349	" 15.	S. A. Forbes	Expenses.....	36 39
350	" 15.	A. P. Cunningham	Nature, etc.....	5 48
351	" 15.	Clara Maud Kimball	Music fees, fall term, 1890.....	167 00
352	" 15.	Evans & Howard	Fire-clay and bricks.....	14 75
353	" 15.	John Gloy	Gymnastic apparatus.....	60 00
354	" 15.	J. W. Spalding	Postage.....	27 45
355	" 15.	G. I. Talbot	Advertising.....	10 00
356	" 15.	Public School Pub. Co.	" ".....	6 00
357	" 15.	A. C. McClurg & Co.	Stationery.....	39 95
358	" 15.	Lyon & Healy	Music, etc.....	3 19
359	" 15.	E. H. Sargent & Co.	Chemicals, etc.....	108 35
360	" 15.	Ja. W. Quent & Co.	Graduated circle.....	4 07
361	" 15.	M. C. Lilley & Co.	Swords and belts.....	112 90
362	" 15.	Bliss Bullard & Gormley	Hardware.....	43 11
363	" 15.	A. H. Abbott & Co.	Paper.....	6 85
364	" 15.	Crosby S. G. & V. Co.	3 way cock.....	5 25
365	" 15.	Pond Engineering Co.	Exhaust head, etc.....	27 90
366	" 15.	Jones & Laughlins	Iron, etc.....	48 07
367	" 15.	Schafer & Budenberg	Tachometer.....	40 00
368	" 15.	McDonnell Bros.	Century Dictionary.....	5 00
369	" 15.	F. P. Smith W. & I. Works.	Iron pickets.....	15 85
370	" 15.	C. F. Adams	Work in museum.....	90 00
371	" 15.	C. U. Telephone Co.	Rent, 3 months.....	15 09
372	" 15.	Ill. Cent. R. R. Co.	Freight charges.....	198 83

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
373	Jan. 15....	Agricultural department....	Expense, December, 1890.....	\$98 08
374	" 15....	Pay roll men and women....	labor, December, 1890.....	359 93
375	" 15....	Pay roll students.....	" " " " " "	242 56
376	" 31....	S. H. Peabody.....	Salary, January, 1891.....	333 33
377	" 31....	T. J. Burrill.....	" " " " " "	166 66
378	" 31....	S. W. Shattuck.....	" " " " " "	166 66
379	" 31....	E. Synder.....	" " " " " "	166 66
380	" 31....	N. C. Ricker.....	" " " " " "	166 66
381	" 31....	J. D. Crawford.....	" " " " " "	166 66
382	" 31....	G. E. Morrow.....	" " " " " "	166 66
383	" 31....	I. O. Baker.....	" " " " " "	166 66
384	" 31....	S. A. Forbes.....	" " " " " "	83 33
385	" 31....	J. H. Brownlee.....	" " " " " "	166 66
386	" 31....	C. W. Rolfe.....	" " " " " "	166 66
387	" 31....	D. McIntosh.....	" " " " " "	150 00
388	" 31....	N. Builer, Jr.....	" " " " " "	166 66
389	" 31....	A. T. Woods.....	" " " " " "	166 66
390	" 31....	A. N. Talbot.....	" " " " " "	150 00
391	" 31....	A. W. Palmer.....	" " " " " "	150 00
392	" 31....	F. F. Frederick.....	" " " " " "	133 33
393	" 31....	Chas. DeGarmo.....	" " " " " "	166 66
394	" 31....	S. W. Parr.....	" " " " " "	150 00
395	" 31....	M. R. Paradis.....	" " " " " "	150 00
396	" 31....	H. J. Barton.....	" " " " " "	166 66
397	" 31....	S. W. Stratton.....	" " " " " "	116 66
398	" 31....	G. W. Myers.....	" " " " " "	83 33
399	" 31....	Fanny M. Ryan.....	" " " " " "	80 00
400	" 31....	G. W. Parker.....	" " " " " "	100 00
401	" 31....	R. Anderson.....	" " " " " "	133 33
402	" 31....	H. S. Brode.....	" " " " " "	90 00
403	" 31....	H. S. Grindley.....	" " " " " "	90 00
404	" 31....	R. W. Cornelison.....	" " " " " "	60 00
405	" 31....	E. S. Keene.....	" " " " " "	75 00
406	" 31....	J. M. White.....	" " " " " "	75 00
407	" 31....	S. D. Bawden.....	" " " " " "	75 00
408	" 31....	Edith A. Shattuck.....	" " " " " "	40 00
409	" 31....	M. Schmidt.....	" " " " " "	110 00
410	" 31....	Cleaves Bennett.....	" " " " " "	75 00
411	" 31....	Clara Maud Kimball.....	" " " " " "	25 00
412	" 31....	Grace Peabody.....	" " " " " "	25 00
413	" 31....	A. B. Baker.....	" " " " " "	70 00
414	" 31....	A. J. Stoneburner.....	" " " " " "	65 00
415	" 31....	W. A. Brown.....	" " " " " "	25 00
416	" 31....	H. Jeakins.....	" " " " " "	30 00
417	" 31....	L. H. Walden.....	" " " " " "	25 00
418	" 31....	John Marten.....	" " " " " "	75 00
419	" 31....	Mary J. Snyder.....	" " " " " "	50 00
420	" 31....	C. A. Hart.....	" " " " " "	50 00
421	" 31....	W. E. Sanders & Co.....	Insect pins.....	3 10
422	" 31....	C. W. Stromberg.....	Vial racks.....	10 50
423	" 31....	Champaign Tile Factory.....	Tile.....	7 05
424	" 31....	Lilly M. Hart.....	Botanical drawings.....	2 85
425	" 31....	Wm. Price.....	Painting.....	2 50
426	Feb. 14....	A. M. Westergren.....	Salary, January, 1891.....	100 00
427	" 14....	Ginn & Co.....	Books.....	10 75
428	" 14....	Joseph Bridgham.....	Entomological drawings.....	43 50
429	" 14....	G. C. Willis.....	Dry goods.....	4 55
430	" 14....	K. F. Koehler.....	Books.....	17 82
431	" 14....	Lilly M. Hart.....	Work in museum.....	8 55
432	" 14....	E. H. Sargent & Co.....	Laboratory supplies.....	32 75
433	" 14....	Ticknor & Co.....	Am. Arch. and Build. News.....	25 00
434	" 14....	Jas. M. White.....	Photographs.....	4 20
435	" 14....	J. Lindsay.....	Sand.....	9 00
436	" 14....	Crescent Steel Co.....	Steel bars.....	23 62
437	" 14....	Jas. W. Queen & Co.....	Eye-piece.....	2 50
438	" 14....	Champaign Gas Co.....	Gas, December, 1890.....	75 20
439	" 14....	A. P. Cunningham.....	Corks, etc.....	3 60
440	" 14....	H. H. Darby.....	Fencing and labor.....	25 42
441	" 14....	Chas. Bennett.....	Board expense.....	4 00
442	" 14....	The Illini.....	Advertising and blanks.....	17 67
443	" 14....	J. W. Spalding.....	Postage.....	23 00
444	" 14....	American Express Co.....	Freight charges.....	19 60
445	" 14....	Pacific Express Co.....	" " " " " "	2 10
446	" 14....	C. C. & St. L. Ry. Co.....	" " " " " "	3 03
447	" 14....	Ill. Cent. R. R. Co.....	" " " " " "	253 74
448	" 14....	Agricultural department.....	Expenses, January, 1891.....	109 68

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
449	Feb. 14, 1891.	Pay roll of men.....	Labor, January, 1891.....	\$248 74
450	" 14.	Pay roll of students.....		138 62
451	" 28.	S. H. Peabody.....	Salary, February, 1891.....	333 33
452	" 28.	T. J. Burrill.....		166 66
453	" 28.	S. W. Shattuck.....	" "	166 66
454	" 28.	E. Synder.....	" "	166 66
455	" 28.	N. C. Ricker.....	" "	166 66
456	" 28.	J. D. Crawford.....	" "	166 66
457	" 28.	G. E. Morrow.....	" "	166 66
458	" 28.	I. O. Baker.....	" "	166 66
459	" 28.	S. A. Forbes.....	" "	83 33
460	" 28.	J. H. Brownlee.....	" "	166 66
461	" 28.	C. W. Rolfe.....	" "	166 66
462	" 28.	D. McIntosh.....	" "	150 00
463	" 28.	N. Butler, Jr.....	" "	166 66
464	" 28.	A. T. Woods.....	" "	166 66
465	" 28.	A. N. Talbot.....	" "	150 00
466	" 28.	A. W. Palmer.....	" "	150 00
467	" 28.	F. F. Frederick.....	" "	133 33
468	" 28.	Chas. DeGarmo.....	" "	166 66
469	" 28.	S. W. Parr.....	" "	150 00
470	" 28.	M. R. Paradis.....	" "	150 00
471	" 28.	H. J. Barton.....	" "	166 66
472	" 28.	S. W. Stratton.....	" "	116 66
473	" 28.	G. W. Myers.....	" "	83 33
474	" 28.	Fanny M. Ryan.....	" "	80 00
475	" 28.	G. W. Parker.....	" "	100 00
476	" 28.	R. Anderson.....	" "	133 00
477	" 28.	H. S. Brode.....	" "	90 00
478	" 28.	H. S. Grindley.....	" "	90 00
479	" 28.	R. W. Cornelison.....	" "	60 00
480	" 28.	E. S. Keene.....	" "	75 00
481	" 28.	J. M. White.....	" "	75 00
482	" 28.	S. D. Bawden.....	" "	75 00
483	" 28.	Edith A. Shattuck.....	" "	40 00
484	" 28.	M. Schmidt.....	" "	110 00
485	" 28.	Cleaves Bennett.....	" "	75 00
486	" 28.	Clara Maud Kimball.....	" "	25 00
487	" 28.	Grace Peabody.....	" "	25 00
488	" 28.	A. B. Baker.....	" "	70 00
489	" 28.	A. J. Stoneburner.....	" "	65 00
490	" 28.	W. A. Brown.....	" "	25 00
491	" 28.	H. Jeakins.....	" "	30 00
492	" 28.	L. H. Walden.....	" "	25 00
493	" 28.	John Marten.....	" "	75 06
494	" 28.	Mary J. Snyder.....	" "	50 00
495	" 28.	C. A. Hart.....	" "	50 00
496	" 28.	W. L. Pillsbury.....	three months.....	125 00
497	" 28.	S. W. Shattuck.....		150 00
498	" 28.	D. A. Stuart & Co.....	Oils.....	16 50
499	" 28.	Chas. H. Besley & Co.....	Hardware.....	2 52
500	" 28.	Goodyear Rubber Co.....	Tubing.....	1 40
501	" 28.	A. H. Andrews.....	Settees.....	108 80
502	" 28.	J. Hamilton.....	Fencing.....	24 31
503	" 28.	John Gloy.....	Apparatus.....	9 00
504	" 28.	C. J. Sabin.....	Wheelbarrow.....	6 50
505	" 28.	Matthiessen & Hegeler.....	Granulated spelter.....	5 95
506	" 28.	Champaign Gas Co.....	Gas, January, 1891.....	93 00
507	" 28.	Sheldon Brick Co.....	Brick.....	109 00
508	" 28.	Robinson & Burr.....	Hardware.....	37 39
509	" 28.	Crane Co.....	Babbitt metal, etc.....	5 90
510	" 28.	J. D. Carmody.....	Asbestos washers.....	2 00
511	" 28.	Fuller & Fuller Co.....	Glass, oil, etc.....	24 77
512	" 28.	F. P. Smith.....	Wire panels.....	27 90
513	" 28.	Yale & Towne Mfg. Co.....	Latches.....	2 96
514	" 28.	Williams, Brown & Earle.....	Drawing board.....	45 00
515	" 28.	Ball Engine Co.....	Guides, frames, etc.....	157 25
516	" 28.	Magnolia Metal Co.....	Magnolia metal.....	6 25
517	" 28.	Bliss, Bullard & Gormley.....	Hardware.....	54 58
518	" 28.	T. H. Trevett.....		15 40
519	" 28.	Thos. Wright & Son.....	Castings.....	74 62
520	" 28.	R. S. Wilber.....	Drayage.....	131 50
521	" 28.	N. W. Calcium Light Co.....	Gas.....	6 00
522	" 28.	G. Besore.....	Lumber.....	165 78
523	" 28.	Pacific Express Co.....	Freight charges.....	4 45
524	" 28.	Western Electric Co.....	Magnetos.....	8 50
525	" 28.	Enterprise Coal & Coke Co.....	Coal.....	358 55
526	" 28.	D. H. Lloyd & Son.....	Stationery.....	6 50

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
527	1891.			
528	Feb. 28.	Fuller & Fuller Co.	Chemical supplies.	\$30 74
529	" 28.	F. P. Rush & Co.	Coal.	7 00
530	" 28.	O. Pazschke.	Fungi europaei.	5 37
531	" 28.	The Gazette.	Stationery and printing.	39 04
532	" 28.	A. H. Abbott & Co.	T squares.	2 40
533	" 28.	Lilly M. Hart.	Labeling specimens.	10 50
534	" 28.	H. Trevett.	Hardware.	170 64
535	" 28.	Enterprise Coal & Coke Co.	Coal.	234 65
536	" 28.	H. Swannell.	Chemical supplies.	48 63
537	" 28.	Champaign Gas Co.	Gas, February, 1891.	79 60
538	" 28.	Goodyear Rubber Co.	Rings.	1 59
539	" 28.	Walker & Mulliken.	Chairs.	3 40
540	" 28.	Y. W. C. T. U.	Gymnastic apparatus.	14 64
541	" 28.	F. P. Smith.	Hangers.	15 75
542	" 28.	American Express Co.	Charges.	3 20
543	" 28.	Agricultural department.	Expenses, February, 1891.	37 07
544	" 28.	S. W. Shattuck.	Petty expense, 3 months.	35 94
545	" 28.	Pay roll men and women.	Labor, February, 1891.	209 96
546	" 28.	Pay roll students.		120 97
547	" 28.	Illinois Central R. R.	Freight charges.	263 20
548	" 28.	Mechanical department.	Labor, material, and power.	173 96
549	" 28.	Mechanical department.	" "	270 55
550	" 28.	Architectural department.	" "	849 04
551	" 28.	Architectural department.	" "	193 64
552	Mar. 12.	Alex. McLean.	Expense to Board meeting.	59 00
553	" 12.	S. A. Bullard.	" "	13 00
554	" 12.	F. M. McKay.	" "	18 25
555	" 12.	LaFayette Funk.	" "	6 86
556	" 12.	N. W. Graham.	" "	17 87
557	" 12.	Henry Raab.	" "	10 00
558	" 12.	Emory Cobb.	" "	7 39
559	" 31.	Gere & P. Ilbrick.	Legal services.	53 50
560	" 31.	Fuller & Fuller Co.	Chemicals.	16 74
561	" 31.	Richard Kny & Co.	Beakers, etc.	61 90
562	" 31.	Cyclostyle Co.	Duplicating apparatus.	5 00
563	" 31.	F. W. Putnam.	Reports of Peabody Museum.	1 50
564	" 31.	Johns Hopkins Press Co.	Entomology of Insects.	3 00
565	" 31.	E. H. Sargent & Co.	Glass, etc.	6 13
566	" 31.	Boston Photo Co.	Cuts.	99 45
567	" 31.	Russell's Cigar Store.	Cigar boxes.	1 00
568	" 31.	Estes & Lauriat.	Michelet's Insects.	2 73
569	" 31.	Maltby & Wallace.	Fittings, labor, etc.	27 24
570	" 31.	Pantagraph Printing Co.	Ink, etc.	6 60
571	" 31.	G. C. Willis.	Cheese cloth, etc.	5 30
572	" 31.	Am. Phil. Association.	Transactions.	2 50
573	" 31.	Kenyon News Co.	Subscriptions.	3 10
574	" 31.	D. H. Lloyd & Son.	Books.	233 07
575	" 31.	Union Water Supply Co.	Water, 3 months.	100 00
576	" 31.	Yale & Towne Mfg. Co.	Locks.	6 07
577	" 31.	S. H. Peabody.	Salary, March, 1891.	333 33
578	" 31.	T. J. Burrill.	" "	166 66
579	" 31.	S. W. Shattuck.	" "	166 66
580	" 31.	E. Snyder.	" "	166 66
581	" 31.	N. C. Ricker.	" "	166 66
582	" 31.	J. D. Crawford.	" "	166 66
583	" 31.	G. E. Morrow.	" "	166 66
584	" 31.	I. O. Baker.	" "	166 66
585	" 31.	S. A. Forbes.	" "	83 33
586	" 31.	J. H. Brownlee.	" "	166 66
587	" 31.	C. W. Rolfe.	" "	166 66
588	" 31.	D. McIntosh.	" "	150 00
589	" 31.	N. Butler, Jr.	" "	166 00
590	" 31.	A. T. Woods.	" "	166 00
591	" 31.	A. N. Talbot.	" "	150 00
592	" 31.	A. W. Palmer.	" "	150 00
593	" 31.	F. F. Frederick.	" "	133 33
594	" 31.	C. DeGarmo.	" "	166 66
595	" 31.	S. W. Parr.	" "	150 00
596	" 31.	M. R. Paradis.	" "	150 00
597	" 31.	H. J. Barton.	" "	166 66
598	" 31.	S. W. Stratton.	" "	116 66
599	" 31.	G. W. Myers.	" "	83 33
600	" 31.	Fanny M. Ryan.	" "	80 00
601	" 31.	G. W. Parker.	" "	100 00
602	" 31.	E. Anderson.	" "	133 33
603	" 31.	H. S. Brode.	" "	90 00
604	" 31.	H. S. Grindley.	" "	90 00
	" 31.	R. W. Cornelison.	" "	60 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
1891.				
605	Mar. 31.	E. S. Keene	Salary, March, 1891.	\$75 00
606	" 31.	J. M. White	" "	75 00
607	" 31.	S. D. Bawden	" "	75 00
608	" 31.	Edith A. Shattuck	" "	40 00
609	" 31.	M. Schmidt	" "	110 00
610	" 31.	C. Bennett	" "	75 00
611	" 31.	Clara Maud Kimball	" "	25 00
612	" 31.	Grace Peabody	" "	25 00
613	" 31.	A. B. Baker	" "	70 00
614	" 31.	A. J. Stoneburner	" "	65 00
615	" 31.	W. A. Brown	" "	25 00
616	" 31.	H. Jeakins	" "	30 00
617	" 31.	L. H. Walden	" "	25 00
618	" 31.	John Martin	" "	53 60
619	" 31.	Mary J. Snyder	" "	50 00
620	" 31.	C. A. Hart	" "	50 00
621	" 31.	H. A. Dreer	Greenhouse stock	19 35
622	" 31.	E. G. Hill & Co.	" "	5 70
623	" 31.	C. F. Adams	Birds, skins, etc	76 15
624	" 31.	Heer & Seelig	Repairs on instruments	16 75
625	" 31.	C. W. Rolfe	Material for laboratories	71 57
626	Apr. 15.	N. W. Graham	Expense to Board meetings	31 50
627	" 15.	W. L. Pillsbury	" "	19 71
628	" 15.	S. H. Peabody	" traveling	76 39
629	" 15.	A. H. Taylor	North vs. Trustees	5 00
630	" 15.	Clara Maud Kimball	Music fees	205 00
631	" 15.	F. F. Frederick	Expenses	1 85
632	" 15.	C. F. Adams	Specimens	72 80
633	" 15.	Lilly M. Hart	Drawings, etc	20 50
634	" 15.	Southwick & Critchley	Cork, pins, etc	23 80
635	" 15.	National R'y Pub. Co.	Subscription	10 00
636	" 15.	C. F. Adams	Specimens	290 92
637	" 15.	Keuffel & Esser Co.	Plane table, etc	192 68
638	" 15.	Wheeler Engine Works	Marine air pump	225 00
639	" 15.	J. Bishop & Co	Platinum tube	15 56
640	" 15.	L. C. A. Manufacturing Co.	Iron drum	15 00
641	" 15.	J. W. Spalding	Postage	36 00
642	" 15.	A. Bevis	Paper and blue prints	8 05
643	" 15.	W. W. Abbot	Mats for photos	5 00
644	" 15.	G. C. Willis	Toweling, etc	8 61
645	" 15.	Western Stone Co.	Cap stone	16 80
646	" 15.	Inland Pub. Co	Subscription	6 75
647	" 15.	Agricultural department	Expenses, March, 1891	115 60
648	" 15.	Horticultural department	" "	8 79
649	" 15.	Pay roll of men	Labor	231 42
650	" 15.	Pay roll of students	" "	178 64
651	" 30.	S. H. Peabody	Salary, April, 1891	333 33
652	" 30.	T. J. Burrill	" "	166 66
653	" 30.	S. W. Shattuck	" "	166 66
654	" 30.	E. Snyder	" "	166 66
655	" 30.	N. C. Ricker	" "	166 66
656	" 30.	J. Crawford	" "	166 66
657	" 30.	G. E. Morrow	" "	166 66
658	" 30.	I. O. Baker	" "	166 66
659	" 30.	S. A. Forbes	" "	83 33
660	" 30.	J. H. Brownlee	" "	166 66
661	" 30.	C. W. Rolfe	" "	166 66
662	" 30.	D. McIntosh	" "	150 00
663	" 30.	N. Butler, Jr.	" "	166 66
664	" 30.	A. T. Woods	" "	166 66
665	" 30.	A. N. Talbot	" "	150 00
666	" 30.	A. W. Palmer	" "	150 00
667	" 30.	F. F. Frederick	" "	133 33
668	" 30.	C. DeGarmo	" "	166 66
669	" 30.	S. W. Parr	" "	150 00
670	" 30.	M. R. Paradis	" "	150 00
671	" 30.	H. J. Barton	" "	166 66
672	" 30.	S. W. Stratton	" "	116 66
673	" 30.	G. W. Myers	" "	83 33
674	" 30.	Fanny M. Ryan	" "	80 00
675	" 30.	G. W. Parker	" "	100 00
676	" 30.	R. Anderson	" "	133 33
677	" 30.	H. S. Brode	" "	90 00
678	" 30.	H. S. Grindley	" "	90 00
679	" 30.	R. W. Cornelison	" "	60 00
680	" 30.	E. S. Keene	" "	75 00
681	" 30.	J. M. White	" "	75 00
682	" 30.	S. D. Bawden	" "	75 00



*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
683	Apr. 30	Edith A. Shattuck	Salary, April, 1891	\$40 00
684	30	M. Schmidt	"	110 00
685	30	C. M. Moss	"	150 00
686	30	G. P. Clinton	"	66 66
687	30	C. Bennett	"	75 00
688	30	Clara Maud Kimball	"	25 00
689	30	Grace Peabody	"	25 00
690	30	A. B. Baker	"	70 00
691	30	A. J. Stoneburner	"	40 00
692	30	W. A. Brown	"	25 00
693	30	H. Jeakins	"	30 00
694	30	L. H. Walden	"	25 00
695	30	J. Marten	"	75 00
696	30	Mary J. Snyder	"	50 00
697	30	C. A. Hart	"	50 00
698	30	J. Gloy	Gymnasium apparatus	107 70
699	30	L. K. House & Co.	Blue grass, etc	2 30
700	30	Walker & Mulliken	Chairs, etc	14 75
701	May 15	Renner Bros. & Johnson	Grading campus	350 00
702	15	S. A. Forbes	Expenses	123 57
703	15	John Marten	Traveling expense	30 00
704	15	Chas. A. Hart	"	8 23
705	15	Spencer & Smith	Repairs on objective	15 00
706	15	Western Electric Co.	Ameter apparatus	70 00
707	15	C. W. Rolfe	Express charges	2 00
708	15	Heinly & Purcell	Entertaining Senate committee	6 50
709	15	A. C. McClurg & Co.	Books, etc	12 84
710	15	D. H. Lloyd & Son	"	138 25
711	15	Studies in History, etc	Subscription	5 50
712	15	Ginn & Co.	Trans. Am. Phil. Association	2 00
713	15	D. C. Heath & Co.	Book	6 80
714	15	McDonnell Bros.	Books	5 00
715	15	Carl Shoenhof	"	11 31
716	15	Kenyon News Co.	Subscriptions	9 00
717	15	Cent. Union Telephone Co.	Rent of instrument, 3 months	15 00
718	15	W. H. Dilley	Cornice brushes	3 75
719	15	Bliss, Bullard & Gormley	Hardware	7 70
720	15	Yale & Towne Mfg. Co.	Lock	1 80
721	15	Macomb Stone Co.	Clay	3 85
722	15	Northern Distillery	Alcohol	47 00
723	15	Agricultural department	Expenses, April, 1891	139 30
724	15	Pay roll of students	Labor, April, 1891	164 58
725	15	Pay roll of men	"	292 40
726	30	S. H. Peabody	Salary, May, 1891	333 33
727	30	T. J. Burrill	"	166 66
728	30	S. W. Shattuck	"	166 66
729	30	E. Snyder	"	166 66
730	30	N. C. Ricker	"	166 66
731	30	J. D. Crawford	"	166 66
732	30	G. E. Morrow	"	166 66
733	30	I. O. Baker	"	166 66
734	30	S. A. Forbes	"	83 33
735	30	J. H. Brownlee	"	166 66
736	30	C. W. Rolfe	"	166 66
737	30	D. McIntosh	"	150 00
738	30	N. Butler, Jr	"	166 66
739	30	A. T. Woods	"	166 66
740	30	A. N. Talbot	"	150 00
741	30	A. W. Palmer	"	150 00
742	30	F. F. Frederick	"	133 33
743	30	C. DeGarmo	"	166 66
744	30	S. W. Parr	"	150 00
745	30	M. R. Paradis	"	150 00
746	30	H. J. Barton	"	166 66
747	30	C. M. Moss	"	150 00
748	30	S. W. Stratton	"	116 66
749	30	G. W. Myers	"	83 33
750	30	Fanny M. Ryan	"	80 00
751	30	G. W. Parker	"	100 00
752	30	R. Anderson	"	133 33
753	30	H. S. Brode	"	90 00
754	30	H. S. Grindley	"	90 00
755	30	R. W. Cornelison	"	60 00
756	30	E. S. Keene	"	75 00
757	30	J. M. White	"	75 00
758	30	S. D. Bawden	"	75 00
759	30	Edith A. Shattuck	"	40 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
760	May 30...	M. Schmidt.....	Salary, May, 1891.....	\$110 00
761	" 30...	G. P. Clinton.....	" " " " " "	66 66
762	" 30...	C. Bennett.....	" " " " " "	75 00
763	" 30...	Clara Maud Kimball.....	" " " " " "	25 00
764	" 30...	Grace Peabody.....	" " " " " "	25 00
765	" 30...	A. B. Baker.....	" " " " " "	70 00
766	" 30...	A. J. Stoneburner.....	" " " " " "	40 00
767	" 30...	W. A. Brown.....	" " " " " "	25 00
768	" 30...	H. Jeakins.....	" " " " " "	30 00
769	" 30...	L. H. Walden.....	" " " " " "	25 00
770	" 30...	J. Marten.....	" " " " " "	75 00
771	" 30...	Mary J. Snyder.....	" " " " " "	50 00
772	" 30...	C. A. Hart.....	" " " " " "	50 00
773	" 30...	Star Distilling Co.....	Alcohol.....	41 00
774	" 30...	W. L. Pillsbury.....	Salary 3 months to date.....	125 00
775	" 30...	S. W. Shattuck.....	" " " " " "	150 00
776	" 30...	Jones & Laughlins.....	Iron.....	38 54
777	" 30...	Crane Co.....	Iron fittings, etc.....	70 01
778	" 30...	Riehle Bros.....	Cement tester.....	178 25
779	" 30...	Western Stone Co.....	Cut stone.....	49 10
780	" 30...	H. Hensoldt.....	Type sections.....	20 00
781	" 30...	W. & L. E. Gurley.....	Engineering instruments.....	192 00
782	" 30...	J. Carbutt.....	Lantern plates, etc.....	5 76
783	" 30...	Douglass & Shuey Co.....	Photograph supplies.....	2 53
784	" 30...	J. W. Butler Paper Co.....	Mounting board.....	21 25
785	" 30...	Oscar Miller.....	Hardware.....	6 62
786	" 30...	Abendroth & Root.....	Gaskets.....	123 30
787	" 30...	Jas. B. Clow & Son.....	Iron fittings, etc.....	25 80
788	" 30...	R. S. Wilber.....	Drayage.....	85 85
789	" 30...	D. H. Lloyd & Son.....	Stationery.....	12 20
790	" 30...	Trenton, N. H. Soc.....	Journal, Vol. 1.....	1 85
791	" 30...	W. Union Tel. Co.....	Telegraph charges.....	4 82
792	" 30...	Ento. Soc. of Washington.....	No. 1, Vol. 2, Proceedings.....	1 25
793	" 30...	Carrie Johnson.....	Tabulation.....	40 00
794	" 30...	H. Chester.....	Carriage hire.....	8 75
795	" 30...	Cham. & Urbana Gas Co.....	Gas two months.....	192 80
796	" 30...	E. O. Vaile.....	Advertising.....	10 00
797	" 30...	Public School Pub. Co.....	Advertising.....	6 00
798	" 30...	Illini.....	Advertising, etc.....	40 78
799	" 30...	W. Bank Note & Eng. Co.....	Diplomas.....	50 00
800	" 30...	J. W. Spalding.....	Postage.....	26 10
801	" 30...	D. Appleton & Co.....	American Encyclopedia 1890.....	6 00
802	" 30...	E. H. Sargent & Co.....	Chemical supplies.....	9 80
803	" 30...	E. Hennecke & Co.....	Flower pots, etc.....	21 50
804	" 30...	W. Electric Co.....	Cells, switches, etc.....	10 04
805	" 30...	Fuller & Fuller Co.....	Ether, glass, etc.....	44 21
806	" 30...	W. L. Elder.....	Desks.....	60 00
807	" 30...	S. P. Atkinson & Co.....	Marble, etc.....	15 00
808	" 30...	Goodyear Rubber Co.....	Rubber tubing.....	5 67
809	" 30...	Richards & Co.....	Filter paper, etc.....	7 70
810	" 30...	Eimer & Amend.....	" " " " " "	19 17
811	" 30...	Palmer Slide Co.....	Slides, etc.....	22 70
812	" 30...	W. W. Lindley.....	Postage stamps.....	55 00
813	" 30...	The Gazette.....	Stationery, etc.....	106 31
814	" 30...	Union Water Supply Co.....	Water 3 months.....	100 00
815	" 30...	Fairbanks, Morse & Co.....	scales and weights.....	91 50
816	" 30...	S. W. Shattuck.....	Petty expense 3 months.....	31 20
817	" 30...	Pay rolls of men.....	Labor, May, 1891.....	373 66
818	" 30...	Pay rolls of students.....	" " " " " "	211 68
819	" 30...	Agricultural department.....	Expenses, May, 1891.....	198 66
820	" 30...	American Express Co.....	Freight charges.....	24 85
821	" 30...	C. C. C. & St. L. Ry. Co.....	" " " " " "	17 61
822	" 30...	Illinois Central R. R. Co.....	" " " " " "	49 42
823	" 30...	Lilly M. Hart.....	Drawings, etc.....	36 20
824	" 30...	Mechanical dept. U. of I.....	Labor, material and power.....	210 25
825	" 30...	Architectural dept. U. of I.....	" " " " " "	370 73
826	June 15...	S. A. Bullard.....	Board expenses.....	36 00
827	" 15...	Alex. McLean.....	" " " " " "	43 08
828	" 15...	Henry Raab.....	" " " " " "	15 00
829	" 15...	F. M. McKay.....	" " " " " "	37 75
830	" 15...	G. R. Shawhan.....	" " " " " "	13 00
831	" 15...	LaFayette Funk.....	" " " " " "	7 70
832	" 15...	R. P. Morgan.....	" " " " " "	57 22
833	" 15...	N. W. Graham.....	" " " " " "	37 86
834	" 15...	John H. Bryant.....	" " " " " "	55 00
835	" 15...	W. W. Clemens.....	" " " " " "	16 34
836	" 15...	J. W. Bunn.....	Taxes on Minn. land.....	1,511 24

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
837	June 15	J. W. Bunn	Premium on bonds	\$300 06
838	" 15	S. H. Peabody	Traveling expenses	20 94
839	" 15	Charles W. Clark	Music at commencement	60 00
840	" 15	O. F. Spaulding	Hotel bill	15 50
841	" 15	Assoc. of Am. Agri. Colleges	Membership fee	25 00
842	" 15	Railroad Gazette	Back numbers	1 50
843	" 15	Johns Hopkins Press	Book	5 00
844	" 15	Journal of Eng. Societies	Subscription	3 00
845	" 15	Kenyon News Co.		5 90
846	" 15	Link Belt Machine Co.	Pulley	18 03
847	" 15	Jones & Laughlins	Flange coupling	5 88
848	" 15	H. S. Brode	Assistance in laboratory	100 00
849	" 15	Boston Photograph Co.	Cuts	79 00
850	" 15	W. H. Beckwith	Fruit jars, etc.	11 63
851	" 15	C. W. Rolfe	Traveling expenses	14 13
852	" 15	Eng. News Publishing Co.	Index	1 00
853	" 15	Stearns Lime & Stone Co.	Plaster	2 00
854	" 15	Sutton Brick & Tile Co.	Brick	58 35
855	" 15	Champaign County Herald	Printing programmes	24 00
856	" 15	The Patriot	Advertising	4 00
857	" 15	Cameron Steam Pump Wks.	Pump	80 00
858	" 15	U. S. Wind Engine Pump Co.	Tank	21 70
859	" 15	George S. Barnes	Universal calorimeter	60 00
860	" 15	W. W. Davis	Sand	3 12
861	" 15	Bacon & Mittendorf	Moulding, etc.	5 04
862	" 15	Lyon & Healy	Music	2 35
863	" 15	A. Bevis	Blue print paper	1 95
864	" 15	United States	Fittings for rifles	27 75
865	" 15	Pacific Express	Freight charges	2 27
866	" 15	F. F. Frederick	Expenses	1 45
867	" 15	D. H. Lloyd & Son	Stationery	3 25
868	" 15	N. W. Calcium Light Co.	Gas	6 90
869	" 15	A. W. Palmer	Expenses	2 00
870	" 15	Ill. Anthracite Coal Co.	Coal	3 50
871	" 15	Walker & Mulliken	Paper baskets	1 20
872	" 15	G. C. Willis	Ribbon	3 57
873	" 15	Olof Olson	Commissions on land sale	4 00
874	" 15	Friedl Miller	Tuning pianos	15 50
875	" 15	Crane Co.	Pipe and fittings	30 53
876	" 30	S. H. Peabody	Salary, June, 1891	333 33
877	" 30	T. J. Burrill	"	166 66
878	" 30	S. W. Shattuck	"	166 66
879	" 30	E. Snyder	"	166 66
880	" 30	N. C. Ricker	"	166 66
881	" 30	J. D. Crawford	"	166 66
882	" 30	G. E. Morrow	"	166 66
883	" 30	I. O. Baker	"	166 66
884	" 30	S. A. Forbes	"	83 33
885	" 30	J. H. Brownlee	"	166 66
886	" 30	C. W. Rolfe	"	166 66
887	" 30	D. McIntosh	"	150 00
888	" 30	N. Butler, Jr.	"	166 66
889	" 30	A. T. Woods	"	166 66
890	" 30	A. N. Talbot	"	150 00
891	" 30	A. W. Palmer	"	150 00
892	" 30	F. F. Frederick	"	133 33
893	" 30	Charles DeGarmo	"	166 66
894	" 30	S. W. Parr	"	150 00
895	" 30	M. R. Paradis	"	150 00
896	" 30	H. J. Barton	"	166 66
897	" 30	Charles M. Moss	"	150 00
898	" 30	S. W. Stratton	"	116 66
899	" 30	G. W. Myers	"	83 33
900	" 30	Fanny M. Ryan	"	80 00
901	" 30	G. W. Parker	"	100 00
902	" 30	H. Anderson	"	133 33
903	" 30	H. S. Brode	"	90 00
904	" 30	H. S. Grindley	"	90 00
905	" 30	E. W. Cornellison	"	60 00
906	" 30	E. S. Keene	"	75 00
907	" 30	E. M. White	"	75 00
908	" 30	S. D. Bawden	"	75 00
909	" 30	Edith A. Shattuck	"	40 00
910	" 30	M. Schmidt	"	110 00
911	" 30	G. P. Clinton	"	66 66
912	" 30	C. Bennett	"	75 00
913	" 30	Clara Maud Kimball	"	25 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
1891.				
914	June 30.	Grace Peabody	Salary, June, 1891.	\$25 00
915	30.	A. B. Baker	" "	70 00
916	30.	A. J. Stoneburner	" "	20 00
917	30.	W. A. Brown	" "	12 50
918	30.	H. Jeakins	" "	15 00
919	30.	L. H. Walden	" "	12 50
920	30.	John Marten	" "	75 00
921	30.	Mary J. Snyder	" "	50 00
922	30.	C. A. Hart	" "	50 00
923	30.	S. W. Shattuck	" "	50 00
924	30.	T. J. Burrill	" "	100 00
925	30.	J. W. Spalding	Postage	49 80
926	30.	E. Henry	Oil, paints, etc.	108 77
927	30.	A. A. & L. A. Terwilliger	Hardware	9 00
928	30.	Pay roll of women	Labor	115 50
929	30.	H. Trevett	Hardware	133 88
930	30.	Robinson & Burr	Fittings, etc.	83 40
931	30.	Crosby Steam Gauge Co.	Gauges, etc.	31 75
932	30.	George Besore	Lumber	167 53
933	30.	W. L. Pillsbury	Expenses	11 66
934	30.	Western Union Tel. Co.	Telegraph charges	6 82
935	30.	C. C. C. & St. L. R'y Co.	Freight charges	7 29
936	30.	G. E. Stechert	Books	50 68
937	30.	A. C. McClurg & Co.	Military essays, etc.	2 50
938	30.	Mechanical dept. U. of I.	Labor and materials	50 00
939	30.	Architectural dept. U. of I.	"	53 26
940	30.	Cambridge Ento. Club	Books	18 00
941	30.	American Ento. Society	Cresson's Synopsis	1 50
942	30.	G. C. Willis	Swiss, etc.	1 80
943	30.	B. J. Kaile	Cigar boxes	1 00
944	30.	B. Quaritch	Books	69 02
945	30.	S. A. Forbes	Expenses	50 00
946	30.	L. Provancher	Books	2 00
947	30.	C. V. Riley	Electrotype	2 00
948	30.	S. R. Roberts	Manual of Conchology	18 00
949	30.	Eimer & Amend	Abbe camera, etc.	21 57
950	30.	The Gazette	Printing, binding, etc.	227 38
951	30.	E. H. Sargent & Co.	Corks and bottles	13 46
952	30.	H. Swannell	Chemicals	1 35
953	30.	G. W. Crane & Co.	History Birds of Kansas	7 50
954	30.	Bausch & Lomb Opt Co.	Glass sheets, etc.	8 63
955	30.	F. B. Webster Co.	Ornithology and Oölogy	1 00
956	30.	Pantagraph Co.	Stationery	1 39
957	30.	J. W. Franks & Sons	Printing	144 43
958	30.	T. J. Burrill	Salary, 6 mo.	100 00
959	30.	I. C. R. R. Co.	Freight charges	54 58
960	July 15.	Entomological News	Vol. 1-2	2 00
961	15.	S. A. Forbes	Expenses	58 14
962	15.	Lilly M. Hart	Work on plaster casts	35 00
963	15.	I. O. Baker	Express, etc.	2 00
964	15.	J. B. Clow & Son	Lead pipe	1 84
965	15.	Horticultural department	Expenses June, 1891.	13 65
966	15.	Agricultural department	"	165 73
967	15.	F. M. McKay	Expenses	10 50
968	15.	J. W. Spalding	Postage	20 00
969	15.	Clara Maud Kimball	Music fees	211 00
970	15.	H. Mineka	Labor and material	2 15
971	15.	Webb's Adder Co.	Adder	7 00
972	15.	S. W. Stratton	Expenses	10 35
973	15.	Theo. Anne	Commissions on land sale	3 15
974	15.	Pay rolls of men	Labor June 1891	524 40
975	15.	Pay rolls of students	"	118 61
976	31.	S. H. Peabody	Salary, July, 1891	333 33
977	31.	T. J. Burrill	" "	166 66
978	31.	S. W. Shattuck	" "	166 66
979	31.	E. Snyder	" "	166 66
980	31.	N. C. Bicker	" "	166 66
981	31.	J. D. Crawford	" "	166 66
982	31.	G. E. Morrow	" "	166 66
983	31.	I. O. Baker	" "	166 66
984	31.	S. A. Forbes	" "	83 33
985	31.	J. H. Brownlee	" "	166 66
986	31.	C. W. Rolfe	" "	166 66
987	31.	D. McIntosh	" "	150 00
988	31.	N. Butler, Jr.	" "	166 66
989	31.	A. T. Woods	" "	166 66
990	31.	A. N. Talbot	" "	150 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
991	July 31	A. W. Palmer.....	Salary, July, 1891.....	\$150 00
992	" 31	F. F. Frederick.....	" " " " " "	133 33
993	" 31	Chas. De Garmo.....	" " " " " "	166 66
994	" 31	S. W. Parr.....	" " " " " "	150 00
995	" 31	M. R. Paradis.....	" " " " " "	150 00
996	" 31	H. J. Barton.....	" " " " " "	166 66
997	" 31	Chas. M. Moss.....	" " " " " "	150 00
998	" 31	S. W. Stratton.....	" " " " " "	116 66
999	" 31	G. W. Myers.....	" " " " " "	83 33
1000	" 31	G. W. Parker.....	" " " " " "	100 00
1001	" 31	R. Anderson.....	" " " " " "	133 33
1002	" 31	A. B. Baker.....	" " " " " "	70 00
1003	" 31	Grace Peabody.....	" " " " " "	25 00
1004	" 31	Anna F. Shattuck.....	" " " " " "	12 50
1005	" 31	H. S. Brode.....	" " " " " "	100 00
1006	" 31	John Marten.....	" " " " " "	83 33
1007	" 31	Mary J. Snyder.....	" " " " " "	62 50
1008	" 31	C. A. Hart.....	" " " " " "	62 50
1009	" 31	R. Friedlander & Sohn.....	Books.....	255 55
1010	" 31	The Gazette.....	Mounting charts.....	20 00
1011	" 31	Bausch & Lomb Opt Co.....	Glasses.....	13 88
1012	" 31	C. West.....	Round perch.....	1 95
1013	" 31	L. W. Faulkner & Co.....	Oil.....	47 27
1014	" 31	Chicago Lead & Oil Co.....	Lead.....	148 38
1015	" 31	Champaign Gas Co.....	Gas, May and June, 1891.....	106 00
1016	" 31	The Technograph.....	Advertisement.....	8 00
1017	" 31	Public School Pub. Co.....	" " " " " "	6 00
1018	" 31	A. C. McClurg & Co.....	Stationery.....	36 90
1019	" 31	Hornstein Bros.....	Catalogue.....	342 10
1020	" 31	Lyon & Healy.....	Repairs.....	6 50
1021	" 31	E. W. Blatchford & Co.....	Pig lead.....	77 66
1022	" 31	Wabash R. R. Co.....	Freight charges.....	50 09
1023	" 31	Evans Friction Cone Co.....	Set cones.....	160 00
1024	" 31	Henry Warden.....	Gas engine.....	885 00
1025	" 31	Jas. B. Clow & Son.....	Water pipe.....	748 19
1026	" 31	A. M. Scott.....	Hammond type writer.....	85 00
1027	" 31	V. W. Shuck.....	Screen doors, etc.....	12 00
1028	" 31	Crane Co.....	Fittings.....	10 14
1029	" 31	Fuller & Fuller Co.....	Lead, etc.....	13 88
1030	" 31	R. Beaumont.....	Hydrant.....	25 25
1031	" 31	Western Electric Co.....	Fittings.....	67 68
1032	Aug. 15	F. M. McKay.....	Traveling expenses.....	173 20
1033	" 15	Emory Cobb.....	" " " " " "	4 00
1034	" 15	Grace Peabody.....	Copying records.....	10 10
1035	" 15	E. S. Keene.....	Salary, July, 1891.....	75 00
1036	" 15	J. D. Carmody.....	Asbestos.....	2 50
1037	" 15	Cent. Union Tel. Co.....	Rent, 3 mo.....	15 00
1038	" 15	J. W. Spalding.....	Postage stamps.....	15 00
1039	" 15	S. A. Forbes.....	Expenses.....	112 35
1040	" 15	John Marten.....	Traveling expenses.....	26 24
1041	" 15	C. A. Hart.....	" " " " " "	75 00
1042	" 15	Wabash R. R. Co.....	Freight charges.....	15 68
1043	" 15	Ill. Cent. R. R. Co.....	" " " " " "	6 50
1044	" 15	C. C. C. & St. L. R'y. Co.....	" " " " " "	1 29
1045	" 15	Pacific Express Co.....	" " " " " "	4 80
1046	" 15	Am. Express Co.....	" " " " " "	26 31
1047	" 15	Agricultural department.....	Expenses, July, 1891.....	216 84
1048	" 15	Harry Clark.....	Painting greenhouse.....	46 25
1049	" 15	Pay roll of men.....	Labor, July, 1891.....	609 10
1050	" 15	Pay roll of students.....	" " " " " "	189 48
1051	" 31	S. H. Peabody.....	Salary, August, 1891.....	333 33
1052	" 31	T. J. Burrill.....	" " " " " "	166 66
1053	" 31	S. W. Shattuck.....	" " " " " "	166 66
1054	" 31	E. Snyder.....	" " " " " "	166 66
1055	" 31	N. C. Ricker.....	" " " " " "	166 66
1056	" 31	J. D. Crawford.....	" " " " " "	166 66
1057	" 31	G. E. Morrow.....	" " " " " "	166 66
1058	" 31	I. O. Baker.....	" " " " " "	166 66
1059	" 31	S. A. Forbes.....	" " " " " "	83 33
1060	" 31	J. H. Brownlee.....	" " " " " "	166 66
1061	" 31	C. W. Rolfe.....	" " " " " "	166 66
1062	" 31	D. McIntosh.....	" " " " " "	150 00
1063	" 31	N. Butler, Jr.....	" " " " " "	166 66
1064	" 31	A. T. Woods.....	" " " " " "	166 66
1065	" 31	A. N. Talbot.....	" " " " " "	150 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
1066	Aug. 31.	A. W. Palmer	Salary, August, 1891	\$150 00
1067	" 31.	F. F. Frederick	" "	133 33
1068	" 31.	Chas. DeGarmo	" "	166 66
1069	" 31.	S. W. Parr	" "	150 00
1070	" 31.	M. R. Paradis	" "	150 00
1071	" 31.	H. J. Barton	" "	166 66
1072	" 31.	Chas. M. Moss	" "	150 00
1073	" 31.	S. W. Stratton	" "	116 66
1074	" 31.	G. W. Myers	" "	83 33
1075	" 31.	G. W. Parker	" "	100 00
1076	" 31.	R. Anderson	" "	133 33
1077	" 31.	A. B. Baker	" "	70 00
1078	" 31.	Grace Peabody	" "	25 00
1079	" 31.	W. L. Pillsbury	" "	125 00
1080	" 31.	S. W. Shattuck	" "	150 00
1081	" 31.	H. S. Brode	" "	100 00
1082	" 31.	John Marten	" "	83 33
1083	" 31.	M. J. Snyder	" "	62 50
1084	" 31.	C. A. Hart	" "	62 50
1085	" 31.	H. W. Rokker	Printing	48 50
1086	" 31.	Ferris Bros	American Naturalist	4 00
1087	" 31.	Educational Supply Co.	Watch glasses	3 00
1088	" 31.	Southwick & Critchley	Insect pins	9 37
1089	" 31.	J. W. Franks & Sons	Printing	49 52
1090	" 31.	C. W. Stromberg	Vial racks	16 50
1091	" 31.	W. H. Dietz	Gum dater	1 28
1092	" 31.	Boston Photo. Co.	Cuts	29 00
1093	" 31.	Ginn & Co.	Journal of Morphology	9 00
1094	" 31.	Sadler Pub. Co.	U. S. Postal Guide	1 00
1095	" 31.	H. F. Andrews	Bird skins	60 00
1096	" 31.	J. W. Butler Paper Co.	Paper	8 38
1097	" 31.	Wm. L. Elder	Desks	34 00
1098	" 31.	Bacon & Mittendorf	Tables	2 50
1099	" 31.	Hornstein Bros.	Wrappers	10 00
1100	" 31.	F. P. Elliott & Co.	Paper	2 10
1101	" 31.	Ill. Cent. R. R. Co.	Freight charges	182 90
1102	" 31.	Cranston & Stowe	Advertising	38 64
1103	" 31.	Ticknor & Co.	" "	5 60
1104	" 31.	A. N. Kellogg Co.	" "	157 50
1105	" 31.	The Railway Review	" "	7 87
1106	" 31.	The Railway Age	" "	6 50
1107	" 31.	Railroad Gazette	" "	6 75
1108	" 31.	The Inter-Ocean	" "	30 00
1109	" 31.	W. A. Jacobs, Secy.	" "	5 00
1110	" 31.	H. H. Chandler & Co.	" "	9 00
1111	" 31.	The Interior	" "	9 00
1112	" 31.	D. Wilcox & Sons	" "	7 50
1113	" 31.	W. W. Lindley	Postage	5 00
1114	" 31.	G. E. Marshall & Co.	Record	5 00
1115	" 31.	Pantagraph Print. Co.	Printing	111 12
1116	" 31.	Thomson-Houston Co.	Dynamo, etc.	750 00
1117	" 31.	Harry Warden	Gas bag	3 50
1118	" 31.	E. S. Greeley & Co.	Wheatstone bridge	232 12
1119	" 31.	Jas. W. Queen & Co.	Galvanometer, etc.	72 35
1120	" 31.	Cosmos Mindeleff	Relief models	313 00
1121	" 31.	C. C. Jones	Lantern slides	9 90
1122	" 31.	Geo. B. Sore	Lumber	1,432 66
1123	" 31.	L. W. Faulkner & Co.	Oil, etc.	22 44
1124	" 31.	Hubbard & Sons	Labor and material	186 04
1125	" 31.	Wm. Price	Painting	627 56
1126	" 31.	Fuller & Fuller Co.	Glass and glue	18 93
1127	" 31.	A. B. Seymour	Paper	18 00
1128	" 31.	E. Dietzgen & Co.	Calculating instrument	30 00
1129	" 31.	J. Bishop & Co.	Repairs on platinum	11 34
1130	" 31.	J. W. Elsea	Hack hire	2 00
1131	" 31.	The Gazette	Printing	93 95
1132	" 31.	James Beggs & Co.	Engine lathe	190 60
1133	" 31.	Agricultural department	Expenses, August, 1891	110 02
1134	" 31.	Horticultural department	" "	5 05
1135	" 31.	Springside Coal Co.	Coal	166 60
1136	" 31.	Prairie Farmer Co.	Advertising	9 00
1137	" 31.	The Pantagraph	" "	8 75
1138	" 31.	The Living Church	" "	10 00
1139	" 31.	Lord & Thomas	" "	35 00

*List of Warrants—Concluded.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
1140	Aug. 31....	F. M. McKay .....	Expenses.....	\$15 75
1141	" 31....	Farmers' Call .....	Advertising .....	9 00
1142	" 31....	Thos. Wright & Son.....	Incandescent lamps .....	7 80
1143	" 31....	Gamble & Stafford .....	Cabinet photos.....	6 00
1144	" 31....	R. S. Wilber.....	Drayage .....	105 05
1145	" 31....	S. W. Shattuck, Business Ag't	Petty expense, 3 mo.....	38 73
1146	" 31....	Mechanical department....	Labor and material.....	342 52
1147	" 31....	Architectural department....	" .....	498 37
1148	" 31....	Architectural department....	" .....	685 88
1149	" 31....	Pay roll, men and women....	Labor, August, 1891 .....	431 57
1150	" 31....	Pay roll, students .....	" .....	105 11

*Financial statement of the University of Illinois [not including State Laboratory of Natural History or the Agricultural Experiment Station] for the year ending August 31, 1891.*

RECEIPTS, SEPTEMBER 1, 1890—AUGUST 31, 1891.		
Balance .....		\$35,021 04
<i>From U. S. Appropriations—</i>		
For instruction and the facilities therefor .....		31,000 00
<i>From State Appropriations—</i>		
For taxes on lands in Minnesota and Nebraska .....	\$1,511 24	
For buildings and grounds .....	2,500 00	
For mechanical shops .....	2,000 00	
For books and publications .....	1,000 00	
For current expenses of instruction .....	20,000 00	
For laboratories .....	1,500 00	
For specimens for cabinets .....	500 00	
For boiler and heating Military Hall .....	3,500 00	
For farm barn and sheds .....	2,500 00	
For furniture .....	1,000 00	
For Natural History Hall .....	30,000 00	
For heating and furnishing same .....	5,000 00	
		71,011 24
<i>From other sources—</i>		
Interest .....	\$24,790 98	
Rents .....	1,712 28	
Fees of University students .....	11,732 50	
Fees of preparatory students .....	1,930 00	
Gross receipts of business departments .....	11,548 70	
Miscellaneous .....	441 83	
		52,157 29
		<u>\$189,189 57</u>
EXPENDITURES, SEPTEMBER 1, 1890—AUGUST 31, 1891.		
<i>Of U. S. Appropriations—</i>		
Salaries for instruction .....	\$7,500 00	
Electrical laboratory .....	2,393 78	
Mechanical laboratory .....	593 98	
Chemical laboratory .....	651 60	
Civil engineering .....	408 38	
Botany and physiology .....	81 86	
Natural history .....	536 05	
Physical laboratory .....	364 63	
Architectural department .....	23 25	
		\$12,553 53
<i>Of State Appropriations—</i>		
Taxes on lands in Minnesota and Nebraska .....	\$1,511 24	
Buildings and grounds .....	3,105 23	
Mechanical shops .....	1,300 00	
Books and publications .....	1,000 00	
Cabinets .....	701 27	
Current expenses of instruction .....	20,000 00	
Apparatus and material .....	1,336 82	
Metallurgical laboratory .....	323 45	
Boiler .....	1,209 68	
Farm barn .....	1,618 77	
Furniture .....	47 60	
		32,154 06
<i>Of other funds—</i>		
Expenses of Board of Trustees .....	\$971 70	
Salaries for instruction .....	23,484 51	
Salaries for services .....	5,031 91	
Buildings and grounds .....	554 78	
Fuel and lights .....	3,104 08	
Stationery, printing, and postage .....	2,180 54	
Preparatory department .....	1,823 26	
Gross expenses of business departments .....	9,400 95	
Water supply .....	1,457 13	
Premium on bonds .....	689 37	
Miscellaneous .....	1,371 13	
Incidentals .....	777 79	
Furniture and fixtures .....	577 04	
Moving shop .....	675 32	
Coal sheds .....	964 93	
		53,063 54
Balance .....		91,418 44
		<u>\$189,189 57</u>



*Financial statement of the Illinois State Laboratory of Natural History, for the fiscal year ending June 30, 1891.*

RECEIPTS.		
For field, office, and incidental expenses.....	\$1,000 00	
Improvement of library.....	500 00	
Pay of assistants.....	3,000 00	
Publication of bulletins.....	500 00	
Illustration of the State Entomologist's Report.....	500 00	
EXPENDITURES.		
For field, office, and incidental expenses.....		\$1,000 00
Improvement of library.....		500 00
Pay of assistants.....		3,000 00
Publication of bulletins.....		500 00
Illustration of the State Entomologist's Report.....		500 00
	\$5,500 00	\$5,500 00

*Financial statement of the Agricultural Experiment Station, University of Illinois, for the year ending June 30, 1891.*

RECEIPTS.		
Appropriated by Congress .....	\$15,000 00	
From State Board of Agriculture for analyses of fertilizers.....	90 00	
EXPENDITURES.		
Buildings and repairs .....		\$310 73
Board expense.....		75 41
Books and publications.....		711 63
Botanical apparatus .....		165 13
Bulletins.....		1,625 52
Chemical apparatus.....		728 41
Fertilizers.....		27 08
Fuel and lights.....		306 46
Incidentals .....		98 67
Printing, stationery, and postage .....		110 36
Salaries.....		6,488 52
Seeds and trees .....		54 62
Tools and supplies.....		259 03
Wages and teams .....		3,589 68
Dairy house fittings.....		226 14
Special expenditures on corn and wheat experiments in southern Illinois .....		170 63
Special expenditures on dairying experiments .....		141 98
Total .....	\$15,090 00	\$15,090 00



PROCEEDINGS  
OF THE  
BOARD OF TRUSTEES  
OF THE  
UNIVERSITY OF ILLINOIS,  
FOR THE YEAR ENDING AUGUST 31, 1892.

---

MEETING OF SEPTEMBER 8, 1891.

---

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, at 4 o'clock p. m., Tuesday, September 8, 1891. Present, Messrs. Bullard, Clemens, Cobb, Graham, Raab, and Shawhan; absent, Governor Fifer and Messrs. Bryant, Funk, McKay, McLean, and Morgan.

Professor Burrill, Acting Regent, presented his report:

REGENT'S REPORT.

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

GENTLEMEN: However much I regret the emergency which has caused your action in making me Acting Regent of the University, I conceive it to be my duty formally to accept your call and to contribute in every possible way within my power to the well-being and well-doing of the great institution intrusted to your care. I fully appreciate both the honor and the difficulties of the position. For the first please accept my sincere thanks; for the second please give me your sincere support.

During the quarter now at its close the buildings have had their annual internal cleaning, and the wood work of University Hall has been painted in accordance with your instructions. A good deal of repairing has also been done outside and inside, and things are now in good shape for the opening of the term next week.

The barn on the experiment farm is not yet finished, but is so far along that it is estimated that it can be completed somewhat within the appropriation. It is desired that the balance may be made available for the construction of connected out-buildings and fittings. At your June meeting an appropriation of \$1,000.00 was made for machinery in the architectural shops, and at the August meeting another \$1,000.00 was assigned to the same department for a dry-room and lumber sheds. The former was to be expended under the direction of the Committee on Buildings and Grounds and the Regent: who was to expend the latter was not designated. As may be seen by the communication of Professor Ricker little has been done. I respectfully suggest that the further expenditure of these amounts be referred to the Professor of Architecture and the Business Agent. The desks ordered for the architectural rooms have been received and the computing instrument is soon expected.

The room for the work in electrical engineering has been re-floored and the apparatus ordered is on hand and in part ready for use. Much delay, however, occurred in getting the pieces set up on account of the disorganization of the mechanical department. But for the energy of Professor Stratton the work would have been much longer delayed. The demand for instruction in this branch at present is so urgent that the fullest possible provision should be made at once to meet it satisfactorily. A steam engine seems to be much needed for work beyond the power of the gas engine just put up. About \$1,000.00 is needed for this purpose, and as there is great pressure now upon the manufactories it will be necessary to order the engine sometime before it can be expected. Either an appropriation may be made, if you deem any action best, or authority may be given now to make inquiries and to place an order.

Professor Baldwin, elected at your last meeting to the chair of mining engineering, has arrived and reports ready for duty. It however seems unlikely that he will have many, if any, students in his special subjects. The department will require building up in this respect as well as in its material equipment. For the present, and perhaps permanently, it is proposed to assign to him the instruction in mineralogy, heretofore taught by the professor of chemistry. With this in view Professor Baldwin, aided by other professors, has examined the specimens for instruction on hand and has asked for leave to purchase such others as seem demanded now for the purpose. An appropriation of \$500.00 is asked on this account.

In this connection it may be stated that the tools used in the fall term by students in the laboratory work in mineralogy, have heretofore been used in a different term by the students in geology under Professor Rolfe. Now these two subjects are to be taught in the same term, and it therefore becomes essential to purchase more of these small implements. Sixty dollars is asked for this use.

I also submit requests as follows:

By Professor Ricker—		
For tools, etc., for architectural shops.....		\$511 00
For 4 wood lathes.....		160 00
For vertical drawing board.....		30 00
Total.....		\$701 00
By Professors Palmer and Parr—		
For lamps, filter stands, etc.....		\$135 00
For platinum ware.....		250 00
For filter pumps.....		75 00
For fitting up store room.....		300 00
Total.....		\$760 00

By Professor Baker:—	
For apparatus.....	\$655 00
For bridge joints.....	300 00
Total.....	\$955 00
By the Dean of the College of Engineering—	
For a computing machine.....	\$200 00
For apparatus for the testing laboratory.....	500 00
Total.....	\$700 00

There has been a desire expressed on the part of most of the members of the Faculty for considerable additions to the library. It is indeed impossible to do the best work in several of the departments without these needed books. I respectfully repeat the proposal made by our former Regent, Dr. Peabody, that \$4,000 be assigned for this purpose, one-half the amount to be taken from the congressional fund for year ending June 30, 1891, and one-half from that of year ending June 30, 1892, when this last is available.

I also respectfully ask that an assignment of \$150 be made for furniture for the Regent's office and parlor. The chairs now on hand for these rooms are quite too few in number, and a new carpet in the office would be a very desirable addition.

At your meeting in March of this year you appropriated \$100 for making wax models of fruits, etc. This work has been in progress during the summer with satisfactory results. We now find that it is desirable to use in this way \$50 more, if this may be permitted.

A report by Professor Morrow is herewith submitted for your information concerning the farm:

#### FARM REPORT.

UNIVERSITY OF ILLINOIS, Sept. 7, 1891.

*Dr. T. J. Burrill, Acting Agent.*

SIR: During the three months ending September 1st,

The receipts of the farms have been.....	\$1,047 59
The expenditures have been.....	722 56
Leaving balance to credit of farms of.....	\$325 03

The receipts may be classified as follows:

Wheat.....	\$321 60
Oats.....	148 78
Hay.....	182 48
Rent.....	190 00
Live stock.....	167 33
Miscellaneous.....	37 40

The expenses may be classified as follows:

Labor.....	\$597 69
Live stock.....	42 23
Machinery and repairs.....	53 29
Miscellaneous.....	29 35

During a part of the three months the farms suffered from drouth. The pastures were eaten closer than for years. There was some inconvenience from lack of water. The hay crop suffered somewhat. About 130 tons were secured in good condition. The wheat crop, aggregating about 420 bushels, was quite good, and the oat crop of about 1,600 bushels, was unusually good in yield and quality. The corn crop promises to be somewhat above an average. The live stock on the farms, as a whole, has done well. The new barn on the experiment farm has been enclosed, and the work is progressing rapidly. The extension of the water pipes to this barn and the dairy house, etc., has been completed, greatly to the relief of the farm and experiment work. The financial statements concerning these will be presented by the Business Agent.

Respectfully submitted,

G. E. MORROW.

I also present a communication from Miss Kimball in regard to the fee for music lessons, and invite your attention to it.

Your attention is asked to the status of Green street as a public thoroughfare. The question as to the party responsible for the maintenance of the sidewalk on the south side of this street has long been a debatable one. The walk is now badly out of repair and in a dangerous condition. By consulting page 142 of the 'Transactions of the Board of Trustees, 1868, it will be seen that the opening of this street for public purposes was duly authorized, though no deed to the land, from the University to the City of Urbana, was ever placed on file. Is it not wise that action be taken now by you, such as will be necessary to place the care of the street in the city within whose corporate limits it lies? If so, an agreement should be first required of the city authorities to keep the street and walk in proper order, without expense to the University.

Attention is also asked to the matter of the western land sales. The committee to which this was referred consisted of Dr. Peabody, Mr. Charles Bennett and the Business Agent. Evidently a new committee should be appointed with such instructions as you may desire to give.

During the summer vacation Mr. E. E. Chester, chairman of committee on educational exhibits of the Illinois Board of Commissioners of the World's Columbian Exposition, asked to meet as many members of the Faculty as could be convened to consult in regard to a proposed exhibit by the University. This meeting was held and a committee of the Faculty was appointed to estimate the cost and space required for such exhibit. Nothing very definite could be arrived at, but a total sum of \$13,000.00 for the preparation of the exhibit, \$2,000.00 for cases, and \$3,000.00 for attendance, together with 8,000 square feet of floor space was proposed. This preliminary and wholly unauthorized report was made to the Commissioners at their July meeting in Chicago. It is quite probable that something like this amount of money and of floor space will be assigned by the Commissioners for the purpose, if found necessary. It appears to me the time has fully come for your honorable body to take some action upon the subject, first, by authorizing the preparation of an exhibit under the direction of members of the Faculty and at the cost of the Illinois Commission and second, by the appointment of a suitable committee with proper authority, to which all matters pertaining to the exhibit should be referred.

I submit herewith the quarterly report of the President of the Agricultural Experiment Station.

#### AGRICULTURAL EXPERIMENT STATION.

*Professor T. J. Burrill, Acting Regent.*

DEAR SIR: The Board of Direction of the Agricultural Experiment Station presents the following papers:

Paper A is a statement of expenditures for the year ending June 30, 1891.

Paper B is a statement of expenditures for the quarter ending June 30, 1891.

Paper C is a statement of appropriations, expenditures, and balances for the quarter ending September 30, 1891.

Paper D is a list of warrants drawn, No. 968 to 1,021, inclusive, and No. 1 to 33, except No. 20, and is accompanied with vouchers for the same.

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

PAPER A—FINANCIAL STATEMENT FOR THE YEAR ENDING JUNE 30, 1891.

<i>Receipts.</i>	
Appropriated by Congress.....	\$15,000 00
From State Board of Agriculture for analyses of fertilizers.....	90 00
	<hr/> \$15,090 00
<i>Expenditures.</i>	
Buildings and repairs.....	\$310 73
Board expense.....	75 41
Books and publications.....	711 63
Botanical apparatus.....	165 13
Bulletins.....	1,625 52
Chemical apparatus.....	728 41
Fertilizers.....	27 08
Fuel and lights.....	306 46
Incidentals.....	52 90
Printing, stationery, and postage.....	110 36
Salaries.....	6,488 52
Seeds and trees.....	54 62
Tools and supplies.....	259 03
Wages and teams.....	3,589 68
<i>Sundry—</i>	
Corn and wheat experiments.....	170 63
Dairying experiments.....	141 98
Dairy house fittings.....	226 14
State Fair exhibit.....	45 77
Total.....	<hr/> \$15,090 00

URBANA, ILL., September 8, 1891.

To the Trustees of the University of Illinois.

GENTLEMEN: The foregoing is a true statement of the receipts and expenditures of the Agricultural Experiment Station of the University of Illinois for the fiscal year ending June 30, 1891.

Respectfully submitted,

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

W. L. PILLSBURY, *Secretary Board of Direction.*

PAPER B—STATEMENT OF EXPENDITURES FOR QUARTER ENDING JUNE 30, 1891.

Buildings and repairs.....	\$280 73
Board expense.....	21 56
Books and publications.....	454 88
Botanical apparatus.....	104 65
Bulletins.....	387 72
Chemical apparatus.....	353 68
Fertilizers.....	16 08
Fuel and lights.....	132 30
Incidentals.....	22 50
Printing, stationery, and postage.....	41 85
Salaries.....	1,395 00
Seeds and trees.....	31 11
Tools and supplies.....	206 88
Wages and teams.....	985 65
<i>Sundry—</i>	
Corn and wheat experiments.....	77 71
Dairying experiments.....	25 44
Dairy house fittings.....	226 14
Total.....	<hr/> \$4,763 88

## PAPER C—STATEMENT APPROPRIATIONS, EXPENDITURES, AND BALANCES FOR THE QUARTER ENDING SEPTEMBER 30, 1891.

	Appropriated	Expended.	Balance.
Buildings and repairs .....	\$10 00		\$10 00
Board expense .....	40 00		40 00
Books and periodicals .....	50 00	\$1 63	48 37
Botanical apparatus.....	70 00		70 00
Bulletins.....	250 00	44 70	205 30
Chemical apparatus.....	275 00	18 97	256 03
Fuel and lights.....	60 00		60 00
Incidentals.....	25 00		25 00
Printing, stationery, and postage.....	25 00	2 10	22 90
Salaries.....	1,750 00	1,108 34	641 66
Tools and supplies .....	35 00		35 00
Wages and teams.....	1,050 00	524 30	525 70
<i>Sundry experiments—</i>			
Dairying experiments.....	100 00	3 75	96 25
Wheat and other experiments in southern Ill..	100 00	2 00	98 00
Total.....	\$3,840 00	\$1,705 79	\$2,134 21

## PAPER E—ESTIMATES.

<i>For quarter ending September 30, 1891.</i>	
Fertilizers.....	\$10 00
Seeds and trees.....	25 00
	<u>\$35 00</u>
<i>For quarter ending December 31, 1891.</i>	
Buildings and repairs.....	\$25 00
Board expense.....	40 00
Books and periodicals.....	250 00
Botanical apparatus.....	10 00
Bulletins.....	350 00
Chemical apparatus.....	50 00
Fuel and lights.....	100 00
Incidentals.....	25 00
Printing, stationery, and postage.....	25 00
Salaries.....	1,800 00
Seeds and trees.....	20 00
Tools and supplies.....	50 00
Wages and teams.....	850 00
<i>Sundry experiments—</i>	
Dairying experiments.....	100 00
Wheat and other experiments.....	25 00
Drainage.....	25 00
Exhibit at State Fair.....	60 00
Total.....	<u>\$3,805 00</u>

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

The Board also asks that Paper A be passed upon by the Trustees in order that it may be used as a basis of the financial report which by law must be made for the year ending June 30, 1891, to the Governor of the State and to the Secretary of the Treasury of the United States.

The Board of Direction will continue its work in the lines already laid down and does not at this time ask authority to undertake any new work.

The Board thinks it desirable to make an exhibit of some of its work at the State Fair again this year, and has inserted in the estimates for the next quarter an amount of sixty dollars to defray the expenses of such an exhibit.



The Board has also passed the following resolutions:

*Resolved*, That it is the opinion of this Board that such an exhibit should be made at the World's Columbian Exposition as will best illustrate the work of the Experiment Station.

*Resolved*, That this Board approves of the proposal to have a "Collective Exhibit of the Work of the Agricultural Experiment Stations of the Country" at the World's Columbian Exposition, and of this Station's giving such aid as shall be practicable in the preparation of such exhibit.

Respectfully submitted,

G. E. MORROW,

*President Board of Direction.*

In these several recommendations and requests of the Experiment Station I fully concur.

For the matters concerning appointments of new instructors, I refer to the report of the Committee on Instruction. For those concerning the military department and for the revision of rules, to the special committees upon these subjects. Also for information about the new science building to the Committee on Buildings and Grounds.

I am, very respectfully yours,

T. J. BURRILL,

*Acting Regent.*

The Board then adjourned to meet at the Doane House, in Champaign, at 7:30 o'clock p. m.

#### EVENING SESSION.

The Board met at the Doane House pursuant to adjournment. Present, Mr. Bryant and the same members who had been present in the afternoon.

The minutes of the last two meetings were approved.

The Treasurer, Mr. John W. Bunn, presented the following report, which was referred to the Committee on Finance:

#### TREASURER'S REPORT.

JOHN W. BUNN, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

		<i>Dr.</i>		
1891.				
June	9	To balance .....		\$14,983 08
	15	.. interest on Urbana school bonds .....	\$550 00	
		.. .. Morgan county .....	1,400 00	
		.. .. Montgomery county school bonds .....	720 00	
		.. .. Homer school bonds .....	375 00	
				3,045 00
		.. .. on land contract No. 10, John Ellis .....	\$109 20	
July	2	.. .. No. 12, H. C. Kludas, .....	180 00	
				289 20
		.. .. Champaign county bonds .....	\$3,600 00	
		.. .. Pike county .....	2,100 00	
		.. .. Sangamon county .....	880 00	
		.. .. Chicago water .....	875 00	
		.. .. Macoupin county .....	660 00	
		.. .. Sangamon county .....	400 00	
		.. .. Pittsfield school .....	630 00	
		.. .. Litchfield school .....	440 00	
		.. .. Montgomery county school bonds .....	260 00	
		.. .. Champaign .....	210 00	
		.. .. Christian .....	120 00	
		.. .. Kankakee .....	1,500 00	
				11,675 00
				900 00

## Treasurer's Report—Continued.

		Dr.		
1891.				
July	8	To amount received from state for taxes on lands in Minnesota.....	\$1,511 24	
		" amount received from state, buildings and grounds....	2,500 00	
		" " " laboratories.....	1,500 00	
		" " " mechanical shops.....	2,000 00	
		" " " books and publications.....	1,000 00	
		" " " specimens for cabinets.....	500 00	
		" " " expenses of instruction.....	20,000 00	
		" " " new boiler for Mil. Hall.....	3,500 00	
		" " " barn and sheds.....	2,500 00	
		" " " furniture.....	1,000 00	
		" " " natural science building.....	30,000 00	
		" " " furniture for.....	5,000 00	
		" " " for Lab'y of Nat. History.....		\$71,011 24
		" " " field work and office expenses.....	\$1,500 00	
		" amount received on account library.....	1,000 00	
		" " " salaries and assistance.....	3,500 00	
		" " " publication of bulletins.....	500 00	
		" " " illustr'n of biennial rep't.....	250 00	
		" " " printing additional copies.....		
		Natural History Survey of Illinois.....	600 00	
		" amount received on account United States act of Congress Aug. 30, 1890, for the year ending June 30, 1891.....		7,350 00
	17	" amount received on account architectural department.....	\$356 51	16,000 00
		" " " fuel and lights.....	63 20	
	31	" " " mechanical department.....	\$50 00	419 71
		" " " architectural department.....	53 26	
Aug.	1	" interest on Champaign school bonds.....	\$810 00	103 26
		" " Morgan county school bonds.....	600 00	
		" " Montgomery county school bonds.....	90 00	
	20	" " ".....	84 00	
		" " land contract No. 12, H. C. Kludas.....		1,584 00
	31	" amount received on account buildings and grounds.....	\$31 00	4 80
		" " " stationery and printing.....	2 25	
		" " " mechanic'l department.....	299 52	
		" " " architectural.....	1,225 39	
		" " " agricultural.....	965 12	
		" " " horticultural.....	195 08	
		" " " laboratories.....	443 02	
		" " " library and apparatus.....	1 35	
		" " " Minnesota lands.....	50 00	
		" " " farm water supply.....	41 01	
		" " " University students' fees.....	417 50	
		" " " preparatory year.....	70 00	
		" " " music fees.....	211 00	3,952 25
				\$131,317 54
		Cr.		
1891.				
Aug.	31	By amount paid on account Board expense.....	\$522 40	
		" " " salaries.....	13,671 79	
		" " " buildings and grounds.....	170 09	
		" " " fuel and lights.....	608 45	
		" " " stationery and printing.....	1,253 74	
		" " " mechanical department.....	428 11	
		" " " architectural.....	1,262 44	
		" " " agricultural.....	722 56	
		" " " horticultural.....	131 77	
		" " " military.....	37 15	
		" " " laboratories.....	141 38	
		" " " library and apparatus.....	14 72	
		" " " incidental expense.....	140 46	
		" " " furniture and fixtures.....	\$23 89	
		" " " commencement.....	189 71	
		" " " music fees.....	211 00	
		" " " gymnasium.....	2 15	
		" " " Minnesota lands.....	7 15	
		" " " premium on bonds.....	300 00	
		" " " farm water supply.....	1,057 13	
				\$19,105 06
				1,791 03

Treasurer's Report—*Concluded.*

		Cr.		
1891.	State appropriations—			
Aug. 31	By amount paid on account	taxes on Minnesota lands.....	\$1,511 24	
		buildings and grounds.....	1,716 92	
		apparatus and materials.....	37 00	
		mechanical and arch'l shops..	181 13	
		books and publications.....	68 06	
		cabinets.....	223 58	
		farm barn .....	1,618 77	
		furniture .....	47 60	
		State Laboratory of Natural		
	History.....		2,700 96	
	“ amount paid on account	United States fund.....		\$8,105 26
	“ balances—Current funds		\$5,991 86	3,490 44
		United States fund.....	18,446 47	
		State appropriations.....	74,387 42	
				\$98,825 75
				<u>\$131,317 54</u>

Urbana, September 8, 1891.

JOHN W. BUNN, *Treasurer.*

The Treasurer stated that he had received from payment of bonds held as a part of the endowment fund, \$14,700.00; and that he had bought bonds for this fund to the amount of \$36,150.00, at a premium of \$1,199.00 for which he asked an appropriation.

On motion of Mr. Cobb, the report on the endowment fund was received, and the amount of \$1,199.00 was appropriated from current funds to pay the premium.

The Business Agent, Professor Shattuck, presented the following report:

## BUSINESS AGENT'S REPORT.

UNIVERSITY OF ILLINOIS, Sept. 8, 1891.

*Samuel A. Bullard, Esq., President Board of Trustees, University of Illinois,*

DEAR SIR: I have the honor to hand you herewith the following financial statements and reports:

Paper A is a statement of the current appropriations for the six months ending September 1, 1891.

Paper B gives the condition of the state appropriations, September 1, 1891.

Paper C gives the condition of the United States fund, September 1, 1891.

Paper D is a list of vouchers presented for audit, being 776 to 1,100 inclusive.

Paper E is an estimate of receipts and expenses for the twelve months ending September 1, 1892.

Paper F is a list of the usual appropriations for six months.

The Board is also asked to make the following assignments from state appropriations:

From appropriations for buildings and grounds—

For general repairs .....	\$400 00
---------------------------	----------

From appropriation for mechanical and architectural shops—

For power, tools and materials.....	\$1,200 00
-------------------------------------	------------

From appropriation for books and publications—

For books and periodicals.....	\$837 50
--------------------------------	----------

From appropriation for apparatus and materials—

For chemie l laboratory supplies.....	\$600 00
---------------------------------------	----------

From appropriation for expenses of instruction—

For salaries.....	\$20,000 00
-------------------	-------------

From U. S. fund—

For salaries.....	\$8,000 00
-------------------	------------

Paper G is a report for the Library Committee of the expenditure of the \$1,000 received from the state.

Paper H is a report for the committee on Minnesota Lands.

Respectfully submitted,

S. W. SHATTUCK, *Business Agent.*

## PAPER A—CURRENT APPROPRIATIONS.

March 10, June 9, August 7, 1891.	Appropri'd	Receipts also appropri'd.	Exp'nded.	Balance.
Board expense .....	\$1,000 00	.....	\$707 74	\$292 26
Salaries for instruction.....	26,820 00	.....	17,034 16	218 66
{ Current...			2,067 18	
{ State.....			7,500 00	
{ U. S. fund.			2,238 91	11 09
" " services.....	2,250 00	.....	346 83	429 17
Buildings and grounds.....	715 00	\$61 00	1,022 25	92 21
Fuel and lights .....	1,000 00	114 46	1,584 27	317 98
Stationery and printing.....	1,900 00	2 25	675 71	95 21
Mechanical department.....	200 00	570 92	1,651 38	634 02
Architectural .....	200 00	2,085 40	1,261 22	1,205 99
Agricultural .....	200 00	2,267 22	192 85	364 23
Horticultural .....	100 00	457 08	70 37	29 63
Military .....	100 00	.....	446 41	642 05
Laboratories.....	200 00	888 46	45 10	6 25
Library and apparatus.....	50 00	1 35	303 42	18 91
Incidentals.....	322 33	.....	.....	.....
<i>Sundries—</i>				
Water supply.....	200 00	.....	200 00	.....
Furniture and fixtures.....	200 00	.....	136 63	63 37
Moving machine shop.....	90 81	.....	3 20	87 61
Gymnasium.....	117 71	6 00	147 12	.....
Griggs farm.....	53 50	.....	53 50	.....
Commencement .....	200 00	.....	189 71	10 29
Grading campus.....	550 00	.....	350 00	.....
University fees.....	.....	3,427 50	.....	3,427 50
Preparatory year.....	.....	570 00	664 98	.....
Music fees.....	.....	416 00	416 00	.....
Lumber sheds, etc.....	1,000 00	.....	.....	1,000 00
Agricultural convention.....	75 00	.....	.....	75 00
Minnesota lands.....	.....	50 00	7 15	42 85
Premium on bonds.....	300 00	.....	300 00	.....
Farm water supply.....	1,000 00	41 06	1,057 13	.....

## PAPER B—STATE APPROPRIATIONS.

	Received.	Expended	Balance.	Assigned.
Taxes on Minnesota lands.....	\$1,511 24	\$1,511 24	.....	.....
Buildings and grounds.....	2,500 00	1,527 67	\$972 33	\$101 91
Apparatus and material.....	1,500 00	37 00	1,463 00	178 00
Mechanical and architectural shops .....	2,000 00	.....	2,000 00	.....
Books and publications.....	1,000 00	.....	1,000 00	162 50
Cabinets.....	500 00	338 42	161 58	161 58
Expenses of instruction.....	20,000 00	.....	20,000 00	.....
Heating Military Hall .....	3,500 00	.....	3,500 00	.....
Farm barn .....	2,500 00	1,618 77	881 23	881 23
Furniture.....	1,000 00	47 60	952 40	177 50
Natural science building.....	30,000 00	.....	30,000 00	.....
Furniture for same.....	5,000 00	.....	5,000 00	.....
Metallurgical laboratory .....	4,000 00	2,950 43	1,049 57	.....
Illinois State Laboratory of Natural History.	\$75,011 24	\$8,031 13	\$66,980 11	\$1,662 72
	8,900 27	1,492 96	7,407 31	2,682 24

## PAPER C—UNITED STATES FUND.

	Received.	Exp'nded.	Balance.	Assigned.
<i>Year ending June 30, 1890.</i>				
Salaries for instruction .....	\$7,500 00	\$7,500 00	.....	.....
Electric laboratory .....	2,500 00	2,393 78	\$106 22	\$106 22
Mechanical .....	1,000 00	593 98	406 02	406 02
Chemical .....	1,000 00	651 60	348 40	348 40
Civil engineering .....	500 00	408 38	91 62	91 62
Botany and physiology .....	500 00	81 86	418 14	418 14
Natural history .....	2,000 00	536 05	1,463 95	1,463 95
	\$15,000 00	\$12,165 65	\$2,834 35	\$2,834 35
<i>Year ending June 30, 1891.</i>				
Salaries for instruction .....	\$8,000 00	.....	\$8,000 00	.....
Physical laboratory .....	1,175 00	\$364 63	810 37	\$810 37
Electric .....	500 00	.....	500 00	500 00
Chemical .....	150 00	.....	150 00	150 00
Architectural department .....	1,000 00	23 25	976 75	976 75
General .....	5,175 00	.....	5,175 00	.....
	\$16,000 00	\$387 88	\$15,612 12	\$2,437 12

## PAPER G—STATEMENT OF THE STATE APPROPRIATION FOR BOOKS AND PUBLICATIONS FOR THE TWELVE MONTHS ENDING SEPTEMBER 1, 1891.

September 1, 1890, balance .....		\$1,000 00
Warrant No. 120—Pantagraph Printing and Stationery Company, binding .....	\$192 44	
“ 121—A. C. McClurg & Co., books .....	6 96	
“ 126—L. C. Scott Publishing Co., subscription .....	4 00	
“ 127—McDonnell Bros., books .....	5 00	
“ 128—U. S. Patent Office, binding .....	31 20	
“ 166—Johns Hopkins Press, books .....	7 50	
“ 167—Railroad Gazette, subscription .....	2 10	
“ 168—Engineering News Co., book .....	5 00	
“ 169—Popular Science News Co., subscription .....	2 00	
“ 234—Sereeno Watson, books .....	18 00	
“ 242—A. E. Foote, atlas .....	7 00	
“ 284—Dibble Publishing Co., book .....	3 00	
“ 285—Massachusetts Board of Agriculture, books .....	3 00	
“ 286—Kenyon News Company, subscriptions .....	211 55	
“ 287—A. C. McClurg & Co., books .....	3 37	
“ 368—McDonnell Bros., books .....	5 00	
“ 571—American Philological Association, book .....	2 50	
“ 572—Kenyon News Company, subscription .....	3 10	
“ 573—D. H. Lloyd & Son, books .....	233 07	
“ 709—A. C. McClurg & Co., books .....	7 64	
“ 710—D. H. Lloyd & Son, books .....	138 25	
“ 711—Studies in Natural History, books .....	5 50	
“ 712—Ginn & Co., books .....	2 00	
“ 713—D. C. Heath & Co., books .....	6 80	
“ 714—McDonnell Bros., books .....	5 00	
“ 715—Carl Schoenhof, books .....	11 31	
“ 716—Kenyon News Co., books .....	3 65	
“ 801—D. Appleton & Co., book .....	6 00	
“ 842—Railroad Gazette, back numbers .....	1 50	
“ 843—Johns Hopkins Press, book .....	5 00	
“ 844—Journal of Association of Engineers, subscription .....	3 00	
“ 845—Kenyon News Co., subscriptions .....	5 90	
“ 852—Engineering News Co., Index .....	1 00	
“ 936—Gustav E. Stechert, books .....	49 16	
“ 937—A. C. McClurg & Co., books .....	2 50	
		\$1,000 00

MINNESOTA LANES.

UNIVERSITY OF ILLINOIS, September 8, 1891.

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

GENTLEMEN: The committee on sale of Minnesota lands offers the following report of its work since August 7, 1891:

Sold, August 13, 1891, to Olof Mattson, the N. W.  $\frac{1}{4}$ , 10, 117, 35, 160 acres for \$10 per acre; cash received, \$400; on time, \$1,200.

This makes total amount of sales to date, \$12,381.90.

Your committee respectfully suggests that the Secretary of the Board might well be added to it; also some additional members.

Respectfully submitted,

S. W. SHATTUCK,

*Committee on Minnesota Lands.*

The following appropriations, for the six months ending February 29, 1892, as asked for in Paper F, presented by the Business Agent, were then made, on motion of Mr. Cobb:

Board expense.....	\$600 00
Salaries for instruction.....	28,870 00
Salaries for services.....	3,030 00
Buildings and grounds .....	400 00
Fuel and lights.....	2,500 00
Stationery and printing.....	600 00
Mechanical department.....	200 00
Architectural .....	200 00
Agricultural .....	200 00
Horticultural .....	100 00
Military .....	100 00
Laboratories .....	600 00
Library and apparatus .....	50 00
Incidentals .....	340 00
Furniture and fixtures .....	200 00
Water supply.....	200 00
Gymnasium .....	100 00
Lumber sheds, etc.....	1,000 00
Agricultural convention.....	75 00
Minnesota lands .....	40 00
Farm barn.....	1,000 00
	<hr/>
	\$40,365 00

The assignments from state and congressional appropriations, as asked in the Business Agent's report, were then made, on motion of Mr. Cobb.

The report on the expenditure of the state appropriation for the library, was referred to the Finance Committee.

The report on Minnesota lands was approved, and the President of the Board, the Secretary, and the Business Agent, were made the committee on the sale of these lands.

The special committee on military affairs made a report, which, after it had been read and discussed, was recommitted, to be revised by the committee.

The Board then adjourned to meet at 9 o'clock Wednesday morning in the University Parlor.

## WEDNESDAY'S SESSION.

The Finance Committee submitted the following reports which were approved:

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

GENTLEMEN: Your committee on Finance has examined vouchers of the University of Illinois on which warrants No. 776 to 1,100, inclusive, except No. 1,081, have been issued and has found the same correct in amount and properly receipted.

Respectfully submitted,

WM. W. CLEMENS, }  
NELSON W. GRAHAM, } *Finance Committee.*

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

GENTLEMEN: Your committee on Finance has examined the vouchers of the Experiment Station on which warrants No. 896 to 1,021, inclusive, and No. 1 to 33, inclusive, except No. 20, have been issued and has found the same correct in amount and properly receipted.

Respectfully submitted,

WM. W. CLEMENS, }  
NELSON W. GRAHAM, } *Finance Committee.*

The Committee on Buildings and Grounds made the following report on the new building:

## BIDS FOR THE NEW BUILDING.

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

GENTLEMEN: Your Committee on Buildings and Grounds begs leave to report that the drawings and specifications for the new natural science building were completed by the architect and that proposals were called for to be in the hands of the Secretary of the Board September 7th. Three proposals were received for the construction for the complete work as specified, one for the excavation alone, one for stone and brick masonry alone, two for slate and metal work alone, and one for plastering alone. The architect's estimate of the cost of the building was \$60,000.

The bids for the complete work were too high, running considerably over the appropriation. There were not enough of the partial bids to cover all of the work had they been united.

After due consideration of the matter your Committee recommends that all bids received be rejected, that new bids be requested for the building in accordance with the amended drawings and specifications herewith submitted; that each contractor from whom bids have been received be notified in writing of this action, and that the new bids be received until noon of Monday, Sept. 21, 1891, and be opened at 2 p. m. on the same day.

Respectfully submitted,

S. A. BULLARD, }  
NELSON W. GRAHAM, } *Committee on Buildings and Grounds.*

The report of the committee was approved on motion of Mr. Cobb.

The Board then, on recommendation of the Committee on Buildings and Grounds, ordered that a warrant for \$750 be drawn in favor of Professor Ricker for services as architect.

The Board also appropriated \$50, to be used, so far as may be needed, in payment of bills for advertising for proposals for the new building.



Professor Ricker made a full explanation of changes in the plans for the building and in the specifications, and stated what difference these would make in the cost.

The matter of receiving bids was, on motion of Mr. Shawhan, referred to the Executive Committee and the Committee on Buildings and Grounds jointly, with full power to act thereon, and to authorize the President and Secretary to contract for the erection of the building upon a satisfactory bid.

The President and Secretary were instructed to attend to advertising for bids.

The Committee on Buildings and Grounds made this report on furnishing a room for the new society, the *Academy*:

#### HALL FOR THE ACADEMY.

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

GENTLEMEN: Your Committee on Buildings and Grounds, to which was referred the petition of the committee of the new literary society in the University, the *Academy*, for the use of the physical lecture room as a society hall, and for the proper fitting up of said room for that purpose, after having had the same under consideration asks leave to report:

That the use of the room be granted for the time requested.

That five dozen chairs be purchased, not exceeding one dollar each in cost.

That the necessary matting for aisles be purchased, not exceeding forty dollars cost.

If it be found that more satisfactory arrangements for rooms may be made by the Faculty, that the Faculty be authorized to do so, using the appropriations herein stated.

Respectfully submitted,

September 9, 1891. S. A. BULLARD,  
NELSON W. GRAHAM, } *Committee.*

The report was approved and the appropriation made as asked, on motion of Mr. Cobb.

The special committee on military affairs made the following revised report:

#### MILITARY AFFAIRS.

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

GENTLEMEN: Your special committee on military affairs submits the following report:

1. Every male student shall study military tactics, and shall recite upon the same once a week until he passes two creditable term examinations; and every male student, not excused for physical disability, or other cause hereinafter specially provided, shall have military drill twice a week until he obtains six creditable term records. Those selected as officers shall continue the recitations as above during their time of service.

2. The class room instruction and the drill practice shall begin for each student as soon as practicable after he enters the University; *Provided*, That students in the preparatory classes carrying no freshman studies, and not expecting to matriculate during the year, shall not be thus enrolled.

3. Officers of the battalion shall be nominated by the professor in charge and confirmed by the Faculty. All students having passed two term examinations in class room military instruction, and having gained

two term credits in drill practice shall be eligible for corporals; those having three term credits in each shall be eligible for sergeants; and those having six term credits in each shall be eligible for lieutenants and for officers of higher rank.

Proficiency and capacity in the military department shall be the basis of promotion in the battalion; *Provided*, That any serious college censure shall disqualify in this respect.

4. Special military scholarships shall be created, good for one year, to which shall be attached a money value of twenty-two and one-half dollars. Students attaining the rank of commissioned officers shall be eligible for these scholarships, and one scholarship shall be awarded to each such officer actually serving in the battalion, one-third its value to be payable at the close of each University term

Your committee recommends that the above report be referred to the committee on rules, with instructions to revise immediately all rules relating to the military department on this basis, and that the Faculty be authorized to proceed under them, at once.

G. R. SHAWHAN, }  
S. A. BULLARD, } *Committee.*  
T. J. BURRILL, }

The report was approved.

The Committee on Buildings and Grounds made the following report, which was approved and the appropriation made:

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

GENTLEMEN: Your Committee on Buildings and Grounds has inquired into the cost of providing a flag pole and flags for the military department and finds that a pole of Washington cedar, 100 feet above ground may be had for \$225; and that a set of flags of government sizes may be had for \$55.

In order to make the military department more interesting and instructive to the students, the committee recommends that appropriations for the amounts herein be made, and that a flag pole and flags be obtained for use of the military department.

S. A. BULLARD, }  
NELSON W. GRAHAM, } *Committee on*  
*Buildings and Grounds.*

The Secretary presented the following petition, stating that Miss Katherine L. Kennard, when she handed him the petition, had said that another petition in the same language and numerously signed had failed to reach her in season. The Secretary also presented a large number of letters received by him, relating to the subject of the petition:

#### PETITION.

We, the undersigned, do petition the Trustees of our Alma Mater, the University of Illinois, to weigh and consider the question of making this a *Co educating* as well as a *Co-educational* institution.

At present, the young women here in attendance are without representation in the Faculty of the University.

Believing the highest good to students comes through co-educating influences, we beseech you, O Trustees of the University of Illinois, in the name of Reason, Truth, and Justice, and in behalf of the best interests of the University and of the State of Illinois, to appoint women to professorships, making them full professors in the said University of Illinois.

The petition had 36 signatures.

The Board, after expressing its hearty approval of the request of the petitioners and its sympathy with their aims, referred the petition and letters to the Committee on Instruction.

The Committee on Instruction presented the following report, which was approved

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

GENTLEMEN: Your Committee on Instruction, pursuant to your directions, begs to report that, in consideration of the increased labors of the Acting Regent, the sum of one thousand dollars per annum be paid him in addition to his regular salary for the time he acts as such Regent.

Respectfully submitted,

HENRY RAAB, } Committee on  
G. R. SHAWHAN, } Instruction.

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

*Resolved*, That the pledge heretofore required of candidates for entrance to the University in regard to college fraternities be omitted, and that the subject of these fraternities be referred to the committee on rules.

A telegram from Professor DeGarmo was read, stating that he had accepted the presidency of Swarthmore College. This being taken as in effect a resignation by him of the professorship of psychology, it was

*Resolved*, That we learn with great regret that Professor Charles DeGarmo resigns his position of professor of psychology in this University, but that we feel constrained to accept the resignation, to take effect, however, December 31, 1891.

The matter of building the new dry house and lumber sheds was put into the hands of Professor Ricker and the Business Agent on motion of Mr. Raab.

On motion of Mr. Cobb, Professor Stratton was instructed to get bids for a new engine, such as was desired for the electrical laboratory, and to report the same to the Board at its next regular meeting.

On motion of Mr. Cobb, \$500 was appropriated from the metallurgical laboratory fund for the purchase of mineralogical specimens, the amount to be expended by the Business Agent and Professor Baldwin.

On motion of Mr. Shawhan, \$60 was appropriated from the U. S. fund for the purchase of tools for class use in the geology and mineralogy classes, the amount to be expended by the Business Agent and Professor Rolfe.

On motion of Mr. Cobb, it was voted that appropriations be made as follows:

From U. S. fund.....	\$430 00
From state appropriations for shops.....	241 00
From state appropriations for apparatus and material.....	30 00

these amounts to be expended by Professor Ricker and the Business Agent in the purchase of tools, lathes, and a drawing board, as asked by the Regent, on Professor Ricker's recommendation.

On motion of Mr. Raab, \$700 was appropriated from the U. S. fund for the purchase of a Burkhard's Thomas's computing machine and of apparatus for the college of engineering, as requested; the amount to be expended by the Business Agent and Professor Ricker.

On motion of Mr. Raab, \$2,000 was appropriated from the U. S. fund for the purchase for library of books useful in "instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural, and economic science, with special reference to their applications in the industries of life."

For chairs and other furniture needed in the Regent's office and the University parlor, \$150 was appropriated from current funds on motion of Mr. Raab.

On motion of Mr. Graham, \$50 from the U. S. fund was appropriated for making wax models of fruit.

On motion of Mr. Raab, \$460 was appropriated from the U. S. fund, and \$300 from current funds to meet the requests of the chemical department, to be expended by the Business Agent and Professors Palmer and Parr.

For the purchase of additional apparatus and a set of bridge joints for use in the department of civil engineering, \$955 from the U. S. fund was appropriated on motion of Mr. Raab, to be expended by Professor Baker and the Business Agent.

It was voted that, in view of the publication made in the catalogue, it would not be just to change the amount of the music fees for this year. The Committee on Instruction was directed to confer with Miss Kimball, instructor in music, and report to the Board at the next regular meeting what changes should be made in regard to music in the next catalogue.

The matter of a sidewalk on the south side of Green street was referred to the Committee on Buildings and Grounds for investigation, and report at the next meeting.

The Board voted that the University should make an exhibit at the World's Columbian Exposition, and that the matter of outlining such exhibit and determining its character and extent be referred to the Faculty, to be reported upon at the next regular meeting of the Board, or to the Executive Committee of the Board, if necessity should arise for earlier action.

Paper A, submitted in the report of the Experiment Station, was referred to the Committee on Finance.

On motion of Mr. Shawhan, the report of the Agricultural Experiment Station was approved for record, and appropriations of Station funds were made as asked in that report.

The matter of securing a professor of mechanical engineering was referred to the Regent and the Committee on Instruction, with power to act in conjunction with Executive Committee of the Board.

Authority was, on motion of Mr. Cobb, given to the committee in charge of the construction of the farm barn, to use any surplus of the \$3,500 appropriated for this purpose in the construction of sheds, and other buildings needed as adjuncts of the barn.

The Committee on Finance submitted the following reports, which were approved for record:

URBANA, ILL., September 8, 1891.

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

GENTLEMEN: Your Finance Committee, to which were referred the statement of the receipts and expenditures of the Agricultural Experiment Station for the year ending June 30, 1891, and the Treasurer's warrants No. 737 to 1,021, inclusive, reports that it has examined the same and finds them correct, and that the receipts have been \$15,090.00 and the expenditures \$15,090.00.

Respectfully submitted,

WM. W. CLEMENS, }  
NELSON W. GRAHAM, } *Finance Committee.*

URBANA, ILL., September 9, 1891.

The undersigned, your Finance Committee, having examined the Treasurer's report bearing date September 8, 1891, showing by topics or subjects the disbursements and the receipts from June 1, 1891, to August 31, and finding no error recommends its approval.

To facilitate comparisons between reports and warrants and vouchers we suggest that financial reports contain references, by figures, letters, or characters to be endorsed on such warrants and vouchers identifying them with the topics in the reports; and that reports be accompanied with such arrangements of the warrants and vouchers, or an index referring to them, as will simplify comparisons by the committee.

Respectfully submitted,

WM. W. CLEMENS, }  
NELSON W. GRAHAM, } *Finance Committee.*

The Finance Committee returned the library statement approved for record.

On motion of Mr. Cobb, the matter of heating Military Hall was referred to the President, Professor Ricker, and the Business Agent, the work to be done within the limits of the state appropriation.

On motion of Mr. Graham, it was voted that the Regent be authorized to employ such assistance in his office as he needed, and \$40 a month was appropriated for the same.

Adjourned.

W. L. PILLSBURY,  
*Secretary.*

S. A. BULLARD,  
*President.*

## MEETING OF DECEMBER 8, 1891.

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, at 3 o'clock p. m., Tuesday, December 8, 1891. Immediately after the call to order a recess was taken so that the members of the Board might attend the exercises at the raising the United States flag upon the new flag-staff just erected in front of Military Hall.

When the Board convened again there were present Messrs. Bullard, Clemens, Cobb, Funk, Graham, McKay, McLean, Morgan, Raab and Shawhan; absent, Governor Fifer and Mr. Bryant.

The minutes of the last meeting were approved.

Professor Burrill, Acting Regent, presented his report:

## REGENT'S REPORT.

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

GENTLEMEN: Time with us at the University has swiftly passed since your last regular meeting in September. Teachers and students, in the numerous classes, have worked together in thorough accord and have worked hard. It is believed that admirable results have been accomplished.

## ENROLLMENT OF STUDENTS.

The number of students enrolled for the term to date is 545, against 519 for the last entire college year, and 469 for the preceding year. This increase in number of students, while gratifying and hopeful, materially increases the labor of instructors and in certain departments surpasses the proper equipment heretofore provided for the classes. This seems especially true in the departments of mechanical and civil engineering, but is also seriously felt elsewhere. For instance, there have been during the present term 101 students in projection drawing—a freshman subject required in all the engineering courses. Last year there were 82 in the same class. Heretofore this subject has been taught in two sections, and similar provision was made for the instruction this year; but the number proved too great both for the number of drawing desks in use and for the possibilities of the instructor. Three sections, each having two hours, were accordingly made. A similar division also became necessary in the preparatory mathematics, and in some other classes should have been made had it been found feasible. Three students, mechanical engineering sophomores, have worked all the term at desks set in the hall, because the room was completely filled without them; an overflow class of civil engineers has been temporarily accommodated in one of the botanical rooms. In order to provide for the work of this last class and for extra architectural students 15 desks were made at the shops, and two, accommodating 12 students, were made for the chemical laboratory, all costing

\$120. Your approval of this expenditure is respectfully asked and an appropriation to cover it is needed. Thus it will be seen that the new building comes none too soon. More room is seriously inquired for, and in several departments much better work can be done if it is provided.

#### COMMITTEES OF THE FACULTY.

To facilitate its work the Faculty has constituted ten standing committees from its own membership, each having a designated chairman and each charged with distinct duties. The general purposes of these committees, each in its own department, are: 1st, to originate and to suggest to the Faculty new possibilities of action; 2d, to act on matters specifically referred by the Faculty, and 3d, to act for the Faculty in emergencies. The committees are as follows: (1) Executive, (2) University Extension, (3) Preparatory Schools, (4) Advertisements and Publications, (5) Public Exercises, (6) Military Affairs, (7) Athletic, (8) Students' Welfare, (9) Library, and (10) Museums. Each of these committees has been earnestly at work and has already rendered exceedingly valuable services, stimulating activity and freeing the Acting Regent and the Faculty as a body from numerous time- and energy-consuming details, as well as better satisfying the students and accomplishing better results.

#### MILITARY AFFAIRS.

According to the action taken at your last meeting, greater change has been made in the military department than elsewhere. By the new rules only two years of drill twice a week are required, if proper standing is secured for each term; recitations upon drill regulations are required once a week for two terms of all students, and special military scholarships are created, open to those who have passed these requirements and continue their study in the department and serve as commissioned officers for the battalion. The committee on military affairs, with Professor Snyder as chairman, suggested to the Faculty several subsidiary rules adjusting the new to the old order of things, and has incessantly labored to reorganize the department, to arouse a proper spirit among the students and to make things move in good military order. Though not without some difficulty at first, a very fair corps of officers was secured, and the instruction and practice were well started. Scarcely, however, had this been accomplished when, about October 15th, information was received that the Secretary of War had approved new drill regulations for the United States army, that the changes were numerous and essential, and that instruction in the old tactics had been stopped in the army.

It was obvious that the old tactics could not be retained through the year in the University when dropped everywhere else, though the students had provided themselves with expensive books which would be useless the moment a change was made. It was now found that the new abridged drill regulations for infantry could be obtained at once at 40 cents each, and, believing it unfair to ask the students already supplied with books to buy the new books, 100 copies of these were procured and issued to them as University property, for their present use. Drill was suspended for a time sufficient for the instruction of the officers and then the work went forward again. Under the circumstances, the department is now in fair condition and there is good reason to suppose that the work will move along without friction or trouble.

An appropriation of \$60 is asked for the payment for this term of eight military scholarships already awarded. Also \$9 is asked for by Lieutenant Hills for the purchase of a sword for the sergeant-major of the battalion.

The cadet band is in excellent order, under the leadership of a student, Charles A. Elder. An appropriation of \$12 for music stands is desirable, and a good baritone instrument, costing \$60, would be very useful. Last year the leader had this instrument of his own.

The new flag-staff is in position, the series of flags ordered is on hand, and appropriate ceremonies connected with hoisting the flag have been arranged.

#### ATHLETICS.

The interest in athletics has been very manifest during the term, especially in outdoor games. I see no reason to suppose, however, that any serious detriment to the students' more proper work has occurred; while distinct improvement has been gained in the general spirit of the body of students towards the University and in regard to its general standing with such institutions in the country. The fact that our teams have been winners in the games played, has no doubt contributed to this end. The indoor gymnastics have been under the leadership of a student, Alfred Locke, with two other students as assistants, and the arrangement has proved fairly satisfactory. These men have been paid by the University. The committee of the Faculty upon this subject, Professor Crawford, chairman, has had in the main the general charge of this work, and to this committee belongs the credit of whatever desirable results have been attained.

#### UNIVERSITY EXTENSION.

The question of University Extension has been considerably discussed, and the committee upon this subject, Professor Forbes chairman, has undertaken to provide in a somewhat experimental way for a course of lectures for the citizens of our immediate vicinity. Members of the Board of Trustees have mostly replied to a letter of inquiry asking individual opinions from them as to what the University should undertake in this line. All agree that the experimental course here is worth attempting, and in most cases the opinion is expressed that more should be done if practicable. This has been sufficient to keep the subject fully alive, but not enough to warrant any further definite action. Last spring a meeting was held in Chicago of representatives of collegiate institutions in and near the latter city. A preliminary organization was formed then, and a second meeting was called for November 28th last. This was attended by Professors Forbes and Moss and myself, as representatives of this University. The following named institutions were somewhat similarly represented: Northwestern University, Lake Forest University, Chicago University, University of Wisconsin, Beloit College, Indiana State University and Wabash College. Much discussion was had as to the scope and province of the association, but it was fully agreed that each separate institution should be left free to do what seemed best for itself, quite independent of any domination by the association. But, upon the other hand, the organization is to be regarded as a central bureau, through which any arrangements may be made for "Extension" work. The institutions represented were asked to submit names of possible lecturers and their subjects, with the idea of giving local centers a choice, not from one University merely, but from all those thus associated. Our committee presented names of certain members of our Faculty, subject, however, to the approval of the Trustees, and this question is now submitted for your consideration.

This general subject is one of great importance, to which your earnest attention is invited. The problem presented is a difficult one, and possibly one not susceptible of satisfactory solution at present. But other State Universities are energetically pushing this modern method of education; what they do, we may.

Without attempting to indicate any definite plan of procedure, I venture to recommend that \$500 be assigned from the fund for instruction for the payment of the necessary expenses in preparing lectures (charts, lantern slides, etc.), for printing and incidentals, but not for travel or hotel expenditures; also that authority be given to conduct lectures at any point in Illinois, provided that arrangements can be made to do so without serious interference with the class work at the University. It is presumed that only a few courses can be given under the latter proviso.



## EXHIBIT AT THE WORLD'S COLUMBIAN EXPOSITION.

At your last meeting an exhibition by the University at the World's Columbian Exposition was authorized, and the matter was referred to the Faculty. Progress has been made. I herewith present an outline of the proposed exhibit by the various departments of the University, together with estimates of cost and space for the same.

DESCRIPTION OF THE PROPOSED EXHIBIT OF THE UNIVERSITY OF ILLINOIS  
AT THE WORLD'S COLUMBIAN EXPOSITION, WITH ESTI-  
MATES OF SPACES AND EXPENSE.

## GENERAL EXHIBIT. FIFTY SQUARE FEET AND \$1,100.

Ten exterior views of buildings and grounds, each 16x20.

Ten interior views (chapel, halls, society rooms, etc.), each 16x20.

Graphic representations illustrating history and growth of the University, 6 square feet.

Collection of publications of the University, 6 square feet.

Pamphlets and other descriptive publications of the various colleges, \$1,000.

COLLEGE OF AGRICULTURE AND AGRICULTURAL EXPERIMENT STATION—  
EXHIBITS TO BE CONNECTED. SPACE, 2,000 SQUARE  
FEET. AMOUNT, \$2,000.

Maps of farms and Station experiment plats—showing divisions, drainage, crops.

Photographs of buildings, as barns, Station warehouse, veterinary building, illustrating clinic, with plans of interiors.

Photographs of farm animals, illustrating breeds and development at different ages.

Samples of soils, in glass faced boxes, showing soils in natural condition as nearly as possible.

Samples of farm and horticultural products: species and varieties of grains, grasses, clovers, forage and root crops: fruits and vegetables. Grains to be shown in stalk and as threshed. Perishable products, as grapes, by wax or plaster casts.

Woods in variety, and illustrating growth at different ages, from forestry plantation and University collections.

Chemical analyses of grains, grasses, fruits, vegetables, milk, soils, etc., showing composition by charts, and by representation of the actual and comparative quantity of the different elements in a given quantity of the substance analyzed. Thus, show a cubic foot of soil and, alongside, the quantity of sand, clay, lime, iron, vegetable matter contained in it. Show a quart of corn and the quantity of starch, sugar, oil, water, ash, etc., composing it. These to be in glass jars.

Charts showing results of experiments on growth of plants, in feeding and dairying. Thus, the growth of corn during each week of the season, with percentage of water and solid matter at each period. The quantity of milk and the butter fat it contains given by cows of different breeds under like conditions and as influenced by feed, etc.

Instructors' desks—showing text books, etc.

Illustrative apparatus used by instructors in agriculture, horticulture, and veterinary science.

## COLLEGE OF ENGINEERING. 5,000 SQUARE FEET AND \$5,350.

## FRESHMAN DRAWING. 100 SQUARE FEET AND \$100.

<i>Projection Drawing—</i>	
Binding and printing for 5 full sets of drawings, 5 vols.....	\$15 00
Binding and printing for one general collection of drawing, 1 vol.....	5 00
Frames, glass, etc., for display of drawings on wall, 5 frames.....	15 00
<i>Descriptive Geometry and Lettering—</i>	
Binding and printing 5 sets of drawings and problems, 5 vols.....	15 00
Binding and printing for one general collection of drawings and problems.	5 00
Frames, glass, etc., for display of drawings on wall, 4 frames.....	12 00
<i>Advanced Descriptive Geometry—</i>	
Binding and printing for 5 full sets of problems, 5 vols.....	15 00
Binding and printing for one general collection of problems, 1 vol.....	5 00
Frames, glass, etc., for display of problems on wall, 4 frames.....	12 00

## PURE MATHEMATICS, \$50. APPLIED MATHEMATICS, 200 SQUARE FEET AND \$200.

Boxing and packing 6 instruments .....	\$5 00
Expense of tests of strength of structural material (cast iron, wrought iron, steel, aluminum, wood, etc).....	100 00
Tests and experiments in hydraulics.....	40 00
Text-books, photographs of apparatus, examination papers, and frames for drawings .....	60 00

## MECHANICAL ENGINEERING. 1,200 SQUARE FEET AND \$1,200.

<i>Exhibit of Students' Work—</i>	
Examples of students' work in pattern-making, casting and forging.....	\$30 00
Students' metal work, machine drawing and machines, tools, and special devices, made by students in second year of course .....	100 00
Drawings of mechanism, third year.....	50 00
Machine drawings, estimate drawings and thesis work (drawings and experimental appliances), fourth year.....	75 00
<i>Exhibit of Appliances—</i>	
Work bench with pattern maker's tools; fillets and fillet making device; set of blacksmith's tools; set of steel specimens colored to show range of color in tempering; moulding sands and facings; cupola sands and clays; core materials, set of tools and flasks; model of a cupola (first year work).....	275 00
Specimens of standard calipers, drills, reamers, mandrels, etc., used in machine construction; one milling machine; one grinding machine; one lathe—all to be placed in running order, and operated by one or more persons during the exhibition, on specimens of fine work, as tool-making, such as will be given to students in the metal working course.	
Set of special tools showing the tendency in modern practice to dispense with the expensive forging process, as well as greatly increasing the efficiency of such tools. Second year work.....	675 00
Models used in teaching mechanism (third year work); indicators, dynamometers, etc., used in steam engineering practice (fourth year); photographs, etc .....	175 00

## CIVIL AND MUNICIPAL ENGINEERING. 1,000 SQUARE FEET AND \$1,000.

Boxing and packing 24 field and laboratory instruments.....	\$50 00
Making models as follows: 10 for railroad engineering; 5 for streets; 6 for geodesy; 5 for sewers; 3 for water supply.....	200 00
Preparing specimens, making tests, and presenting the results, three series, as follows:	
Masonry construction.....	75 00
Sewerage.....	75 00
Water supply.....	50 00
Binding 12 volumes of examination papers.....	48 00
Purchase of 30 volumes of text-books .....	90 00
Binding 21 volumes of drawings.....	84 00
Photographs of appliances, and of field classes (28).....	56 00
Seventy-two frames, 30x32, for drawing.....	180 00
Copying sample thesis.....	100 00

## ARCHITECTURE. 1,200 SQUARE FEET AND \$1,250.

45 specimens students' work in shop practice (first and second year), mounted on 12x16 boards, moulded, printed directions and drawings.....	\$90 00
Repairs on roof and stair models, students' work.....	25 00
5 models of structures, students' work, shop practice, (third year). ....	100 00
Model of construction of drill hall roof. ....	150 00
100 bound students' drawings and designs, 20x28 .....	250 00
10 bound volumes examination papers .....	50 00
12 bound volumes text-books and blue prints. ....	50 00
4 bound volumes, copies of students' tracings, history of architecture.....	20 00
4 bound portfolios, tracings of students' drawings and designs 14x20.....	32 00
5 bound portfolios, tracings of students' drawings and designs, 20x28.....	50 00
1 bound volume, catalogue and description of architectural cabinet.....	10 00
12 photographs of architectural rooms, shops, etc., in album .....	25 00
1 general chart, history of architecture, 4x10 p .....	50 00
10 charts of specially important styles, history of architecture, 4x6 p.....	150 00
10 maps of location of important styles, history of architecture, 4x6 p.....	200 00

## ELECTRICAL ENGINEERING AND PHYSICS. 800 SQUARE FEET AND \$1,000.

*Electrical Engineering—*

(1) Dynamo, to be made from student drawings and competition, and, as far as possible, by student work. ....	\$150 00
(2) Drawings for the above dynamo, bound.....	10 00
(3) One H. P. electric motor made from student drawings and by student work. ....	100 00
(4) Drawings for motor, bound .....	10 00
(5) One or more typical experiments as performed by students in the laboratory.....	100 00
(6) Views in electrical laboratory (photographic enlargements).....	25 00
(7) Bound copies of notes and reports on experiments .....	20 00
(8) Chart showing course (graphically). ....	5 00
(9) Some piece or pieces of apparatus designed for and used in an original investigation—probably thesis work.....	75 00
(10) Work tables for experiment.....	10 00

*Physics—*

(1) Tables and apparatus illustrating the nature of the work done in the physical laboratory .....	300 00
(2) Views showing a complete set of the laboratory experiments, interior of laboratory, etc. ....	35 00
(3) Bound copies of instructions for performing experiments, and reports of work done .....	15 00
(4) Some piece or pieces of apparatus designed for and used in advanced work—probably thesis work.....	100 00
(5) Miscellaneous .....	50 00

## RECAPITULATION.

	Space.	Funds.
Freshman drawing .....	100 sq. ft.	\$100
Pure mathematics }	200 "	50
Applied mathematics }		
Mechanical engineering.....	1,200 "	1,250
Civil engineering.....	1,000 "	1,000
Architecture.....	1,200 "	1,250
Electrical engineering and physics.....	800 "	1,000
Mining engineering. ....	500 "	500
Total .....	±5,000 sq. ft.	*\$5,350

\* Exclusive of cost of cases, screens, etc.

† Exclusive of main passage ways.

COLLEGE OF NATURAL SCIENCE. 3,350 SQUARE FEET AND \$3,050.

COURSE IN NATURAL HISTORY.

Students' laboratory equipment for botany, zoölogy, and lithology, seven tables, each 2x4½.

Students' equipment for bacteriology, one table, 2½x4.

Instructor's laboratory equipment, zoölogy, one table, 4x4.

Laboratory supplies, one case, 6x1.

Two cases or recesses for charts and plates in zoölogy and geology, each 10x7.

Students' equipment for laboratory entomology, two tables, each 4x8.

Reference collection of insects, two cases, each 2x12.

Set of photographs of students' laboratories; set of students' guides to laboratory work; set of reference books, laboratories of botany, zoölogy, and entomology; selection of students' thesis to be printed; two cases, each 3x6.

Set of dissections by students, one case, 3x6.

Set of microscope slides, illustrating students' work, with photographs of same, two table cases, each 4x8.

Set of microscope and lantern slides of histology, one table-case, 2x4.

Examples of students' and instructor's taxidermy.

Examples of prepared specimens used to illustrate zoölogical course, one case, 6x8.

Set of wax and glass models to illustrate zoölogical course, one case, 6x8.

Selections from herbarium, one table-case, 2x8, with wall space above, 4½x8.

Case for transparencies, 2x12.

Human manikin, skeleton, etc., one case, 3x4.

Case for rocks and slides of rock sections, 3x6.

Selections from collections in natural history museum, 1,000 square feet.

Total space for above exhibit, including passageway between cases, but not main aisles, 2,600 square feet.

Estimated expense of preparation of exhibit, not including cases or transportation, \$1,600.

COURSE IN CHEMISTRY.

Set of apparatus and reagents illustrating the first year's work of the student in general experimental chemistry and quantitative analysis.

Desk for quantitative analytical work showing methods for precise measurements of weight and volume and including complete set of apparatus and reagents used in the work.

Desk with complete outfits as used by the student in conducting the work of organic analysis and organic synthesis.

Table fitted up for gas analysis, showing both eudiometric and absorption methods.

One sample outfit, as used in assaying ores, illustrating both dry and wet processes, and also electrolytic separations and depositions of the metals.

Table with apparatus used in lecture room demonstrations and including facilities for investigations in thermo-chemistry.

Printing and mounting of reports, plates, etc., and preparation of photographs of laboratories, showing also internal arrangements.

Collection of samples of inorganic chemicals and products as used in instruction.

Collection of inorganic chemicals prepared by students in course of laboratory work.

Collection of samples of organic chemicals, colors, medicinal principles, etc.

Collection of organic preparations made by students in course in organic chemistry.

Shelves for collections: Space 5 feet high, above table, and 45 feet long.

Two desks, each  $4\frac{1}{2} \times 15$ .

Tables for general apparatus.

Phamphlets describing facilities and arrangements, and explaining their application to and their use in the methods of instruction followed.

Space required for course in chemistry, 750 square feet. Funds, \$1,450.

Total for college of Natural Science, 3,350 square feet and \$3,050.

COLLEGE OF LITERATURE AND SCIENCE. 300 SQUARE FEET AND \$600.

The college proposes to make an exhibit of about 100 volumes of examination papers, essays, orations, and theses; also of charts, of note books, etc.. all to show the method of instruction and course of study; and, to some extent, the text books and other apparatus of instruction.

100 volumes at \$2 to \$4, about.....	\$300
Charts, note books, etc.....	200
Text books (where needed), and other apparatus, about.....	100

ART DEPARTMENT. 600 SQUARE FEET AND \$300.

50 frames, $3\frac{1}{2} \times 2\frac{1}{2}$ , about \$5 each.....	\$250
10 collections of class work, book form, at \$5.....	50

RECAPITULATION.

	Space.	Funds.
General exhibit .....	50 sq. ft.	\$1,100
College of Agriculture .....	2,000 "	2,000
College of Engineering .....	5,000 "	5,350
College of Natural Science .....	3,350 "	3,050
College of Literature and Science.....	300 "	600
Art Department.....	600 "	300
Total (excluding cases) .....	11,300 sq. ft.	\$12,400

This outline has been read to the state commissioners, from whom it received hearty approval, so far as they felt themselves at the time authorized to act. Information has since been received that something like the money and space called for might be expected, though actual assignments have not yet been made. Notification from the chairman of the committee on educational exhibits, Mr. E. E. Chester, has been received that expenditures, not for the present aggregating over \$1,000, may be made now. This work cannot have too early or too earnest attention. Shall the chiefs of the several departments be authorized to move in the matter?

Pro'essor Rolfe has been employed by the State Board of Commissioners to prepare for the World's Fair a topographical relief map of Illinois, and,

upon authority of your Executive Committee, has accepted the proposition and entered upon the work. He is to receive a certain monthly compensation, and asks that this be made known to you for such action as you may deem proper.

I present also here a communication from Professor Morrow, accompanied by a letter from President Atherton of Pennsylvania State College, with regard to a collective exhibit by land grant colleges at the World's Columbian Exposition:

UNIVERSITY OF ILLINOIS, December 8, 1891.

*Dr T. J. Burrill, Acting Regent,*

DEAR SIR: As I have the honor to be a member of each of the two committees to which President Atherton refers in the accompanying letter, and thus have had the opportunity to become somewhat well informed concerning the plans for the proposed collective exhibit of colleges and experiment stations in the Agricultural Building at the Exposition in 1893, I take the liberty of expressing the wish that the Board of Trustees may give its approval to both proposals.

The chief exhibits from this University and its Experiment Station must be in the state building. I believe, however, we may without injury to this state exhibit contribute something to the collective exhibits and that these exhibits will do us good in many ways. Among others helping to call attention to our separate exhibits, which I think we may expect to be the most extended and complete of any made by an institution of like character in the country.

Chief Buchanan, of the Agricultural Department of the Exposition, and Assistant Secretary Willis of the National Department of Agriculture, are especially interested in these collective exhibits, and will do all in their power to make them attractive and useful.

I do not think it necessary at this time to make any specific statement as to what we may be able to furnish, but feel confident that an expression of interest and approval would be helpful; more especially because we are in so fortunate a position as to a separate exhibit.

Yours respectfully,

G. E. MORROW.

THE PENNSYLVANIA STATE COLLEGE, November 7, 1891.

DEAR SIR: At the last meeting of the Association of Agricultural Colleges and Experiment Stations, provision was made for the appointment of a committee representing the colleges, but to act in co-operation with the committee already appointed for the Experiment Stations, for the purpose of arranging and carrying out a plan for securing a proper exhibit of the work of these colleges at the Columbian Exposition at Chicago, in 1893.

The two committees have recently held a joint session in Chicago, where they conferred with the Chief of the Department of Agriculture, the Chief of the Department of Liberal Arts (which includes Education), and the Director General.

After a full and frank interchange of views a plan was formulated in outline which met the approval of all parties, and was subsequently affirmed at a joint meeting of the two committees, with instructions to communicate it to all institutions interested, and to invite their prompt and hearty acceptance and co-operation.

The two main features of the plan are as follows:

1. That there shall be in the Agricultural building, in connection with the Experiment Stations, and, as far as possible, integrally united with them, an exhibit of a typical institution founded on national grants and organized and supported by state action. This does not mean that any single institution will be adopted as fully representing the assumed type,

but that every branch of work which has found a place in so many of these institutions as to be properly considered a distinctive feature of them or of their class, shall be represented in the proposed exhibit, and that, as far as possible, the exhibit shall show the institution actually engaged in some leading branches of its work. It was thought that such an exhibit would be not only the best method of showing what these institutions are doing for agricultural education, but of exhibiting their various associated lines of work, and would furnish the best possible illustrations of what the government is doing to assist the youth of the industrial classes in preparing themselves for "the several pursuits and professions in life."

2. That each institution should then be left free to make its own exhibit in its own way, in co-operation with its own state authorities or with the national authorities, as might be determined in each case respectively.

The first feature of the plan is, accordingly, the only one with which this committee has to deal, and it is necessary to fix the ground plan at the earliest possible day in order to secure the proper amount of space—neither too much nor too little.

There has not yet been time to give much consideration to details, but it is proposed that the exhibit shall include the essentials of

A biological laboratory,

A botanical and horticultural laboratory,

A chemical laboratory, general and agricultural,

An engineering laboratory, including civil, electrical and mechanical engineering,

A physical laboratory,

A work shop, showing the elementary operations in wood working and iron working, and

A general department showing the range of work in language, literature, philosophy, etc.

In carrying out this plan it is not thought necessary to install a perfectly complete laboratory in every one of these departments. If otherwise feasible, it would be impossible to secure the requisite amount of space; but we hope to present all of them in due proportion.

To that end, it will be necessary to call upon separate institutions for special contributions of apparatus or equipment, but not in any case to such an extent as to impair the separate exhibit of that institution in its own place. Besides the exhibit of apparatus and equipment for doing work, it is proposed to exhibit as fully as possible the actual products of work, and it is hoped that many institutions will be able to furnish, as their contributions to the exhibit, specimens of working machinery or apparatus made by their own students.

In addition to all this, an effort will be made to present in tabulated form the history and the aggregated results of the work of these institutions.

The committee will be glad to receive at once any suggestions respecting either the general plan of the exhibit above outlined, or any point of detail, and all such suggestions will receive due consideration. It would be especially gratifying if you would be kind enough to indicate the extent to which your institution may be relied upon for aid in making the proposed exhibit.

Yours very truly,

GEO. W. ATHERTON.

## SPREADING INFORMATION CONCERNING THE UNIVERSITY.

At the instance of the committee of the Faculty on advertisement and publications, the Faculty adopted the following outline of methods for securing a fuller recognition abroad of the merits and value of the University:

1. The preparation of circulars descriptive of the University and of the colleges and special departments, and their systematic distribution by all connected with the University.
2. Correspondence and information.
  - (a) The writing of notes and articles for professional and special journals by members of the Faculty.
  - (b) A press bureau to furnish information concerning the University and its various departments to students who write to home papers and to correspondents of the general press.
3. Attendance upon and participation in meetings and conventions of professional, general educational, scientific, and literary associations.
4. Interest in public questions.
5. Lithographs of buildings and appliances to be sent to public schools and other appropriate places.
6. Publications and bulletins.
7. Publishing of roll of students with home and local address.
8. Advertising the University through the use of some of the facilities of the technical departments without charge, a fund to be provided therefor.

Much of this work can be done without expense, save of the time and energy of those who gladly offer to help in every feasible way to make the University known throughout the length and breadth of the land. But money also is required.

Items one and five may be attended to at once, if it is thought desirable to do so. Fifty dollars for the first and \$100 for the other is deemed a reasonable estimate of the amount of money needed for the contemplated work.

As to item three, difficulties are presented. It is certainly very desirable that members of the Faculty should attend many public meetings, and some of our men have often done this at an average expense to themselves of something like \$100 per year. Sometimes this is distinctively for their own professional benefit; but if so, it is likewise beneficial to the University. Sometimes the University only derives good from the visits. It does seem appropriate that then it should bear at least some of the expense. But such a practice could be easily criticised, and would undoubtedly be open to abuse. Does something like the following, as a general rule, seem appropriate to you? Make an assignment of some definite sum for the purpose; from this fund pay one-half the traveling expenses; leave the decision as to what particular trip-expenses shall be thus paid to the executive committee of the Faculty. This is not free from objections, but may be considered a contribution towards the solution of a problem not new to you.

The sixth item is an important one, which I hope may receive your approval. The agricultural and horticultural departments now have the advantage of the Experiment Station, in the bulletins of which ascertained knowledge may appear. Other matter has sometimes been published in the volumes containing the transactions of the Trustees. This, however, does not properly meet the felt want. It would certainly be desirable in the way of advertisement if papers of high grade should be issued as bulletins of the University, or of its various departments. These should be in part for gratuitous distribution, but also put on sale in some regular way. It is not probable that there would be many of them, and the cost



could not be great. All that can be asked now is to encourage professors to embody the results of their researches in suitable shape for such use, and then to provide for the publication.

The eighth item raises the question of doing certain kinds of work gratuitously for the public, and advertising the willingness to do so. Just now our chemists have suggested the free examination of the potable waters of the state—a thing very often called for now, and sure to be much more frequently sought if people are informed that such work will be done here. In many cases it is likely that the work could be done by the regular employés, but special assistants would sometimes be necessary. Only such lines of work should be attempted as will attract public attention, and, if possible, such as will also bring together items of information which, when collated and combined, will make valuable contributions to knowledge. The water analysis is a good example. Probably one thing at a time would answer the purposes indicated—at all events, one would be enough to start with.

#### PREPARATORY SCHOOLS.

The committee on preparatory schools, of which Professor Baker is chairman, has also been active in its own province. During the term six high schools have been examined and placed, with or without conditions, on our accredited list. Two more will be visited this week. Considerable correspondence has been had with others, which will probably lead, in some cases, to the same result. Graduates from accredited schools may enter the University without examination. This is more and more recognized as an honor to the schools, as well as a convenience to the pupils. There are now 64 such accredited high schools—the best in the state. At the outset the intention was to require the schools to pay the expenses of examination. But this rule gradually fell into disuse, and the University has paid the usually small amounts from the incidental account. It seems better that these expenses should be borne by the University in some regular way. The examiner feels freer in case of delicate decisions: it permits the University to take the initiative when desirable, instead of waiting for invitations to come spontaneously from indifferent officials.

It is also asked that a special circular be provided to send to students in accredited schools, and that a blank be prepared for the principal's use in certifying to the attainments of candidates for admission to the University. I wish also to invite attention to the certificate intended for framing and to be hung upon the walls of accredited schools. It seems to me a new one should be provided.

#### ELECTRIC SIGNAL CLOCK.

By request of the Faculty your Executive Committee, at a recent meeting, considered the question of purchasing an electric signal clock for the automatic ringing of the daily program bells in the University. Definite knowledge upon the subject was lacking, and the whole matter was left over for this meeting of the Board. I now present a proposal from the manufacturers and further estimates of cost, and recommend an assignment of \$180 for the purpose. The times for beginning and closing all University exercises are now designated by electric bells rung by the fireman in the boiler house. This has never been satisfactory. In spite of as good attention as a workman can give, there are far too many irregularities, some of which are exceedingly annoying and disturbing to the desired orderly succession of exercises. Nothing but an automatic system will be sufficiently trustworthy for these signals, and in the long run this must be the least expensive to operate.

#### ELECTRIC LIGHTING.

The time seems to have arrived when electric lights should be substituted for gas in all rooms in which lights are needed. At your last meet-

ing the question of providing a steam engine for the physical laboratory was discussed and referred to Professor Stratton for report at this time. The proposals for this are herewith submitted. If this engine is procured and has sufficient capacity for the electric lights needed, as well as for the physical experiments, a decidedly desirable end might be attained with a very small expenditure of money. It is possible to use the current from the street car lines, and very favorable terms can be made with the company; but it seems impossible to secure in this way a light sufficiently steady for our purposes. I therefore respectfully suggest that this matter be considered in connection with that of a new engine and boiler. But as the latter has not yet been considered, no further recommendations are now made. A request from the Philomathean Society is, however, presented.

## FUEL GAS.

In this connection it seems to me desirable that there should be an investigation of the question of putting in an apparatus for the manufacture of fuel gas for the laboratories.

## APPROPRIATIONS.

I herewith submit for your information a number of communications from the various departments of instruction.

The following requests for money have been taken from these papers. The various items have been fully discussed and are all in the line of substantial and important improvements:

Library .....		\$2,000 00
Architectural Department—		
Architect's level and steel tape.....	\$82 00	
Wide angle lens for preparing lantern slides.....	75 00	\$157 00
Civil Engineering Department—		
Repairs of field instruments.....	\$10 00	
Three double drawing tables.....	10 00	
Exchanges of tripods for plane tables.....	15 00	
One chronometer, about.....	125 00	\$160 00
Astronomical Observatory—		
For students' use—		
Astronomical transit .....	\$990 00	
Alt-azimuth instrument .....	750 00	
Addition to observatory .....	300 00	\$2,040 00
For general use—		
Equatorial telescope .....	\$2,000 00	
Chronograph.....	350 00	
Astronomical clock.....	450 00	2,800 00
		\$4,840 00
Zoölogical Department—		
Purchase of a collection of insects.....		\$875 00
Department of Rhetoric and Oratory—		
Papier mache casts of vocal organs.....	\$60 00	
Spirometer.....	15 00	\$75 00
Chemical Department—		
Thermo-chemistry apparatus.....	\$500 00	
Window guards for supply room.....	60 00	
Fittings in photograph room .....	60 00	\$620 00
The department also asks leave to order supplies for next year to the amount of.....		\$1,000 00
English Literature Department—		
Framed portraits and a table.....		\$100 00

<b>Electrical Engineering Department—</b>		
Steam engine and setting.....	\$795 00	
Boiler and setting.....	850 00	
Connecting dynamos.....	250 00	
Tools and materials.....	100 00	
Cases and tables.....	75 00	
Photometer.....	275 00	
		<b>\$2,345 00</b>
<b>Physical Laboratory—</b>		
Supplies.....		<b>\$200 00</b>
Leave to order supplies for next year to the amount of.....		<b>500 00</b>
<b>Department of Industrial Art and Drawing—</b>		
Etching press.....	\$17 00	
Models.....	25 00	
Casts.....	20 00	
Lantern slides.....	90 00	
Casting outfit.....	5 00	
Frames for plates.....	15 00	
		<b>\$172 00</b>
<b>Latin Department—</b>		
Illustrative pictures and views.....	\$125 00	
Maps.....	25 00	
		<b>\$150 00</b>
<b>Mining Engineering Department—</b>		
Drawers, trays and labels for minerals.....		<b>\$50 00</b>
<b>Mechanical Shops—</b>		
Large planer.....	\$575 00	
Large lathe.....	550 00	
Four 14-inch lathes.....	900 00	
Twist drill grinder.....	50 00	
Chucks, etc.....	150 00	
Foundry supplies.....	100 00	
Blacksmith shop supplies.....	100 00	
		<b>\$2,425 00</b>

The annual report of the farm, as made by Professor Morrow, is as herewith presented:

## FARM REPORT.

UNIVERSITY OF ILLINOIS, December 7, 1891.

*Dr. T. J. Burrill, Acting Regent,*

SIR: I present the following state of the financial operations of the University farms, for the year ending December 1, 1891:

Receipts for the year.....	\$4,117 99	
Expenditures.....	2,452 59	
Balance to credit of farms.....		<b>\$1,665 40</b>
Inventory saleable property, December 1, 1890.....	\$13,876 00	
Inventory saleable property, December 1, 1891.....	13,165 00	
Reduction during year.....		<b>711 00</b>
Balance in favor of farms for year.....		<b>\$954 40</b>

## FINANCIAL STATEMENT FOR 1891.

<i>Receipts.</i>			
Live stock—			
Cattle .....	\$726 91		
Horses .....	565 00		
Hogs .....	541 86		
Dairy products .....	97 49		
Poultry .....	14 93		
		\$1,946 19	
Field products—			
Hay and straw .....	\$785 30		
Wheat .....	321 60		
Corn .....	277 19		
Oats .....	180 98		
Seeds .....	37 65		
Pasture .....	29 50		
		1,632 22	
Rents .....		395 00	
Work .....		131 84	
Miscellaneous .....		12 74	
Total receipts .....		\$4,117 99	
<i>Expenses.</i>			
Labor .....		\$1,676 02	
Machinery and repairs .....		176 04	
Live stock—			
Horses .....	\$120 00		
Cattle .....	90 00		
Hogs .....	52 23		
		262 23	
Feed .....		80 40	
Dairy .....		26 22	
Lumber .....		67 37	
Hardware .....		32 41	
Harness .....		22 10	
Seeds .....		29 78	
Tile .....		34 37	
Miscellaneous .....		45 65	
Total expense .....		\$2,452 59	
Balance .....		1,665 40	
Total expense and balance .....		\$4,117 99	
<i>Inventory, December 1, 1891.</i>			
Live stock—			
Horses, 10 @ \$100 00 .....	\$1,000 00		
Colts, 14 @ 100 00 .....	1,400 00		
Pony .....	35 00		
		\$2,435 00	
Pure bred cattle—			
Shorthorns .....	65		
Herefords .....	12		
Holstein-Friesians .....	11		
Jerseys .....	4		
Grade cattle and steers .....	92, @ \$75 00.....	\$6,900 00	
	22, @ 20 00.....	440 00	
		7,340 00	
Hogs, 86 @ \$5.00 .....		430 00	
Poultry .....		10 00	
Total live stock .....		\$10,215 00	
Farm products—			
Hay, 60 tons @ \$10.00 .....	\$600 00		
Corn, 2,500 bushels @ 40 cents .....	1,000 00		
Oats, 500 bushels @ 30 cents .....	150 00		
Ensilage, fodder, straw, etc .....	200 00		
		1,950 00	
Implements and machinery .....		1,000 00	
Total inventory .....		\$13,165 00	

As is well known, the pure-bred cattle industry has been greatly depressed for several years. A year ago it was confidently believed by many that an advance in prices was certain during the year. Prices for good beef cattle have somewhat advanced, but breeding stock have been almost unsalable. The valuation of the cattle on the farms is low, much lower than such cattle were worth a few years since, but it is above what they would be worth for beef. It is hoped there may be some advance in the next four months. The few sales that have been made have been at very low prices. Horses have also fallen off in price the last year.

As a whole, the live stock on the farms is more valuable, intrinsically, than at any former time, and could be sold for more than it has cost, even with the present depressed prices.

Respectfully submitted,

G. E. MORROW, *Professor of Agriculture.*

I present, also, the quarterly report of the Board of Direction of the Agricultural Experiment Station:

#### AGRICULTURAL EXPERIMENT STATION.

*To the Regent of the University.*

SIR: The Board of Direction of the Agricultural Experiment Station of the University of Illinois, presents these papers:

Paper A is a list of warrants issued, numbers 20 and 34 to 111, inclusive, with the list of vouchers therefor to be audited.

Paper B is a statement of the Station expenditures for the quarter ending September 30, 1891.

Paper C is a statement of the appropriations, expenditures and balances for the quarter ending December 31, 1891.

Paper D is a statement of appropriations asked for the purpose of carrying on the work of the Station for the current quarter, and for the quarter ending March 31, 1892.

#### PAPER B—STATEMENT OF EXPENDITURES FOR QUARTER ENDING SEPTEMBER 30, 1891.

Board expense.....	\$14 06
Books and publications.....	50 00
Botanical apparatus.....	4 00
Bulletins.....	149 78
Chemical apparatus.....	49 95
Fertilizers.....	25
Fuel and lights.....	31 20
Incidentals.....	1 25
Printing, stationery and postage.....	20 10
Salaries.....	1,737 50
Seeds and trees.....	25 22
Tools and supplies.....	23 93
Wages and teams.....	981 35
<i>Summary—</i>	
Dairying experiment.....	48 07
Corn and wheat experiments.....	32 80
Total .....	\$3,169 46

PAPER C—STATEMENT OF APPROPRIATIONS, EXPENDITURES, AND BALANCES FOR QUARTER  
ENDING DECEMBER 31, 1891.

	Appropriated	Expended.	Balance.
Buildings and repairs.....	\$25 00		\$25 00
Board expense.....	40 00		40 00
Books and periodicals.....	250 00		250 00
Botanical apparatus.....	10 00		10 00
Bulletins.....	350 00	\$46 00	304 00
Chemical apparatus.....	50 00	21 50	28 50
Fuel and lights.....	100 00		100 00
Incidentals.....	25 00		25 00
Printing, stationery, and postage.....	25 00		25 00
Salaries.....	1,800 00	1,133 34	666 66
Seeds and trees.....	20 00	33 70	
Tools and supplies.....	50 00		50 00
Wages and teams.....	850 00	441 13	408 87
<i>Sundry experiments—</i>			
Dairying experiments.....	100 00	15 03	84 97
Wheat and other experiments.....	25 00		25 00
Drainage.....	25 00		25 00
Exhibit at State Fair.....	60 00	76 35	
Total.....	\$3,805 00	\$1,767 05	\$2,068 00

PAPER D—ESTIMATES.

<i>Quarter Ending December 31, 1891.</i>	
Meteorological apparatus.....	\$8 55
Seeds and trees.....	20 00
Exhibit at Exposition.....	20 00
	\$48 55
<i>Quarter Ending March 31, 1892.</i>	
Buildings and repairs.....	25 00
Board expense.....	40 00
Books and publications.....	50 00
Botanical apparatus.....	10 00
Bulletins.....	750 00
Chemical apparatus.....	50 00
Fuel and lights.....	100 00
Incidentals.....	25 00
Printing, stationery, and postage.....	25 00
Salaries.....	1,800 00
Seeds and trees.....	100 00
Tools and supplies.....	25 00
Wages and teams.....	800 00
<i>Sundry—</i>	
Dairying experiments.....	25 00
Corn and wheat experiments.....	25 00
Total.....	\$3,850 00

Authority is also asked to get bids for chemical and botanical apparatus and supplies, to be imported, and to contract for the same upon a satisfactory bid—the amount not to exceed for—

Chemical laboratory.....	\$225 00
Botanical laboratory.....	50 00
Total.....	\$275 00

The work of the Station will be continued along the lines already laid down, but no new work will be undertaken at this time.

Respectfully submitted,

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

The Dean of the College of Engineering makes two requests:

UNIVERSITY OF ILLINOIS, URBANA, ILL., December 8, 1891.

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

GENTLEMEN: The faculty of the College of Engineering respectfully requests that the Board of Trustees appropriate the sum of \$500 to be expended in obtaining technical lectures from eminent specialists in engineering and architecture, on topics related to the course of study in the College, but in addition to the regular instruction imparted by the professors in the College. It appears probable that the cost of a single lecture and expenses of lecturer would average about \$50 each, unless several lectures from each person are delivered during his stay at the University. The effect of these lectures will be excellent; they will further enable advanced students to make valuable professional acquaintances, and we believe that no better means of advertising the University in technical and professional circles can be found.

The faculty of the College of Engineering also requests an appropriation of \$100 in aid of the publication of the *Technograph*, a scientific annual containing technical papers by professors, graduates and undergraduates of the College.

Very respectfully submitted,

N. CLIFFORD RICKER,

*Dean of Engineering College.*

The *Illini* asks an appropriation as follows:

Type—long primer and job.....	\$150 00
One job press.....	150 00
Office fixtures.....	100 00
Total.....	\$400 00

The Young Men's and the Young Women's Christian Associations of the University both ask for more room, and that it may be on the lower floor.

Respectfully submitted,

T. J. BURRILL, *Acting Regent.*

After the reading of this report the Board adjourned to meet at the Doane House, in Champaign, at 8 o'clock p. m.

#### EVENING SESSION.

The Board met at the Doane House, pursuant to adjournment, the same members being present as in the afternoon.

The President stated that it had been brought to his notice that the College of Physicians and Surgeons, of Chicago, would consider a union with this University desirable if it could be effected on terms mutually satisfactory, and that he had taken the liberty to have Dr. Bayard Holmes, of Chicago, invited to attend this meeting of the Board for the purpose of showing the status of the College of Physicians and Surgeons and of suggesting how the two institutions could be affiliated.

Professor Burrill said that he would call attention to another matter also looking to extending the work of the University along a new line, and that was a movement among the students urging the establishment of a law school.

It was decided to ask Dr. Holmes to address the Board later in the evening.

The Committee on Instruction made the following report:

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

GENTLEMEN: Your Committee on Instruction, at a meeting held this morning at 9 o'clock, voted to invite Professor Scribner, of Ames, Ia., to visit the University, and that a sub-committee, consisting of Professor Burrill and Mr. Shawhan, should be authorized, if it thought best so to do, to recommend to the Executive Committee of the Board his employment as Professor of Mechanical Engineering in the University at a salary of \$2,000 per annum. The Committee recommends that if Professor Scribner be not employed, Professor Burrill shall correspond with Professor Coon, of Atlanta, Ga., with a view to employing him for the place at a salary of \$2,500 per annum.

Respectfully submitted,

F. M. MCKAY,	} Committee on Instruction.
G. R. SHAWHAN,	
HENRY RAAB,	

The report was approved on motion of Mr. Graham.

The Committee also reported that it would refer to the Board the selection of a man for the Professorship of Psychology, since it was unable to agree upon a nomination.

Three nominations were then made, but no election being found possible, the matter was referred back to the committee on motion of Mr. Graham with instructions to report a nomination the next day, if it was found practicable so to do.

After listening to Dr. Holmes, the Board adjourned to meet in the University Parlor at 9 o'clock the next morning.

#### SESSION OF WEDNESDAY.

The Board met on Wednesday morning, pursuant to adjournment, the same members being present as on Tuesday, except Mr. Raab.

The Regent's report was then taken up.

On motion of Mr. McKay, the vouchers of the Experiment Station were referred to the Finance Committee.

Also on motion of Mr. McKay, appropriations of Station funds were made according to the estimates presented, and authority was given as asked to contract for chemical and botanical supplies.

Mr. Cobb, for the Farm Committee, stated that he had examined the farm report and had no recommendations to make.

The making an exhibit in connection with other land grant colleges, as proposed by Professor Morrow, was approved on motion of Mr. Funk.

The subject of University Extension was discussed for some time, and then postponed during Professor Burrill's absence.



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

## TREASURER'S REPORT.

JOHN W. BUNN, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

		<i>Dr.</i>		
1891.				
Sept.	8	To balance.....		\$98,825 75
Sept.	26	" am't rec'd from state for specimens for cabinets, 1890.....	\$500 00	
		" amount received from state for State Laboratory of Natural History for publication of bulletins, 1890.....	500 00	
		" amount received from state for biennial report of State Entomologist.....	250 00	
				1,250 00
Sept.	30	" amount received on acc't University students' fees.....	\$3,807 50	
		" " " " preparatory year.....	400 00	
		" " " " rent of Griggs farm.....	320 00	
				4,527 50
Oct.	1	To interest on Montgomery county school bonds.....	\$32 00	
		Sangamon Co. bonds.....	183 37	
				215 37
Oct.	7	To amount received from state on account U. S. act of congress, Aug. 30, 1890, for year ending June 30, 1892.....		17,000 00
Nov.	2	To interest on Sangamon county school bonds.....		84 00
Nov.	23	" " land contract, No. 33, C. Hesse.....	\$28 93	
Nov.	27	" " " " No. 11, P. A. Moore, assignee.....	48 00	
				76 93
Nov.	30	" amount received on acc't buildings and grounds.....	\$18 00	
		" " " " mechanical department.....	50 00	
		" " " " architectural.....	968 63	
		" " " " agricultural.....	931 62	
		" " " " horticultural.....	67 55	
		" " " " military.....	5 60	
		" " " " laboratories.....	2 25	
		" " " " Minnesota lands.....	70 00	
		" " " " University students' fees.....	1,110 00	
		" " " " preparatory year.....	452 00	
		" " " " music fees.....	18 00	
				3,693 65
				\$125,673 20
		<i>Cr.</i>		
1891.				
Nov.	30	By amount paid on account board expense.....	\$175 96	
		" " " " salaries.....	2,525 00	
		" " " " buildings and grounds.....	415 90	
		" " " " fuel and lights.....	422 97	
		" " " " stationery and printing.....	175 62	
		" " " " preparatory year.....	446 48	
		" " " " mechanical department.....	179 13	
		" " " " architectural.....	721 38	
		" " " " agricultural.....	554 84	
		" " " " horticultural.....	67 16	
		" " " " military.....	53 30	
		" " " " laboratories.....	348 03	
		" " " " library and apparatus.....	26 08	
		" " " " incidental expenses.....	114 09	
				\$6,225 94
		By amount paid on account furniture and fixtures.....	\$41 32	
		" " " " water supply.....	100 00	
		" " " " gymnasium.....	4 30	
		" " " " lumber sheds.....	76 51	
		" " " " agricultural convention.....	75 00	
		" " " " Minnesota lands.....	98 83	
		" " " " farm barn.....	11 00	
		" " " " Academy Society.....	31 54	
		" " " " flags.....	51 67	
		" " " " music fees.....	18 00	
		" " " " premium on bonds.....	1,199 00	
				1,707 17

Treasurer's Report—*Concluded.*

		<i>State Appropriations.</i>			
1891.					
Nov.	30	By amount paid on account	buildings and grounds.....	\$715 16	
			apparatus and material....	699 95	
			mechanical & arch'l shops..	175 61	
			books and publications.....	71 71	
			cabinets.....	220 08	
			expenses of instruction....	4,599 90	
			heating Military Hall. ....	3 78	
			farm barn.....	531 30	
			furniture.....	300 13	
			metallurgical laboratory....	456 11	
			State Labora'y of Nat. Hist.	1,685 53	
			natural science building....	4,317 78	
			United States fund.....		\$13,777 04
		Balances—Current funds.....		\$6,656 20	11,445 93
		United States fund.....		24,000 54	
		State appropriations.....		61,860 38	
					92,517 12
					\$125,673 20

Urbana, December 8, 1891.

JOHN W. BUNN, *Treasurer.*

Mr. Morgan reported informally from the Finance Committee that there were funds for the appropriations asked except for one or two large amounts, which might go over.

The treasurer reported as follows in relation to the endowment fund:

SPRINGFIELD, Oct. 1, 1891.

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

GENTLEMEN: I have received \$11,000.00 for Sangamon county 8 per cent. bonds due September 15, 1891, and have bought \$9,000 Pike county 7 per cent. bonds on a 5 per cent. basis, due July 1, 1895.

Yours respectfully,

JOHN W. BUNN, *Treasurer.*

The report was approved.

An appropriation was made from current funds of \$630 to pay the premium on the bonds purchased, and of \$41.30 in payment of taxes on Nebraska lands.

The Business Agent, Professor Shattuck, then read his report:

## BUSINESS AGENT'S REPORT.

UNIVERSITY OF ILLINOIS, Dec. 8, 1891.

*S A. Bullard, Esq., President Board of Trustees, University of Illinois,*

SIR: I have the honor to present herewith the following statements for the quarter ending November 30, 1891.

Paper A is a statement of the current appropriations and expenses including also the expenditure for instruction from the state appropriation, and the United States fund.

Paper B is a showing of the state appropriations, November 30, 1891.

Paper C is the same for the United States fund for the three years ending June 30, 1892.

Paper D is a list of vouchers presented for audit, being 1101 to 1150 of the quarter ending August 31, 1891, and 1 to 325 of the quarter ending November 30, 1891.

Paper E is an estimate of current receipts and expenses for the nine months ending August 31, 1892. In making this estimate I have assumed that the salary list would be the one made up at the June, 1891, meeting of the Board, and that one-half, or \$8,500, of the U. S. fund for the year ending June 30, 1892, would be used for salaries for instruction.

The Board is requested to make an additional appropriation of \$100 for buildings and grounds account. This is made necessary by the extra expenditure caused by putting down the cement walks.

Respectfully submitted,

S. W. SHATTUCK, *Business Agent.*

The vouchers presented were referred to the Finance Committee:

PAPER A—CURRENT APPROPRIATIONS.

September 8 and 21, 1891.	Appropriated.	Receipts also approp'd.	Expended	Balance.
Board expense.....	\$600 00	.....	\$175 96	\$424 04
Salaries for instruction.....	28,870 00	.....	1,169 50	} 16,095 72
"    services.....	3,030 00	.....	4,599 90	
Buildings and grounds.....	800 00	\$18 00	7,004 88	1,674 50
Fuel and lights.....	2,500 00	.....	1,355 50	402 10
Stationery and printing.....	600 00	.....	415 90	2,077 03
Mechanical department.....	200 00	50 00	422 97	424 38
Architectural ..	200 00	968 63	179 13	70 87
Agricultural ..	200 00	931 62	721 38	447 25
Horticultural ..	100 00	67 55	554 84	576 78
Military ..	100 00	5 60	67 16	100 39
Laboratories.....	600 00	2 25	53 30	352 30
Library and apparatus.....	50 00	.....	348 03	254 22
Incidentals .....	349 15	.....	26 08	23 92
<i>Sundries.</i>			114 09	235 06
Furniture and fixtures.....	200 00	.....	41 32	158 68
Water supply.....	200 00	.....	100 00	100 00
Gymnasium .....	100 00	.....	4 30	95 70
Lumber sheds .....	1,000 00	.....	76 51	923 49
Agricultural convention .....	75 00	.....	75 00	.....
Minnesota lands .....	40 00	70 00	98 83	11 17
Farm barn.....	1,000 00	.....	11 00	989 00
Academy Society .....	100 00	.....	31 54	68 46
Flag-staff and flags .....	250 00	.....	51 67	228 33
University fees .....	.....	4,917 50	.....	4,917 50
Preparatory year fees.....	.....	852 00	446 48	405 52
Music fees.....	.....	18 00	18 00	.....
Griggs farm.....	.....	320 00	.....	320 00
Premium on bonds .....	1,199 00	.....	1,199 00	.....
.....	.....	\$8,221 15	\$19,537 89	.....

## PAPER B—STATE APPROPRIATIONS.

	Received.	Expended.	Balance.	Assigned.
Taxes on Minnesota lands .....	\$1,511 24	\$1,511 24	.....	.....
Buildings and grounds .....	2,500 00	2,242 83	\$257 17	\$257 17
Apparatus and material .....	1,500 00	736 95	763 05	78 05
Mechanical and arch'l shops .....	2,000 00	175 61	1,824 39	1,024 39
Books and publications .....	1,000 00	71 71	928 29	928 29
Cabinets .....	500 00	58 50	441 50	441 50
Expenses of instruction .....	20,000 00	4,599 90	15,400 10	15,400 10
Heating Military Hall .....	3,500 00	3 78	3,496 22	3,496 22
Farm barn .....	2,500 00	2,150 07	349 93	349 93
Furniture .....	1,000 00	347 73	652 27	27 27
Natural science building .....	30,000 00	4,317 78	25,682 22	25,682 22
Furniture for same .....	5,000 00	.....	5,000 00	.....
Metallurgical laboratory .....	4,000 00	3,406 54	593 46	43 89
	\$75,011 24	\$19,622 64	\$55,388 60	\$47,729 03
Illinois State Laboratory Natural History ..	9,650 27	3,178 49	6,471 78	1,746 71

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1890.</i>				
Salaries for instruction .....	\$7,500 00	\$7,500 00	.....	.....
Electric laboratory .....	2,500 00	2,500 00	.....	.....
Mechanical .....	1,000 00	593 98	\$406 02	\$406 02
Chemical .....	1,000 00	1,000 00	.....	.....
Civil engineering .....	500 00	500 00	.....	.....
Botany and physiology .....	500 00	475 12	24 88	24 88
Natural history .....	2,000 00	1,059 91	940 09	840 69
	\$15,000 00	\$13,629 01	\$1,370 99	\$1,271 59
<i>Year ending June 30, 1891.</i>				
Salaries for instruction .....	8,000 00	7,004 88	995 12	995 12
Physical laboratory .....	1,175 00	1,175 00	.....	.....
Electric .....	500 00	500 00	.....	.....
Chemical .....	610 00	264 39	345 61	345 61
Architectural department .....	1,430 00	331 83	1,098 17	1,098 17
Mechanical .....	520 00	520 00	.....	.....
Mineralogical and geological laboratories ..	60 00	.....	60 00	60 00
Botanical laboratory .....	50 00	.....	50 00	50 00
College of engineering .....	700 00	.....	700 00	700 00
Civil engineering .....	955 00	497 23	457 77	457 77
Library .....	2,000 00	77 12	1,922 88	1,922 88
	\$16,000 00	\$10,370 45	\$5,629 55	\$5,629 55
<i>Year ending June 30, 1892.</i> .....	17,000 00	.....	17,000 00	8,500 00

## UNIVERSITY EXTENSION.

Upon taking up again the subject of University extension, the Board approved the plan of work presented by the Faculty on motion of Mr. Shawhan. Also on motion of Mr. Shawhan, the Board appropriated \$500 from current funds to be used so far as needed in paying the expenses incident upon the preparation of the lectures.

The committee on cement walk made the following report:

UNIVERSITY OF ILLINOIS, December 7, 1891.

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

GENTLEMEN: The undersigned, to whom was referred the building of cement walks on the University grounds, report that they have had built by the Springfield Cement Walk Co. 387 1-9 square yards of walk at \$1.60 per yard, costing \$619.37, also 164½ running feet of cement curb at the drive ways at 20c per foot, costing \$32.90, making a total of \$652.27.

This is an excess of \$52.27 above the appropriation for the purpose, but your committee thought it for the best interest of the University to have the work proposed completed at once.

Respectfully submitted,

S. W. SHATTUCK, { Committee.  
W. L. PILLSBURY, }

The report of the committee was approved and an appropriation of \$100 was made from current funds to pay the balance on the walk and the expense of the changes made in the grade and the lines of walks.

#### REPORT OF EXECUTIVE COMMITTEE.

The Executive Committee made the following report of its action since the last meeting of the Board:

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

GENTLEMEN: Your Executive Committee begs leave to report that it held a meeting, at which all the members were present, in the University Parlor, Monday, September 21, 1891, at 5 o'clock p. m., and at that time transacted the following business:

The Regent proposed that the testing laboratory be put in charge of the Dean of the College of Engineering, Professor Ricker, and it was so ordered on motion of Mr. Funk.

The Regent was given authority to employ an instructor for one of the preparatory algebra classes.

The Faculty proposed and the Committee approved changing paragraph 1 of the report on military affairs, adopted at the September meeting, to read as follows:

"Every male student shall study military tactics, and shall recite upon the same once a week until he passes two creditable term examinations; and every male student not excused by the Faculty on account of physical disability, or other sufficient cause, shall have military drill twice a week until he obtains six creditable term records. Those selected as officers shall continue recitations during their term of service."

An appropriation of \$500 from the state appropriation for buildings and grounds, and of \$100 from current funds was made on motion of Mr. Cobb for the construction of a walk of artificial stone from Green street, in front of the University, to the University front entrance, along in front of the entrance, and thence northeast to meet the walk from the east gate on the Green street line; also from the east door of the University Hall by the well to the west door of the Chemical Laboratory, the work to be done at once, under the direction of the Business Agent and Secretary.

On motion of Mr. Cobb, appropriations were made as follows for the mechanical shops:

From U. S. fund—

For milling machine.....	\$600
For small tools for iron work.....	100
For tools and cases for wood work.....	125

the money to be expended by the Business Agent, the Regent, and Mr. Anderson.

The employment of Mr. C. B. Clark in the machine shop was authorized.

On motion of Mr. Cobb, Dr. T. D. Wood was appointed professor of physical culture for the remainder of the year, at a salary of \$1,600 a year for time of service.

Professor De Garmo sent in a formal resignation of the professorship of psychology, to take effect September 1st, and this was accepted on motion of Mr. Funk.

Adjourned.

Under date of November 2, 1891, Professor Rolfe was given permission to accept an appointment tendered him by the Illinois State Commission of the World's Columbian Commission, for the preparation of a relief map of the state, and also for work upon the economic geology of the state.

Under date of November 3, 1891, the Executive Committee received from the Regent, Professor Burrill, a communication as follows:

"To make the winter term's work in the junior course in agriculture more useful and attractive, Professor Morrow has suggested, and both the special agricultural and general faculties have recommended, that, in addition to the regular classes in farm management and farm crops, farm animals, and diseases of animals, there should be brief courses of lectures by myself on vegetable physiology; by Professor Forbes, on insect enemies to farm crops, and by Professor Parr, on agricultural chemistry. These lectures will be elementary, familiar and informal: it is believed, useful and attractive.

"It is desired to announce, as promptly and fully as possible, through the press and by circulars, the facts concerning this winter term's work. Experience seems to prove that it is for short courses only that any considerable number of agricultural students can be secured. No additional expense is made necessary, except for the publication of the circulars. The December meeting will be too late. The concurrence of the Executive Committee is asked."

The Committee approved the giving these lectures as proposed.

Respectfully submitted,

S. A. BULLARD, Chairman, } *Executive*  
W. L. PILLSBURY, Clerk, } *Committee.*

On motion of Mr. Graham the acts of the Executive Committee, as detailed in its report, were confirmed.

The Secretary stated that he had notified Dr. Woods of his appointment; but had received word from him that he would decline, as he had decided to accept a similar appointment to Leland Stanford Junior, University.

For the publication, in such manner as should seem desirable, of papers of a high grade, prepared by members of the University Faculty, an appropriation of \$150 was made from current funds, of which not to exceed \$100 may be used in the publication of the *Technograph*—the expenditure to be made by the Committee on Publication.

On motion of Mr. Cobb, it was voted that the expense attendant upon visiting accredited schools, or other schools to see if they may go on the accredited list, be borne by the University.

The matter of lighting the Philomathean Society hall by electricity was postponed.

On motion of Mr. Cobb, there was appropriated

From U. S. fund—

For desks, chemical laboratory and engineering department .....	\$120 00
---	----------

From current funds—

For eight military scholarships for this term.....	\$60 00
--	---------

From state appropriation for apparatus and material—

For one sword .....	\$9 00
For music stands for band .....	12 00
For baritone instrument .....	60 00
Total.....	\$81 00

On motion of Mr. Cobb, \$180 was appropriated from current funds for the purchase of an electrical clock and bells.

From the U. S. fund \$2,000 was appropriated for the library.

From the same fund, on motion of Mr. Shawhan, there was appropriated

For an architect's level and a steel tape.....	\$82 00
For a wide angle lens .....	75 00
Total. ....	\$157 00

Also from the same fund

For apparatus and repairs in the department of civil engineering.....	\$260 00
---	----------

It was voted that the askings for the observatory be deferred for the present.

On motion of Mr. Graham, there was appropriated for Professor Brownlee's use

From current funds—

For papier mache casts of vocal organs .....	\$60 00
For spirometer .....	15 00
Total.....	\$75 00

On motion of Mr. Morgan, the asking of \$500 for apparatus for teaching thermo-chemistry was deferred to the next meeting.

On motion of Mr. Cobb, there was appropriated

From current funds—

For window guards in chemical supply room.....	\$60 00
For photograph room .....	60 00
Total.....	\$120 00

Contracting for chemical supplies and apparatus on a satisfactory bid, to the amount of \$1,000, was authorized on motion of Mr. Cobb.

The matter of the purchase of an entomological collection, as proposed by Professor Forbes, was, on motion of Mr. Cobb, referred to a committee, consisting of the President, Mr. Morgan, and the Regent, with power to act.

On motion of Mr. Cobb, \$150 was appropriated from the U. S. fund for the purchase of framed portraits and a table for the department of English literature.

On motion of Mr. Cobb, appropriations were made

From U. S. fund—

For steam engine and setting .....	\$795 00
For boiler and setting.....	850 00
For connecting dynamos, etc.....	250 00
For tools and materials.....	100 00
For cases and tables .....	75 00
Total.....	\$2,070 00

the money to be expended under the direction of the Committee on Buildings and Grounds and the Business Agent.

On motion of Mr. Morgan, \$200 was appropriated from the same fund for supplies of the physical laboratory.

On motion of Mr. Clemens, leave was given to order supplies for the physical laboratory to the amount of \$500.



On motion of Mr. Cobb, appropriations were made for the art department

From state appropriation for apparatus and material—

For an etching press.....	\$17 00
For models.....	25 00
For casts.....	20 00
For lantern slides.....	90 00
For casting outfit.....	5 00
For frames for plates.....	15 00
Total .....	\$172 00

There was appropriated for use in the Latin department

From state appropriation for apparatus and material—

For illustrative pictures and views.....	\$125 00
For maps.....	25 00
Total .....	\$150 00

For drawers, trays and labels for the Department of Mining Engineering, \$50 was appropriated on motion of Mr. Cobb from the state appropriation for a metallurgical laboratory.

For the machine shops appropriations were made

From the U. S. fund—

For four 14-inch lathes.....	\$900 00
For twist drill grinders.....	50 00
For chucks, etc.....	150 00
For foundry supplies.....	100 00
For blacksmith shop supplies.....	100 00
Total .....	\$1,300 00

On motion of Mr. Cobb, \$50 was appropriated from current funds for such advertising as is proposed by the committee of the Faculty.

Four hundred dollars was appropriated from current funds for the purchase of type, etc., as asked by the Illini, the purchases to be made by the Business Agent.

Five hundred dollars was appropriated from state appropriation for instruction, on motion of Mr. McKay, for technical lectures, the matter to be under the supervision of the Faculty.

The question of advertising in the Chicago Graphic was referred to Mr. Morgan for investigation.

Mr. Morgan reported that to advertise the University by means of neat framed placards, put up one at each county seat, would cost about \$500.

Further consideration of advertising in these two ways was left over to the next meeting.

An appropriation of \$35 from current funds was made to meet the expenses of the flag raising.

REPORT OF LETTING CONTRACT FOR NEW BUILDING.

The joint committee constituted to receive bids and let the contract for the new building made the following report:

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

GENTLEMEN: Your Executive Committee and Committee on Buildings and Grounds, whom, at your meeting of September 8th, you authorized to receive jointly the bids that might be sent in for the erection of the natural science building, and to act thereon, met at 3 o'clock p. m., Monday, September 21, 1891, in Professor Ricker's room in University Hall, in Urbana. Of the Executive Committee, all the members were present, and from the Committee on Buildings and Grounds, Messrs. Bullard and Graham, Mr. McLean being absent.

The Secretary of the Board was made secretary of the meeting.

The several gentlemen who had handed in bids were all present, except Mr. Valentine Jobst.

The bids were then opened and were found to be from L. M. Moore, of Danville; Wm. Schroder & Son, of Peoria; Peter Kinney & Son, of Peoria; Deal & Allen, of Peoria; and Valentine Jobst, of Peoria. There was also a partial bid from Kerr & Bro., of Urbana.

It was found, upon reading and comparing the bids that that of Valentine Jobst was the lowest.

It was as follows:

PEORIA, ILL., September 19, 1891.

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

GENTLEMEN: 1. I propose to furnish all materials and labor, as per amended drawings and specifications, for the natural science building, the cut stone for same to be of Warrensburg or Bedford stone, for the sum of fifty-seven thousand eight hundred and fifty-seven dollars (\$57,857.00).

No. 2. If hard bricks in cement be used for footings of all interior walls, instead of dimension stone, same width, my price will be fifty-seven thousand one hundred and nineteen dollars and fifty cents (\$57,119.50).

No. 3. If external basement walls and footings are also built of hard bricks in cement, instead of stone, then faced with pitch-faced stone from grade-level to water-table, I ask the sum of fifty-five thousand five hundred and ninety-eight dollars and ninety-three cents (\$55,598.93).

No. 4. If all visible external brick walls of building are faced outside with St. Louis pressed bricks, No. 3 color, and colored mortar joints, frieze of cornice unchanged, as well as stone ashler, etc., add the sum of fourteen hundred dollars to bid No. 3. To-wit:

Bid 3 .....	\$55,598 93
Pressed brick and facings, bid 4.....	1,400 00
Total.....	\$56,998 93

Fifty-six thousand nine hundred and ninety-eight dollars and ninety-three cents.

Yours respectfully,

V. JOBST.

The committee then retired to the University Parlor to consider which form of Mr. Jobst's bid should be accepted. After explanations by Professor Ricker, it was voted, on motion of Mr. Cobb, to accept Mr. Jobst's proposal No. 2, with the addition of pressed brick at price named therefor in No. 4; that is, to erect the building according to the amended plans and specifications, except that all interior walls should have footings of hard brick laid in cement, in place of footings of dimension stone, and that all visible external brick walls should be faced with St. Louis pressed

brick, No. 3 color, and colored mortar joints—the price for the whole to be fifty-eight thousand, five hundred and nineteen dollars and fifty cents; and that the President and Secretary of the Board be authorized and instructed to contract with Mr. Jobst for the construction of the building upon these terms, he to furnish a satisfactory bond in the amount of \$20,000.

Taking up, then, the question of choice between Bedford and Warrensburg stone, it was voted, on motion of Mr. Cobb, that Bedford stone be used for the water-table, steps, area copings, and window sills; that for all other stone above the water-table Warrensburg sand stone be used; but, if the contractor should object to furnishing two kinds of stone, that then Bedford stone should be used for all the stone above named.

The grade was fixed at six inches above the top of the ground at the southwest corner of the site chosen. But the architect was given authority to make it higher, not exceeding 12 inches above the ground at point named, if he found it best to do so.

W. L. PILLSBURY;

*Secretary of Joint Committee.*

The action of the joint committee was approved.

The Secretary stated that Mr. Jobst was promptly notified that his bid for the erection of Natural History Hall was accepted, and that on September 25th a contract with Mr. Jobst was duly executed, and that he gave a satisfactory bond of \$20,000 for the fulfillment of the contract.

By a joint resolution of the two houses, the General Assembly in 1873 instructed all boards of trustees having charge of state buildings not to insure them. Consequently in making the contract with Mr. Jobst the usual clause providing for insurance by the owner was stricken out. Mr. Jobst stated that he had not contemplated carrying the insurance himself, but that he would do so if a further sum of \$250 were paid him. The representatives of the Board did not consider that they had authority to agree to make such payment, and the matter is reported to the Board that it may take such action as it deems expedient.

The question of insurance was referred to the Committee on Buildings and Grounds, and the committee was directed to report thereon at the next meeting of the Board.

The Secretary presented the following communication from Mr. Bronson Murray, of New York, and stated that the bronze model referred to had been received:

238 W. 52d St., NEW YORK, November 7, 1891.

*W. L. Pillsbury, Secretary, etc.*

DEAR SIR: I have to-day sent by U. S. Express, to address of the University at Champaign, a bronze model of the French Merino, or "Rambouillet" sheep, executed in 1849 by a French artist of some repute, which I have thought worthy of a place in the agricultural department. In the days, or years rather, in which I pastured sheep on the then wide prairies of your state (40 years since) the "Rambouillet" was eagerly sought as the most profitable type, both west and east.

I am, dear sir, cordially,

BRONSON MURRAY.

I read with interest and thank you for your Reports.

It was ordered, on motion of Mr. Cobb, that the Secretary write Mr. Murray that his valuable gift was gratefully accepted by the University.

The Committee on Buildings and Grounds presented the following report with regard to matters in its charge, and also with regard to heating the drill hall:

#### REPORT ON BUILDINGS AND GROUNDS.

*To the Trustees of the University of Illinois.*

GENTLEMEN: Your Committee on Buildings and Grounds asks leave to submit the following report, incorporating in it the report of Professor Ricker, architect of the new building:

CHAMPAIGN, ILL., December 7, 1891.

*To the Committee on Buildings and Grounds of the Board of Trustees.*

GENTLEMEN: I beg leave to present the following report in regard to the matters placed under my charge:

##### 1. NATURAL SCIENCE BUILDING.

As good solid earth was not reached at the depth fixed by the Committee at the time of letting the contract for the building, for about one-half its perimeter, and as I had no authority to lower the building, I was compelled to have the foundations for external basement walls carried five inches deeper than required by contract, thus increasing the height of these walls by that amount and incurring an extra expense therefor. This extra masonry has been computed to be  $346\frac{1}{2}$  cubic feet of rubble stone work, for which the contractor has agreed to accept 30 cents per cubic foot, amounting to \$103.88. No extra depth or extra cost for internal brick walls.

Mr. Jobst offered to face the external stone basement walls above grade with pitch-faced Bedford stone, with sawed beds, instead of square pitch-faced Essex rubble, specified, at no additional cost to the University, and I accepted his proposition with great pleasure, as it will greatly improve the external appearance of the building. As Bedford stone is stained yellowish by contact with cement mortar, I have permitted the stone walls above grade to be laid in lime instead of cement mortar, which has been used for all internal brick walls, as specified.

In accordance with a request of the Regent, an external door and frame was substituted for a window in the east end of the building, to give direct access to a plant house, which it is proposed to add to the exterior later. This will cause a small extra.

No. 3 color, hydraulic pressed bricks, made at Collinsville, Ill., have been selected for the external pressed brick facing of walls, with pink buff plain and moulded bricks and blocks of the Chicago Anderson Co., for the frieze of the cornice. I have samples of these bricks for examination by the committee, if desired.

Some difficulty was experienced in regard to the quality of the second lot of common bricks shipped here from Bloomington. After the rejection of several car loads, the brick contractor furnished men to sort them at the cars, the soft bricks being sent back to Bloomington, and the hard ones being accepted, when of satisfactory quality. The difficulty appears to have been entirely the fault of the brick makers, as the contractor purchased hard brick by samples, which are in my hands. I do not apprehend any trouble from this source in the future.

The Warrensburg sandstone has probably been one-half cut now and loaded on cars for shipment, so that there can be no delay on account of this stone.

Three estimates have been made for the contractor, and certificates for 90 per cent. of their amounts have been issued, as follows: No. 1, \$86.40; No. 2, \$3,543.78; No. 3, \$5,688.71; total, \$9,318.89. The 10 per cent. retained now amounts to \$1,025.83.

The Peoria Marble Works, which has the sub-contract for stone-work of basement above grade, proposes to donate a suitable corner stone, with such inscription, etc., as may be directed by the Committee. No provision or location for such a corner stone has yet been made, and I request instructions in the matter.

As no superintendent of construction had been selected by the Committee, it was necessary to make a temporary arrangement therefor, when the contractor commenced work on the masonry of the building. With the advice and consent of your Chairman and the Business Agent, I employed Mr. Thomas Kerr, of Urbana, at \$4 per day, to act in that capacity until you should make a different appointment. His work has been very satisfactory, as he is well posted on masonry construction. A certificate for \$60 has been issued to Mr. Kerr for services prior to December 1st.

I know of no trustworthy man in this vicinity, who is available, and whom I should feel justified in recommending for permanent employment, excepting Mr. Parker. He is fully competent in all kinds of work, but his entire time would be required at the building when work is going on there, and it would therefore be necessary to employ one or two more good men at the architectural shops, with Mr. Tierney as assistant foreman and instructor. If the right man can be found, it would probably be best to leave Mr. Parker at the shops.

At the time of signing the contract for the building, the provision in standard form of contract requiring the owner to insure the building, was stricken out, on account of the state law relative to the insurance of public buildings. Mr. Jobst distinctly and firmly declined to be held responsible for loss by fire, unless an additional payment of \$250 was made to him to cover cost of insurance, but signed the contract with the understanding that the matter should be reported to your Committee and the Board of Trustees for such action as might be deemed advisable. As the matter now stands, Mr. Jobst would not probably be legally liable for any loss by fire occurring before completion and acceptance of the building, though he would have been so had no protest been made at the time of signing the contract.

As there was no superintendent during the making of the excavations, I found it necessary to stake out the trenches, set about 200 level and corner stakes, etc., in addition to my other duties. This work required a great deal of time, and thus delayed the completion of the detail drawings for the buildings. But I hope to avoid any serious delay to the work resulting therefrom.

## 2. ARCHITECTURAL LUMBER SHED AND DRY KILN.

As the appropriation for the building was not made until September, and authority for commencing work was but recently given, the construction of the building has been delayed. But the brick walls have been nearly completed, and a week or two of good weather will suffice for finishing the building.

## 3. MACHINES FOR ARCHITECTURAL SHOPS.

The appropriation for new machines was made in June, but no authority for their purchase has ever been given. During the summer I have corresponded with several manufacturers and dealers, and submit the results herewith.

After careful consideration of the bids received, I respectfully recommend that the proposal of the Egan Company, of Cincinnati, be accepted, as I believe this to be best for the interests of the University. The bid is as follows:

No. 5 endless bed surfacer, working 24x10 inches, etc .....	\$460
No. 1 sash and door mortiser, chisels, etc .....	190
Double rip and cross 14-inch saws, iron tables, etc .....	375
Hand planer knife grinder .....	12
Total .....	\$1,037
Thirty per cent. off for cash .....	311
Net cost f. o. b. Cincinnati .....	\$726

This leaves \$274 of the appropriation for freights, cartage, belts, setting up machines, etc.

#### 4. FRONT DOORS OF UNIVERSITY HALL.

In accordance with the directions of your chairman, I have designed new entrance and vestibule doors for University Hall, with glass transoms above, woodwork all of polished quartered oak, and to be set in rebates of present door frames. Double doors, 3x7½ feet each, with large polished plate glass panel. Yale bronze hardware and locks. Single or double swing hinges, as may be preferred. Large lights in transoms to be polished plate; small ones in outer transom to be rolled plate; in inner transom to be cathedral stained glass. Blue prints of the drawings were mailed Saturday to four different firms, with instructions to send in bids so that they might be received to-day. I submit herewith the design for doors for your consideration. I presume that the total cost of the doors, transoms, bronze hardware, setting, etc., will not be less than \$300, but will communicate to your committee the bids as soon as received.

#### 5. HEATING OF MILITARY HALL.

This matter was placed in the hands of a special committee by the Board of Trustees, but it has seemed best for me to report to your Committee, as your chairman was also chairman of the special committee, and can report to the Board of Trustees from either committee.

Seven or eight sets of blue prints of the drawings of the building, location, plat, and level profile, were sent to different parties, and four bids were received by the special committee, ranging from \$2,395 to \$3,750, the latter bid only reaching me on the day after the opening of the bids. The special committee were all present, opened the bids, and referred them to Messrs. Anderson and Ricker for consideration and report. A careful tabulation and comparison of the three bids showed that it was for the best interest of the University to accept the lowest bid, that of Maltby & Wallace, provided that some changes could be made in the construction and specifications without unduly increasing the cost, and this action was therefore recommended to the committee. Two members of the special committee, Professors Shattuck and Ricker, met Mr. Wallace, who quoted prices for the proposed changes, and submitted amended specifications, which were accepted by the committee, and the contract for the work was executed accordingly in duplicate, the total payment for the job to be \$2,760, as follows:

Original bid .....	\$2,395
Jacketing supply and return pipes in addition to boxing and packing (not included in bid).....	225
500 feet additional radiation (increasing radiation to 3,000 feet).....	125
Changes in boxing and packing in the ground .....	15
Total .....	\$2,760

Estimate to be made by architect on first of each month, 80 per cent. of this estimate to be paid to contractors within fifteen days thereafter; balance to be retained until final settlement. Bond for \$1,500 required in addition, which was furnished by contractors, with G. F. Beardsley as surety. Guaranteed to heat on inside building 90° F. above temperature of air outside, or from -20° to 70° F.

I have further arranged to have a 4-inch tile drain laid in the trench below the box to remove surface water and leakage and conduct the water into the University sewer near by.

The material for the job is now on cars in Champaign and will be delivered at the building early this week.

If the committee prefers a brick chimney to the steel one specified, which will last five years, I will arrange to have this change made, if so instructed.

After the signing of the contract, Messrs. Robinson & Burr, of Champaign, expressed dissatisfaction that the contract was awarded to Maltby & Wallace under the changed conditions without giving them an opportunity likewise to submit a new bid. As the conditions of the contract were substantially those required by the specifications submitted by Robinson & Burr, and the contract was practically let about \$170 below the corresponding bid of Robinson & Burr, their point does not appear to be well taken.

All of which is respectfully submitted.

N. CLIFFORD RICKER.

We ask your approval of extra footing of wall and the door already authorized by the committee.

We ask you to consider the matter of insuring the building during process of erection.

We ask your approval of the employment of a superintendent of construction at a maximum expense of \$100 per month.

We ask you to appropriate the necessary amount to put in new front doors to the University Hall, say \$300.

The heating for Military Hall has been contracted for, and the work is under way. We recommend the erection of a brick chimney instead of the steel one, as the amount of the appropriation will justify us in doing so.

Respectfully submitted,

S. A. BULLARD,	} Committee on
N. W. GRAHAM,	
ALEX. MCLEAN,	
	} Buildings and Grounds.

On motion of Mr. Cobb, it was voted to approve the report of the committee, and authority was given to make expenditures as asked by the committee.

The committee was instructed to report on the matter of insurance at the next meeting.

The committee on Minnesota Lands made the following report:

## MINNESOTA LANDS.

UNIVERSITY OF ILLINOIS, December 5, 1891.

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

GENTLEMEN: The committee on the sale of Minnesota lands presents this report of what it has done since its appointment at your last meeting.

Sales have been made as follows:

No.	Date.	Name of Buyer.	Description.	Acres.	Price.	Cash.	Total.
74	Sept. 26, '91	Berthel Pederson.....	NE $\frac{1}{4}$ NE $\frac{1}{4}$ 13, 124, 37	40	\$7	\$70	\$280
75	Oct. 5, '91	Swan J. Hallquist.....	NW $\frac{1}{4}$ , 26, 117, 35.....	160	10	400	1,600
76	Oct. 5, '91	Swan J. Hallquist.....	SW $\frac{1}{4}$ , 26, 117, 35.....	160	10	400	1,600
77	Oct. 15, '91	William Buethe.....	NW $\frac{1}{4}$ , 10, 116, 35.....	160	10	400	1,600
78	Oct. 15, '91	William Buethe.....	SW $\frac{1}{4}$ , 10, 116, 35.....	160	10	400	1,600
79	Oct. 16, '91	Ole Sorenson.....	SE $\frac{1}{4}$ , 10, 116, 35.....	160	10	400	1,600
80	Oct. 22, '91	William Doering.....	NE $\frac{1}{4}$ , 10, 116, 35.....	160	10	400	1,600
Total .....				1,600	.....	\$2,470	\$9,880

Of this land 40 acres was in Pope county, 320 acres in Kandiyohi county, and 640 acres in Renville county.

Gentlemen who were members of the Board then will remember that at the September meeting, in 1889, the question of selling our Minnesota lands was referred to a committee; that at the December meeting a report was made in favor of selling the lands in Pope county, and that Mr. Bennett, who had visited the lands, said that he did not think there would be any demand for the lands in Renville and Kandiyohi counties.

By order of the Board, made at the March meeting, 1890, Professor Shattuck visited the Pope county lands, and upon his recommendation authority was given the committee to fix prices, the minimum being \$6 per acre, and to sell in 40-acre tracts when desirable. The whole action was taken with reference rather to the Pope county lands than to those in Renville and Kandiyohi counties; but the power to sell was made broad enough to include all the lands, the understanding being that the lands outside of Pope county were not likely to be sold soon, and that they should be held at \$10 per acre. In the summer of 1890, Dr. Peabody inspected the lands in Pope county and about four-fifths of the lands in Renville and Kandiyohi counties.

When, therefore, your committee found, last October, that there was a brisk demand for the lands which had been least carefully inspected, or not inspected at all, and which it had not been supposed would sell at present, further examination of the lands was thought desirable, as well as an investigation of the conditions causing the unexpected demand. Accordingly Mr. Pillsbury was sent to visit the lands about the first of November. Upon careful inspection he found the lands to be of good quality; also, that most of the townships in which the lands lie have many well-improved farms, and that they have churches and some school houses. He learned, also, that unimproved lands in this vicinity have been advanced in price during the past six months from one to three dollars per acre. The leading crops have been good, and the prices which farmers are getting are such that money is more plenty there than it has ever been before. It seems to your committee that a still further advance in the price of lands in the near future is probable, and it recommends that for the present no effort be made to sell the lands in Renville and Kandiyohi counties, and that no sales be made now for less than \$15 an acre.

The outlook for any considerable advance in the price of the lands in Pope county does not seem very promising, and your committee will, unless otherwise ordered, continue their sale, making, however, the minimum price \$10 an acre.



It was found that the grass has been cut on our lands in a good many places; that several tracts of from four to fifty acres have been cultivated, and that four considerable areas have been fenced up as pastures. Your committee expects to be able to collect some rents for past occupancy, and to provide that hereafter the land shall not be used unless leased in advance.

In May last Mr. Frank Topka sent in a proposal for the N. W.  $\frac{1}{4}$ , 6, 116, 32, and the regular contract was given him. He has recently informed us that he made a mistake in his proposal, and that he wants, instead of the contract he now has, one for the N. W.  $\frac{1}{4}$ , 6, 116, 34, which joins his farm, the first-named tract being twelve miles east of him. If there be no objection, your committee will give Mr. Topka the contract he wants upon his making due assignment to the University of that which he now holds.

Respectfully submitted,

S. A. BULLARD,	} Committee on
S. W. SHATTUCK,	
W. L. PILLSBURY,	

Minnesota Lands.

The report of the committee was approved, on motion of Mr. Cobb.

The following communication from the President of the Alumni Association of the University was then read:

CHAMPAIGN, Ill., December 8, 1891.

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

GENTLEMEN: During the past two years the Alumni Association of the University of Illinois has undertaken the task of compiling a complete directory of all the graduates of the institution. No such record is kept at the University, and the work was not an easy one. Our second edition was issued this fall, containing also a brief resumé of last commencement happenings, and a statement of University affairs.

Our efforts in this direction have brought responses from hundreds of old graduates and students, which are a convincing proof that the University of Illinois still holds a large place in the hearts of her sons and daughters.

Among the settled customs of the association is that of holding a grand reunion, banquet, etc., every ten years. 1892, being the twentieth anniversary of our first commencement, is the season toward which many of our number are looking, expecting to return here at that time. Some of the societies are already planning reunions, which will attract many. Our Alumni Association has appointed a strong committee, which is already at work, and has plans partly perfected, somewhat as follows: Tuesday of commencement week being Alumni Day, we have decided to ask that appropriate rooms in University Hall be assigned to us for Tuesday evening, and that the evening be given over entirely to social features, informal, of course, and that Trustees, Faculty, and former members of these bodies who may be present, and Alumni be expected to participate. Wednesday, after commencement exercises, we have thought a proper time to give an ALUMNI DINNER (or call it a University, or Corporation Dinner), perhaps in the Chapel, to include Alumni, Faculty, Trustees, and such guests as might be asked; said dinner to be got up in the best style possible, and to conclude with toasts, etc. We are making special efforts to secure the presence, on these occasions, not only of Alumni, but of our former Regents, Gregory and Peabody, and of other lights of the old days.

In a few days we send out our first notices, to all graduates, calling their attention to our "Vigintennial," and asking for replies, stating, if possible, "I am coming."

After a time, a second circular will be sent, giving more in detail plans, etc., also a list of those who have already signified their intention of coming, and so on. We shall leave nothing undone to make our reunion a grand success.

We believe this will be one of the greatest means that can be used to stimulate the interests of the Alumni in the University. We believe that its complete success can be assured, if we may have not alone the efforts of our own numbers, but the cordial and hearty coöperation as well of the Faculty and Trustees. One of our number has already been detailed to lay our plans and wishes before the Faculty.

I now, on behalf of your graduates, have endeavored to give your body an idea of our plans. We invite your counsel, or criticism, or advice, as may be; but in whatever we undertake we desire most of all your good will, your efforts and assistance in such ways as may be open, and your personal efforts, as far as convenient.

Respectfully,

W. A. HEATH,

*President Alumni Association.*

This communication, as well as the general subject of the next commencement exercises, was referred to the Committees on Buildings and Grounds and on Finance, to act in conjunction with the committee of the Faculty on public exercises; and the Secretary was instructed to say to Mr. Heath that the Board thanked him for his communication, which it had heard with great pleasure. And further, that the Trustees feel the value of his suggestions, and declare themselves in hearty sympathy with his plans, which they will make it an especial duty to forward in every way found practicable. Also that to the Alumni Association will be given the use of such rooms and halls as it may need.

The committee on rules for the government of students made the following report:

#### RULES FOR GOVERNMENT OF STUDENTS.

Membership in the University implies compliance with the regulations found necessary by the authorities of the University.

Students neither lose the rights nor escape the responsibilities of citizens.

#### REGISTRATION, PAYMENT OF FEES.

The two days preceding class formations at the beginning of each term shall be known as Registration Days. At this time each student will file with the Regent a list of studies desired for the term and will receive a class card. Application for registration at any other time must be accompanied with a specific statement showing reasons for not registering at the proper time.

Students may not enter classes without a class card. Class cards must be presented to the Business Agent for endorsement within ten days after they are issued by the Regent.

No student who is not matriculated may be admitted to any University classes beyond those of the freshman year; provided that this restriction shall not apply to special students taking one line of studies.

## ABSENCES.

Students who desire to be absent from any duty should obtain permission for such absence from the proper officer or instructor; if circumstances prevent application for such permission, they shall offer their excuses for absence immediately upon their return to duty.

Students who desire to be absent from the University must apply to the Regent for leave of absence.

## DISMISSION.

Students who have maintained a good character for faithful study and correct deportment, and who have paid all their University dues, may at any time ask and receive an honorable dismission; and if any such student has attended the University for one or more years, he shall be entitled to receive with dismission a certificate stating the studies which he has pursued, and the standings he has obtained.

## STUDIES, EXAMINATIONS, PROMOTIONS.

All studies in the University courses are free to matriculated students. Each student may choose and pursue such as he may desire, subject to such conditions as to preparation, times of study and number of studies as may be necessary to secure efficiency in classes and economy in teaching.

In accordance with the provisions of the act of the legislature of 1873, the Trustees require that each student shall take, each term, one study at least from the following list:

Physics, chemistry, mineralogy, physiography, anatomy and physiology, botany, zoölogy, geology, entomology, drawing and designing, mathematics, surveying; elements of agriculture and horticulture, vegetable physiology, agricultural chemistry, agricultural engineering and architecture, animal husbandry, rural economy, landscape gardening, history of agriculture, veterinary science; architectural drawing and designing, elements of construction, graphical statics, history and esthetics of architecture, estimates, mining engineering, metallurgy, analytical mechanics, geodesy, principles of mechanism, hydraulics, thermo-dynamics, strength of materials, prime movers, mill work, machine drawing, roads and railroads, construction and use of machinery, modeling and patterns, bridges, stone work, astronomy; military science, mental science, logic, and political economy.

That the time of students may be fully employed, each person is required to pursue three studies; he may not have less or more without permission of the Faculty. Permission to take a fourth study will not be given if the average for the term next preceding has fallen below 90 for three studies, or 85 for four studies. Change of studies during a term may not be made without permission of the Faculty.

Examinations on studies of the term will be held at the close of each term. A standing of 75 on a scale of 100 is required to secure a credit for any study.

A student who receives a mark of not less than 60 in one study is *conditioned* and may have a re-examination within three months by making application to the instructor within ten days of notification of standing.

A mark below 60 in any one study, or below 75 in two or more studies, constitutes a *failure*, and the student may not proceed with any studies without special permission of the faculty.

A student who has pursued a study with a class in the University and has been absent from regular examinations for satisfactory reasons, may be examined by the professors at their discretion.

Special examinations not provided for as above will not be held except by permission of the Faculty.

Examinations of the senior class upon subjects pursued in the spring term must be completed one week before the end of that term.

A student may be advanced from one class rank to another only at the beginning of a term, and to secure such advancement he must, if in a regular course, have received credits for as many University studies as have been taken by students of that course in the class he seeks to enter; and if a special or elective student, he must have received credits for as many University studies as have been taken in some one of the full University courses by the students of that class; provided that in the spring term students who have a reasonable prospect of graduating at the end of that year may be ranked as seniors.

Studies in the University courses pursued at other institutions or privately, may not be credited, except by vote of the Faculty.

#### RULES ON LIBRARY.

1. The library will be open for use during term time from 8 a. m. to 5 p. m. each week day, except Saturday, when the time will be from 8 a. m. to 12 m.

2. Students will not go behind the railings or take books from the shelves except on permission of the librarian, but will apply to the attendant for books desired

3. Reserved books will not be delivered to any students except those who require the same in their studies.

4. Lexicons and text-books will not be given out for ordinary use in the study of lessons.

5. All books, pamphlets, or papers, must be returned to the attendant before the student using them leaves the room, except as hereafter provided. Students failing in this will forfeit the privileges of the library.

6. No student will take books, pamphlets, or papers, from the library hall; except that bound volumes may be taken upon the written order of an instructor.

7. Any student injuring or losing any book or paper will pay the cost of the same, or the damage to the set or series to which it belongs.

8. The library hall is used as a reading room; hence all talking and unnecessary noise are strictly forbidden.

#### UNIVERSITY BUILDINGS AND PROPERTY.

The University buildings are to be closed at 6 p. m., and no room may be used at a later hour without permission from the professor in charge or the Regent.

Each student is expected to have a careful regard for the general neatness and good order of the buildings and grounds of the University.

Any student willfully or carelessly injuring the property of the University is expected to pay for its replacement or repair.

Smoking is not permitted in any of the public buildings of the University.

#### ORDER AND DISCIPLINE.

Attendance on the regular class and University exercises and the observance of good order in the buildings and on the grounds of the University are the duty of every student, and their enforcement is the duty of every member of the Faculty. In case personal admonition of a delinquent student is not sufficient to its end, he will be reported to the Regent's office in writing, and notice shall be given him by the Regent of such report, which notice shall be taken as a first warning. If a second such report shall be received by the Regent within one year concerning any student, he will be notified as before, and notice will be sent to his parent or guardian also, which action shall be taken as a second warning.

For a third offense reported within a year thereafter he will be summoned before the Faculty for a third warning and reproof, and his parent or guardian will again be notified, after which, if another such report be received at the Regent's office within a year, he will be called before the Faculty and held liable to suspension or expulsion from the University.

For aggravated offences, or for those especially injurious to the University, this disciplinary process may be indefinitely abbreviated.

#### SOCIETIES AND MEETINGS.

No society or association may be organized among the students of the University without permission of the Faculty, and no change in the character or regulations of such society or association may be made without such permission.

The Faculty reserves the right to withdraw its authorization from any society of students, if, in the judgment of the Faculty, the well-being of the University requires such action.

No special meeting of students' societies or associations, or any public meeting of students, may be held during the hours devoted to the regular exercises of the University, or in the rooms of the University, except upon permission obtained from the Regent.

The Trustees authorize the heating and lighting of rooms specially assigned to the recognized University societies and associations, but for their regular meetings only.

Meetings of the societies occupying University rooms must close at 11 p. m. during September, October, March, April, May, and June; at 10:30 p. m. during November, December, January, and February.

The times for all public entertainments or exhibitions must be fixed, with the consent of the Faculty, at least two weeks beforehand; and all programs for the same must be submitted to the committee on public exercises and receive their approval.

The junior class will give a public exhibition under supervision of the committee on public exercises at such time as the Faculty may direct; the seniors may give class day exercises during the commencement week.

No publication may be issued by students in the name of the University, or by societies or classes, without permission of the Faculty.

#### MILITARY DEPARTMENT.

Military instruction at the University is not a matter of choice with the students or with the authorities; it is a matter of law and duty. The congress of the United States, and the legislature of Illinois have made it a special and imperative feature in the charter laws of this institution—an obligation in return for the advantages of free education.

The following rules shall govern the military duties so imposed:

1. Every male student shall study *United States Drill Regulations For Infantry*, and shall recite upon the same once a week until he passes two creditable term examinations; and every male student not excused by the Faculty on account of physical disability, or other sufficient cause, shall have military drill twice a week until he obtains six creditable term records. Those selected as officers shall continue recitations during their term of service.

2. The class room instruction and the drill practice shall begin for each student as soon as practicable after he enters the University; provided, that students in the preparatory classes, carrying no freshman studies and not expecting to matriculate during the year, shall not be thus enrolled.

The study of the United States drill regulations and of military science shall be subject to the same rules in regard to recitations, examinations, and standing as other University studies.

Drill practice shall count 100 if every drill is attended and all duties well and faithfully performed. Absence, lack of promptness and attention, disobedience, improper uniform, etc., shall detract from this maximum standing. Any student falling below 75 fails to pass, and loses all credit for the entire term, and cannot proceed with other studies except by special permission of the Faculty.

Standings in study and drill shall be placed on record, with other class credits. The entire course of study and drill as prescribed shall count as two full class credits of which the two terms of recitations and drill may count one and the four remaining terms of drill as the other.

3. Officers of the battalion shall be nominated by the professor in charge, and confirmed by the Faculty. All students having passed two term examinations in class room military instruction, and having gained two term credits in drill practice, shall be eligible for corporals; those having three term credits in each shall be eligible for sergeants; and those having six term credits in each shall be eligible for lieutenants and for officers of higher rank.

Proficiency and capacity in the military department shall be the basis of promotion in the battalion; provided, that any serious college censure shall disqualify in this respect.

The professor of military science, with the approval of the Faculty, may relieve or dismiss any officer or non-commissioned officer, or appoint others than those specified above to positions in the University battalion when the good of the service may require it.

4. Special military scholarships shall be created, good for one year, to which shall be attached a money value of twenty-two and one half dollars. Students attaining the rank of commissioned officers shall be eligible for these scholarships, and one scholarship shall be awarded to each such officer serving in the battalion, one-third its value to be payable at the close of each University term.

5. During the spring term the Faculty shall appoint a committee, which shall examine candidates for nomination to the governor of the state, to receive commissions in the state militia. This examination shall be upon the theoretical studies pursued in the military classes, and the practical work taught at this University. Candidates for this examination must be members of the senior class in full standing at the time thereof; must have completed the course of military studies; must have served three terms as captains or lieutenants, and must be approved by the Faculty, as having good reputations as scholars, officers and gentlemen.

6. The uniform shall be of cadet gray with black cloth trimming; cut and form in accordance with United States regulations; members of the band to wear the usual trimmings.

The commissioned officers shall wear the uniform of officers of same grade in the National Guards. All shall wear the University badge on the cap.

Uniforms must be procured within one month after entering upon military duty.

7. A suitable number of students may be assigned by the professor of military science to be musicians, and every full term of such service as musicians shall count for one term of drill.

The band instruments belonging to the University are for use in practice, drill, and other college exercises; they may be used for other purposes only by special permission. Members of the band shall receipt for their instruments and be liable for any damages. At the close of each spring term the instruments shall be turned over to the Business Agent and receipts taken up.

#### GYMNASIUM.

1. The gymnasium will be open at such times as the Faculty may direct.

2. No use may be made of the hall or of the apparatus for gymnastic purposes, exercises, or games, at times other than those assigned by the Faculty for such uses, unless by special permission.

3. The instructor in charge will see that order is preserved in the hall during class hours.

4. Students excused from drill for physical disability will not be allowed to exercise in the gymnasium except by special permission of the Faculty.

5. All students must provide themselves with gymnasium slippers.

6. The use of tobacco in the hall is prohibited.

7. Damage to apparatus will be charged to the person or persons causing it.

#### THE ILLINI.

1. The control of the *Illini* on the part of the students of the University shall be vested in a committee of students to be called the *Illini Board*, to be elected by the students in accordance with the regulations approved by the Faculty. Copies of these regulations may be had at any time in the Regent's office.

On motion of Mr. Morgan, the rules were adopted as reported, and the Secretary was instructed to have enough slips containing the rules struck off for present use; but to defer printing the rules in pamphlet form until after the next regular meeting of the Board.

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

*Resolved*, That the pledges held in the Regent's office, with regard to secret societies, be destroyed, and that public announcement of this be made.

On motion of Mr. Morgan, it was ordered as follows:

The Treasurer of this Board is hereby directed to pay bills for printing and binding of a second edition of the first volume of the Zoölogical Survey of the State of Illinois to the amount of the state appropriation therefor on the order of the State Board of Contracts, and in no other way.

The Committee on Instruction asked further time to consider the question of music fees, and the request was granted.

The request of the Christian Associations of the University for more room was referred to the Committee on Buildings and Grounds.

The question of printing circulars, blanks, certificates, and diplomas for framing, to be used in connection with accredited schools, was referred to the Committee on Publications, with instructions to confer with the committee on preparatory schools, of the Faculty, and to report at the March meeting.

On motion of Mr. Morgan, it was voted that the President confer with Professor Forbes and report at the next meeting upon the relations between the University and the State Laboratory of Natural History.

Mr. Morgan and also Mr. Graham spoke of the danger, both to property and to life, from fire in University Hall and the Chemical Laboratory, and the subject was referred to the Regent and the Faculty, to be reported upon at the next meeting of the Board.

The question of affiliation with the Chicago College of Physicians and Surgeons was referred to the Executive Committee for investigation and a report at the next meeting.

The request of Messrs. Haggard and Shaw was referred to the Executive Committee.

The Finance Committee filed the following reports:

URBANA, ILL., December 9, 1891.

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

GENTLEMEN: Your Finance Committee has examined the quarterly report, ending November 30th, of John W. Bunn, Treasurer, and finds the same correct, and that it shows a balance in the treasury of \$92,517.12.

RICHARD P. MORGAN, } *Finance Committee.*  
WM. W. CLEMENS, }

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

GENTLEMEN: Your Finance Committee has examined the vouchers of the Agricultural Experiment Station, No. 20, and No. 34 to 111 inclusive, of the current year; also University vouchers No. 501 to 775, No. 1081 and No. 1101 to 1150, inclusive, of the financial year ending August 31, 1891, and has found the same correct and properly receipted.

RICHARD P. MORGAN, } *Finance Committee.*  
WM. W. CLEMENS, }

Adjourned.

W. L. PILLSBURY,  
*Secretary.*

S. A. BULLARD,  
*President.*



## MEETING OF MARCH 8, 1892.

The Board of Trustees of the University of Illinois met at 3 o'clock p. m., Tuesday, March 8, 1892, in the University Parlor, in Urbana, Illinois. There were present Messrs. Bullard, Funk, Graham, McKay, McLean, Raab, and Shawhan; absent, Governor Fifer, and Messrs. Bryant, Clemens, Cobb, and Morgan.

The minutes of the last meeting were approved on motion of Mr. Funk.

Mr. Bullard was, on motion of Mr. McKay re-elected President of the Board for the ensuing year; and Mr. Pillsbury was, on motion of Mr. Raab, re-elected Corresponding and Recording Secretary for the same term.

On motion of Mr. McLean, the Secretary's salary was fixed at \$500 per year.

On motion of Mr. Raab, Messrs. Cobb and Funk were elected members of the Executive Committee of the Board.

Professor Burrill, Acting Regent, presented his report.

## REGENT'S REPORT.

*To the Honorable Board of Trustees.*

GENTLEMEN: In presenting this quarterly report I am attempting to discharge a required duty, but the review made and the prospects anticipated are so satisfactory that the task is a pleasure as well as a fulfillment of law.

Since your last meeting the internal affairs of the University have moved forward smoothly and successfully towards the full accomplishment of the great purpose for which the great institution exists. Never was more earnest work done by the members of the Faculty and their assistants, or better progress made by students; there could not be greater concord of will or greater harmony of effort. So far as union makes strength, we have our full force available and in action. The relations between teachers and students continue pleasant and hopeful,—an excellent indication of high accomplishments. Considering the amount of sickness in the country during these last winter months, we have escaped remarkably; though several individuals have suffered quite severely, especially from the prevailing influenza, usually called "grip;" and we have lost by sudden death an exceedingly promising member of the sophomore class. J. L. Sullivan, of Mansfield, Illinois, after a short but complicated illness, died February 25th, at his boarding house in Champaign.

## ATTENDANCE.

Twenty-five new students have entered this term, making the entire enrollment so far this year 574, against 519 last year. There are now on duty 40 persons engaged in the actual work of instruction, besides 9 regular employés as clerks, janitors, firemen, etc. Two of the instructors are members of the senior class, temporarily engaged in the preparatory department. For this work other provision should be made another year.

## TECHNICAL LECTURES.

At your last meeting authorization was given for the employment of lecturers upon special technical topics before the students of the college of engineering. A good deal of preliminary correspondence was found necessary, and some delay thus occurred; but the course was auspiciously opened Thursday evening, February 25th, by W. L. B. Jenney, of Chicago. His subject was: "Tall Building Construction on Compressible Soils." The lecture was given in the chapel and was attended by about 250 students, besides members of the Faculty and some citizens. The lecture was admirably given, suitably illustrated by charts and lantern slides, and was full of interest for all in attendance. It is expected that ten lectures will be given in this course, distributed along at somewhat equal intervals during the remaining part of the year. Much pleasure and profit is anticipated from them.

## UNIVERSITY EXTENSION WORK.

The University Extension work has also had an excellent and hopeful beginning. Professor Butler gave three lectures upon English Literature in the chapel, and was followed by Professor Forbes with three lectures upon "The Lower Forms of Life." Both of these courses were attended by about 300 citizens and members of the University, all of whom seem to have enjoyed the instruction given. Professor Stratton will give the first lecture of his course this evening. Nine lectures were all that were offered the citizens' organization here by the committee of the Faculty; but a request has been made for more, and Professor Crawford has consented to deliver three upon English Constitutional History. Professor Butler is giving two courses, on Friday and Saturday evenings, at Oak Park and at the Newberry library building in Chicago. Other calls for him have come from Rock Island, Rockford, Farmer City and LaSalle, but it was impossible for him to accept them all this term. Some engagements will be filled by him later. Professor Brownlee was asked to organize a local center at LaSalle, and also to give two readings to help stimulate interest in the work. Now Professor Crawford has accepted an invitation to give a course of lectures at Pontiac.

## UNIVERSITY EXTENSION WORK AT TEACHERS' INSTITUTES.

The Faculty, through its committee on University Extension, has arranged for special work in this line for the teachers' institutes, usually held in each county of the state during the summer months. This is not offering ordinary instruction to public school teachers, but is an endeavor to introduce something of the character and quality of university teaching, taking indeed a little of the University itself to the institutes. By this means it is hoped that the latter may be helped and the former recognized to a greater extent than heretofore. Professor Baker has already engaged to give a course at Sullivan.

## ACCREDITED SCHOOLS.

Since your last meeting six high schools have been visited by members of the Faculty, and four of them have been placed upon our accredited list. This makes a total of 68 high schools from which their graduates

may enter our freshman class without examination. Correspondence is also in progress with others, some of which no doubt may be accredited.

#### AFFILIATION WITH THE NORMAL SCHOOLS.

A matter of different kind, but falling properly in this connection, is the possible establishment of some recognized connection between the state normal institutions and the University. At least some system of scholarship credits between these state educational institutions might properly exist, and probably some correspondence in courses could be adjusted by which students in one might profit by certain work in the other. Authorized inquiry is all that can be asked for now, if this seems wise to you.

#### PREPARATORY SCHOOL.

The question of a proper preparatory school here in this locality is worthy of earnest attention. There has been much rather desultory talk about a union high school for the towns of Champaign and Urbana, but the time appears to be now at hand when definite action could be wisely taken. The University would be altogether better off without its preparatory department, provided suitable and apparently feasible provision should be made for preparatory work in the vicinity. An excellent high school with special courses for prospective University students could easily be maintained here; and, if properly organized and equipped and then sufficiently advertised, would presumably contribute much to the University attendance. I believe there is really great need for such a preparatory school and that efforts ought now to be made to secure it. It is true, the townships mentioned must found and maintain the school contemplated, but the University may at least give advice and consent in a matter so intimately touching its own interests. Authority to say that our preparatory department will be abandoned whenever acceptable provision for such instruction is made by the township authorities may be enough to secure this desired result. Your expression of interest will certainly be respected, and may lead to the fulfillment of your wishes.

#### SUMMER SCHOOLS.

An inquiry from one of your number raised the question of holding at the University summer schools for teachers. This was carefully considered by the Faculty, and as a general proposition was deemed advisable, because it is evident that there is a demand for such instruction. But inasmuch as the members of our corps of instruction will be busy next summer vacation preparing exhibits for the Columbian Exposition, and as it will be manifestly impossible to conduct successfully such a school in Illinois during the summer of 1893, it was recommended that the experiment be postponed until 1894. The proposed lectures in county institutes may be considered a sufficient undertaking for this year. Such summer schools are rarely self-supporting. Some universities have a special fund to meet the deficit. This too should be considered before advertising a school.

#### MILITARY DEPARTMENT.

The flag which first floated from the top of its staff during your last meeting has been raised every academic day since that time. Yonder it now is, a beautiful emblem in itself and a significant indication of the work in, and spirit of, the institution under your management and control. The flag was presented to the cadet battalion, and I am sure no one takes more pride in it than the present members of this organization.

The heating apparatus has been put into Military Hall. Of it, however, you will learn from the committee having the matter in charge. One further improvement would be appreciated by Lieutenant Hills and the

students who drill between 4 and 5 o'clock dark winter afternoons, viz: several arc lamps. From this date onward these are not so essential, but of course will be similarly demanded another year. Attention is asked to the request of Lieutenant Hills for four trumpets for his battalion drill practice, and for target materials, \$25.00; also to his request for more labor upon the muskets, so that they may be kept in better order.

The work of the military classes seems to be fairly satisfactory. The new arrangements of this year continue to show adaptation to existing conditions, and better results are anticipated for the future. So far class instruction has been given but once a week, as provided for in the rules; but for the summer term the professor wishes to meet twice a week those who continue the study and from whom the officers are chosen. This has been done in former years and is especially needed next term on account of the introduction of the new drill regulations. The military band is doing admirably under the leadership of Charles A. Elder. Twenty dollars is desired for new music.

#### ATHLETICS.

The general interest in out-of-door sports has been kept up by the victories of our foot-ball team; and gymnasium practice has been stimulated by preparation for an exhibition in Champaign under the auspices of the University Athletic Association. Instruction in the gymnasium has been given by three students selected for proficiency and paid by the University. While good work has been done, better arrangements should be made as soon as practicable. A question has been raised in regard to the provision of baths in the gymnasium building. If possible to construct them, they would largely contribute to progress in athletic affairs and work an advance in physical culture.

#### THE ILLINI.

The *Illini* is much improved in the new dress provided for at your December meeting, and those responsible for its reputation are straining every endeavor to make the paper creditable and useful. I submit a proposition to furnish 300 or more copies for the rest of the year, mailed for 28 cents per copy.

#### CHRISTIAN ASSOCIATIONS.

The Young Mens' and Young Womens' Christian Associations have energetically undertaken to raise a fund for a new building for their uses. Subscriptions have been taken among themselves amounting to over \$2,000; and they propose to raise in some way at least \$25,000. In this great and laudable enterprise they need every possible encouragement; but believing that success is attainable, they withdraw the request presented at your last meeting for better quarters in University Hall. These statements alone testify to the activity of these helpful organizations. They are alive and full of interest. How much more effective will they be when they get a new home for themselves! A question is sure to arise as to the character and use of the building in connection with University work. The rooms may be devoted entirely to the direct affairs of the associations, or they may in part be available for all students and for class purposes. In some cases such structures are placed on the grounds of the institution with which they are connected; in others they are erected upon land the title of which is in the association for assigned reasons. The uses to which the building is designed should be settled first, then the question of site may be an easy one. It seems to me a committee of conference to report at your next meeting will be desirable.

NATURAL HISTORY HALL.

The work upon the new science building has been pushed along when the weather permitted, as you will learn from the report of your committee. The ceremonies of laying the corner stone have been arranged for to-morrow (Wednesday) afternoon, and it is hoped that members of the Board may find it possible to attend. The principal address is to be given by President T. C. Chamberlain, of the University of Wisconsin.

REPAIRS AND IMPROVEMENTS.

The new front doors of University Hall have just been hung, and prove to be a great improvement in appearance and use over the old ones.

Rapid progress has been made in fitting the electrical rooms. The new steam engine is in place and in use. Both boiler and engine are thoroughly satisfactory in operation, and all of the new apparatus is believed to be the best of the kind. The expenses, however, have exceeded by \$500 the assignments made in December. This is explained in Professor Stratton's report. A new appropriation is asked for to cover this amount. The same report shows that donations have been made to the department amounting to \$502.45 since the beginning of the present year. Further apparatus is mentioned as needed, as follows:

One photometer.....	\$275 00
One cradle dynamometer.....	300 00
One direct current dynamo.....	400 00
One are light machine.....	300 00
Total.....	\$1,275 00

The 3d and 4th of these items are for pieces of apparatus which, while desirable for illustration and experiment in the laboratory, will also be of service in furnishing light in the buildings, and, I understand, will be sufficient to replace gas for this purpose wherever it is now used.

A request is renewed by the Philomathean society for light in their hall. It seems to me that whatever wiring is done in the building should be planned and put in by the University, under the direction of Professor Stratton. There is indeed much danger from wires improperly adjusted. But the change from gas to electric lights is very desirable.

The electric signal clock was put in some weeks ago and works well. It is of great service in the movements required by the program. The cost will slightly exceed the appropriation, but the bills are not yet settled.

The improvements ordered in the Chemical Laboratory have been made. The window guards in the basement have been put in and the photographic rooms have been refitted. The supplies for the physical, botanical and chemical laboratories have been ordered, for which appropriations should be made at your June meeting.

Requests are made from the department of chemistry, as follows:

For cement floor in basement store room.....	\$310 00
For shelving in same.....	50 00
For 3 students' desks, each for 8 students.....	350 00
For thermo-chemical apparatus (mentioned at last meeting).....	500 00
Total.....	\$1,210 00

TESTING LABORATORY.

The testing laboratory for the college of engineering is still poorly equipped and should have before long large expenditures made for it. The most urgent wants just now are for appliances for use by Professor Talbot's students in hydraulics. He asks for—

Pump .....	\$125.00 to	\$225 00
Water motors .....		80 00
Water meters .....		140 00
Several small pieces .....		55 00
Specimens, etc., for tests .....		25 00
Total .....		\$525 00

DRAUGHTING ROOMS FOR MECHANICAL ENGINEERING.

The mechanical engineers are seriously in need of better draughting rooms. A petition to this effect is submitted with this from the members of the sophomore class. It has been impossible to provide enough room of any kind for the students in these classes and the available space is not well suited to their work. University Hall was designed for classroom recitations and for small numbers in other work. For these purposes the plan is admirable and the building continues to be useful. But the methods of instruction have been much modified in certain subjects in ways that necessitate more room and different arrangements. The relief afforded by the new science building will remedy the present trouble only to a very limited extent. If possible some further provision should be made, before the opening of another year. According to the professor in charge, the room used for the classes in art and design is also a poor one for the best work in the department. Northern light is required. It is quite possible that some exchange can be made which will more satisfactorily meet the required conditions.

NEW BUILDINGS.

The general subject of new buildings has been earnestly considered by the Faculty, and after much discussion the following were pronounced to be urgently needed now:

A building for the college of engineering .....	\$75,000 to	\$150,000
A library building .....		100,000
A museum building .....		80,000

It was voted that no order of precedence should be made among these three, but that all are demanded at the present time for the essential uses of the institution.

I give herewith a short table showing the increase of students by numbers and by percentages for the years 1885-86 to 1890-91, prepared by Professor Talbot from the catalogues. From this it will be seen that the number of students in the engineering courses has considerably more than doubled during the five years shown. The increase for the last two years is 26-per cent. It will be two years before a new building can be provided if the initial steps are taken now. According to this rate of increase there will be over 300 students to care for in these courses two years hence. The probability is much greater if adequate provisions are made for instruction. This cannot be done without a new building and equipment.

## INCREASE OF STUDENTS IN THE ENGINEERING AND OTHER COURSES, 1885 TO 1891.

Year.	Total students	Total with course specified	Eng. college.	Per cent. Eng. students of all specified	PER CENT. GAIN OVER PREVIOUS YEARS.		
					All courses.	Eng. college.	Others
1885-1886.....	332	310	123	40			
1886-1887.....	343	312	141	45	1	15	-9
1887-1888.....	375	336	158	47	8	12	4
1888-1889.....	418	399	200	50	19	26	12
1889-1890.....	469	442	215	49	11	8	14
1890-1891.....	519	492	252	51	11	17	6
Av. per cent. of increase.....					10	15.6	5

The library now has, according to the accompanying report of the librarian, 21,216 volumes, besides a large number of pamphlets and papers. The room is a waiting and reading room for students—the only place of the kind we have. It is impossible to keep the two things together in desired order and convenience. More space is required for both purposes. To keep abreast with the times special rooms are absolutely essential for what is called *seminary* work in connection with the library work by students among books and documents, analogous to the laboratory investigations of the science students. And above all the library should be in a fire-proof structure. No argument can be needed upon this point. The large collections of many years, and we hope much larger additions in the years to come, ought not to be exposed to the dangers of fire to which they are now subject.

If the University makes the efforts proposed for the World's Fair, there ought to be secured a very large amount of museum material. The promise of a suitable building for its safe keeping and adequate display will strongly influence donors as to the disposition they make of their specimens. A proper museum structure ought to be provided, and by January 1, 1894, it should be filled with the richest collections of the world. This opportunity should not be let slip, at least through any want of activity on our part.

Other buildings are desired. An assembly hall, capable of seating 3,000 persons, an astronomical observatory, a gymnasium, and other structures are really wanted; but it is the opinion of the Faculty that the three named are the most essential for this time.

The mechanical shop as at present arranged is decidedly unsatisfactory; especially is this the case with the parts devoted to blacksmithing and foundry work. The forges are very inadequately ventilated. The smoke and fumes from the fires are intolerable, unbearable by students and instructors and a nuisance to the rest of the shop. Improvement in some way is urgently demanded, and as soon as practicable. The instability of the upper floor upon which numerous machines and machine tools are placed, should also have attention. I beg that this may be referred to a committee for such action as may be deemed wise. If the tremor and dirt would not too much interfere, it may be possible to provide a good draughting room in the shop building for the mechanical engineering students. This also is worthy of consideration at this time. If deemed best to use the room for this purpose, its immediate refitting would afford relief where it is decidedly needed. This is, however, only advised if it proves that accommodations can not be secured in University Hall, after the natural history departments are vacated. It has been somewhat roughly estimated that \$70 will refit this room.

## ELECTIVE STUDIES.

Though no formal vote has been taken upon the subject, I believe it is unanimously thought by members of the Faculty that the courses of study can be much improved by the introduction of the elective system, instead

of the rigidly prescribed list of studies. In the technical courses comparatively little change from the present order can be made, but in the case of the general literary and scientific studies, wide departure is suggested. Nothing definite can be submitted to you in this line at the present hour, but since the catalogue must be published before your next meeting, and since this must determine the matter for next year, it is thought wise to ask you to appoint a suitable committee to whom the very important matter may be referred with power to act.

#### INCREASE OF TEACHING FORCE.

Intimately connected with the adoption of courses of study is that of further teaching force. With the increase of students and the richer offerings made to them, additions to the corps of instruction become essential. In several particulars the demand is now urgent, besides the filling of the recognized vacancies. There is, however, a question of general import which should receive attention before any further appointments are made. Shall the department be divided to such an extent that the chief can give all or most of the instruction, or shall he have associate and subordinate assistance in a larger sub-division of the University? The former policy has largely prevailed heretofore. It seems to me the latter is now, at least, the better plan to adopt. The efficiency of instruction, the harmony of adjustments, due attention to economy of time and of money, all favor this idea. Assistants can be chosen for their special fitness for the particular work required, degrees of standing and of salary can be instituted which will serve as a stimulus to effective work and thus to advancement, and at the same time jealousies in consequence of unequal compensation may be avoided. All this applies, of course, to new appointments. It certainly must not be understood to commend disturbing existing relations.

*Fellowships.*—Looking toward this same end, in part, it seems to me very desirable that further opportunities should be provided for post-graduate work. Almost no attention has been given to this, though even a comparatively small number of such students would materially aid in gaining outside, high repute for the University, and in giving tone and quality to the undergraduate work. Good example is an excellent stimulus. From post-graduate students assistance in instruction can be secured to better advantage than is usually possible to get otherwise. To this I earnestly recommend the establishment of a limited number of fellowships, perhaps open only to post-graduates of this or other collegiate institutions. If a fellowship should be made worth \$400 per year the possessor thereof might be required to give some instruction, not to exceed one class a day, so that the real cost to the University of the fellowship would be nothing, while the advantages gained would possibly be very great. Among other things, we should thus help to stimulate in all departments the idea and habits of research, an essential to every live teacher, and the only substantial basis to scholarship and to public recognition. It is nothing less than criminal, where it can be avoided, to impose upon any teacher so much routine class-room work that it necessarily prevents him from seeking new knowledge in his specialty from original sources. Our institution may as well sell out at once, as to dry up within its dusty class rooms and make no marked addition to the world's knowledge. Teaching is a noble profession, but he who only retails facts and ideas from some one else tends to lose any title to nobility of character and influence that he may have once possessed. It should not be a requirement upon, but an opportunity eagerly prized by, every teacher of every subject, literary as well as scientific, to make research a part of his daily life. He will thus come fresh to his classes, and his own enthusiasm will propagate like fire in combustible material, in the otherwise unawakened minds of his students. He himself becomes more of a man, and they helpfully and hopefully profit by example more than by precept. But investigation requires time and energy, as well as disposition and ability. To my mind the best way to make sure of the former is to provide suitable assistance to the men who possess the latter characteristics.



It is not improper for me to add that such assistance is now especially called for in the departments of agriculture, civil and municipal engineering, English and rhetoric, and of French and German. It is not, however, supposed that any action should be actually taken in these matters until your next meeting, except, if you so decide, the authorization of more definite provisions of post-graduate work and the founding of fellowships. Besides this, the founding of a professorship or associate professorship of applied mechanics, affecting all the causes of engineering, should be considered, and no doubt will be acknowledged as an essential step in desired progress.

It is desirable that instruction in Italian and Spanish should be provided. If each of these should be taught upon alternate years only, it would be possible for all regular students to attend the classes in both. With assistance in the beginning classes in French and German, these new languages could be thus offered by the present professors.

#### MINING ENGINEERING.

Attention is especially asked to the report of the professor of mining engineering. It is important to decide what shall be attempted in his department. The only mining in Illinois worthy of consideration in this regard is for coal. No collegiate course in mining in this country makes this a prominent specialty; where the metals receive abundant attention. Will it not be wise to strike out in this unoccupied field rather than to try to compete with other more favorably situated institutions in their own lines?

The following appropriations are asked for by Professor Baldwin:

For a surveying outfit for underground work.....	\$500 00
For overhauling machinery in basement of Chemical Laboratory .....	100 00
Total .....	\$600 00

#### INSTRUCTION FOR WOMEN.

A petition addressed to Superintendent Raab, as a member of the Board, from the Women's Club, of Peoria, Illinois, signed by some 250 persons, will be laid before you. This asks for the re-introduction of the course in domestic science, or for the establishment of some such course especially for women. You will remember a petition was presented at your September meeting, 1891, for the appointment of one or more women as professors and members of the Faculty. The two subjects may be appropriately considered together, and I need not say will have your careful attention.

#### FEES FOR INSTRUCTION IN MUSIC.

The question of fees for instruction in music for next year needs attention at this time in order that the proper announcement may be made in the catalogue.

May not much more be made of the department of music? Why should it not be included in the regular system of instruction? Is it not easily feasible to make this an important and attractive sub-part of the University?

#### LAW SCHOOL.

I present herewith a petition signed by fifty-two students asking for the establishment of a department of law in the University. There seems to be no valid reason against the location here for the organization of a law school. Colleges of medicine seek the large cities, but law schools flourish outside of the great centers of population. That a course of law would be well attended here cannot be doubted, as indeed the

signatures to this petition indicate. That it would be self-sustaining cannot be so confidently asserted, hence the more need of a judicious consideration of the subject. All will agree that it is an important matter and worthy of the best attention that can be bestowed upon it. The question of a medical department is already before you.

REPORTS AND APPROPRIATIONS.

Reports are to be presented to you from special committees on certificates and illustrated advertising forms, on danger from fire in buildings, and on the commencement exercises. In regard to the latter, the Faculty have voted to recommend, upon the request of the senior class, that instead of the orations from members of the latter, some man of prominence be invited to deliver on commencement day an oration suitable to the occasion.

Further requests for appropriations are asked for as follows:

For the department of architecture, for protecting and exhibiting drawings .....	\$20 60
For veterinary department, for instruments and tools .....	42 25
For department of Greek, for maps, models, etc .....	150 00
For repairs and fittings in art gallery .....	40 00

The following is Professor Morrow's report from the farms:

FARM REPORT.

UNIVERSITY OF ILLINOIS, March 7, 1892.

*Dr. T. J. Burrill, Acting Regent,*

SIR: I have the honor to present the following report of the operations of the University farms for the three months ending March 1:

Receipts .....	\$507 78
Expenditures .....	493 02
Credit balance .....	\$14 76

Little work has been practicable beyond the care of the live stock. In general, this has been in good health and condition.

The barn on the stock farm needs a new roof and repainting, with a few minor repairs. It is also desirable to have some increase of room for accommodation of workmen on the farm. The arrangements since the burning of the old farm house have not been satisfactory.

I respectfully request that such repairs and improvements as are needed may be authorized to be made under the direction of the Farm Committee. The funds may be taken from the farm account.

G. E. MORROW.

I submit herewith the report of the Board of Direction of the 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 statement.

Paper A is a statement of the expenditures for the quarter ending December 31, 1891.

Paper B is a list of the warrants drawn during the same quarter, and with it are the vouchers for audit, No. 78 to No. 142, inclusive.

Paper C is a statement of expenditures for the current quarter up to March 1st.

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

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

PAPER A—STATEMENT OF EXPENDITURES FOR QUARTER ENDING DECEMBER 31, 1891.

	Appropriated.	Expended	Balance.
Buildings and repairs.....	\$25 00	.....	\$25 00
Board expense.....	40 00	.....	40 00
Books and publications.....	250 00	\$250 00	.....
Botanical apparatus.....	10 00	1 75	8 25
Bulletins.....	350 00	51 75	298 25
Chemical apparatus.....	50 00	49 89	11
Fuel and lights.....	100 00	100 00	.....
Incidentals.....	25 00	2 05	22 95
Meteorological apparatus.....	8 55	8 55	.....
Printing and stationery.....	25 00	5 50	19 50
Salaries.....	1,800 00	1,762 50	37 50
Seeds and trees.....	40 00	35 76	4 24
Tools and supplies.....	50 00	10 25	39 75
Wages and teams.....	850 00	810 91	39 09
<i>Sundry—</i>			
Corn and wheat experiments.....	25 00	5 75	19 25
Dairying experiments.....	100 00	32 33	67 67
Drainage.....	25 00	.....	25 00
State Fair exhibit.....	80 00	77 30	2 70
Total.....	\$3,853 55	\$3,204 29	\$649 26

PAPER C—STATEMENT OF APPROPRIATIONS, EXPENDITURES AND BALANCES FOR THE QUARTER ENDING MARCH 31, 1892.

	Appropriated.	Expended	Balances.
Buildings and repairs.....	\$25 00	.....	\$25 00
Board expense.....	40 00	.....	40 00
Books and publications.....	50 00	.....	50 00
Botanical apparatus.....	60 00	\$26 67	33 33
Bulletins.....	750 00	105 81	644 19
Chemical apparatus.....	275 00	148 02	126 98
Fuel and lights.....	100 00	.....	100 00
Incidentals.....	25 00	.....	25 00
Printing, stationery, and postage.....	25 00	.....	25 00
Salaries.....	1,800 00	1,133 34	666 66
Seeds and trees.....	100 00	.....	100 00
Tools and supplies.....	25 00	.....	25 00
Wages and teams.....	800 00	389 07	410 93
<i>Sundry—</i>			
Dairying experiments.....	25 00	6 75	18 25
Corn and wheat experiments.....	25 00	.....	25 00
Total.....	\$4,125 00	\$1,809 66	\$2,315 34

## PAPER D—ESTIMATES.

<i>Quarter Ending March 31, 1892.</i>	
Buildings and repairs.....	\$15 00
<i>Quarter Ending June 30, 1892.</i>	
Buildings and repairs.....	\$500 00
Board expense.....	40 00
Books and publications.....	150 00
Botanical apparatus.....	150 00
Bulletins.....	600 00
Chemical apparatus.....	50 00
Fertilizers.....	50 00
Fuel and lights.....	150 00
Incidentals.....	25 00
Printing, stationery, and postage.....	25 00
Salaries.....	1,900 00
Seeds and trees.....	25 00
Tools and supplies.....	50 00
Wages and teams.....	1,100 00
<i>Sundry—</i>	
Dairying experiments.....	100 00
Corn and wheat experiments.....	100 00
Total.....	\$5,015 00

The Board of Direction will continue work on lines hitherto laid down and asks authority to take up two new experiments:

1. A test of sugar beets, the beets to be raised in at least one place in each of the three grand divisions of the state.
2. Testing varieties of vegetables.

The Board of Direction reports that it has made the following appointments of officers and assistants for the ensuing year, beginning April 1, 1892, and at the salaries named:

Professor George E. Morrow, agriculturist.....	\$300 00
Professor T. J. Burrill, horticulturist and botanist.....	300 00
Professor S. A. Forbes, consulting entomologist.....	.....
Professor D. McIntosh, consulting veterinarian.....	.....
Mr. E. H. Farrington, chemist.....	1,800 00
Mr. G. W. McCluer, assistant horticulturist.....	1,320 00
Mr. G. P. Clinton, assistant botanist.....	850 00
Mr. F. D. Gardner, assistant agriculturist.....	900 00

The Board of Direction also reports that it has re-appointed W. L. Pillsbury, Secretary for the ensuing year at a salary of \$1,500—and to this appointment the consent of the Trustees is asked.

Respectfully submitted,

G. E. MORROW,

*President Board of Direction.*

I ask your approval of the recommendations contained in the foregoing report.

Respectfully submitted,

T. J. BURRILL,

*Acting Regent.*

On motion of Mr. McKay, the Experiment Station report was approved, authority was granted to undertake the new experiments named, appropriations were made as asked, and the re-appointment of W. L. Pillsbury as Secretary of the Board of Direction at a salary of \$1,500 a year was confirmed.

On motion of Mr. McLean, the following men were appointed members of the Board of Direction of the Experiment Station for the year beginning April 1, 1892: E. E. Chester, of Champaign; H. M. Dunlap, of Savoy, and H. B. Gurler, of DeKalb, as representatives of the Illinois State Board of Agriculture, the Illinois State Horticultural Society, and the Illinois State Dairymen's Association, respectively; Messrs. Cobb and Funk, of the Board of Trustees; Professors Burrill, Morrow, and Forbes, and Mr. Farrington. Professor Morrow was appointed President of the Board of Direction, and Messrs. Cobb and Chester were named as the members of the Board who should, with the President as chairman, constitute its executive committee.

The following resolution was passed, on motion of Mr. McLean:

*Resolved*, That the resolution of this Board, passed at its last meeting, directing the Treasurer of the Board to pay bills for the printing and binding of a second edition of the first volume of the Zoölogical Survey of the State of Illinois, on the order of State Board of Contracts, be and is hereby rescinded.

In view of the statement in the Regent's report, that an effort was making by citizens of Urbana and Champaign for a union high school, the following resolution, offered by Mr. Raab, was adopted:

*Resolved*, That the Board of Trustees of the University of Illinois, regards, with favor, the proposition to establish a township high school for the cities of Urbana and Champaign, and promises to such high school every support compatible with the interests of the University and the laws of the state.

It was voted, on motion of Mr. Raab, that a committee of three be appointed to confer with the authorities of the state normal schools, as to how credits should be given to students of the normal schools who should go from them to the University.

The President appointed the Committee on Instruction as such committee.

On motion of Mr. Raab, \$25 was assigned from the state appropriation for apparatus and material for the purchase of four trumpets and target materials for the military department, and \$20 from current funds for the purchase of music for the band.

On motion of Mr. Shawhan, the Business Agent and Lieut. Hills were authorized to expend such an amount as was found necessary in the care of the muskets.

On motion of Mr. McLean, the Board approved the suggestion of Lieut. Hills that for the next term the class in military tactics have two recitations a week.

The request for baths at the gymnasium was referred to the Committee on Buildings and Grounds, to be reported on at the next meeting.

A sum not to exceed \$90 was appropriated from current funds to be expended in sending *The Illini* for the rest of the college year to county superintendents of schools and to high schools.

Mr. Pillsbury reported a donation to the University of 242 volumes and a large number of pamphlets by Mrs. Sarah S. Flagg, of Moro, Ill. These books are from the library of her husband, the late Hon. Willard C. Flagg, who was one of the charter members of this Board, and for many years its Corresponding Secretary.

Messrs. McLean, Raab, and Shawhan were appointed a committee to prepare a resolution acknowledging this donation.

The Board then adjourned to 7:30 o'clock.

### EVENING SESSION.

The report of the Treasurer, Mr. J. W. Bunn, was received, and referred to the Finance Committee, on motion of Mr. Funk:

#### JOHN W. BUNN, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

		<i>Dr.</i>		
1891.				
December	8	To balance.....		\$92,517 12
1892.				
January	2	.. interest on Chicago water bonds.....	\$875 00	
		.. .. Sangamon county bonds .....	400 00	
		.. .. from Treasurer.....	1,650 00	
				2,925 00
	16	.. amount received on account of fuel and lights .....		40 00
	30	.. .. redemption of Nebraska lands ..	\$12 30	
February	10	.. .. ..	56 82	
		.. interest on Champaign school bonds .....		69 12
		.. .. land contract No. 5, Miller & Bashor .....	\$46 00	270 00
		.. .. 6, J. J. Middle on, as- signee .....	41 60	
		.. .. 10, John Ellis, assignee..	72 00	
		.. .. 13, H. J. Willis .....	120 00	
		.. .. 14, W. L. Collins.....	97 60	
		.. .. 18, C. G. Jesse, assignee..	96 00	
		.. .. 19, L. Larsen .....	72 00	
		.. .. 21, Dennis Magner .....	24 00	
		.. .. 23, James Lowe.....	121 00	
		.. .. 28, A. L. Wright, assignee ..	83 20	
		.. .. 30, E. L. Baughman .....	40 00	
		.. .. 31, J. H. Hanson .....	72 00	
		.. .. 32, P. C. O'Brien .....	123 48	
		.. .. 34, J. & H. J. Swoboda..	48 00	
		.. .. 35, J. K. Rush and J. N. Bashor, assignees.....	48 00	
		.. .. 36, W. H. Ruyle, assignee ..	249 92	
		.. .. 37, W. T. Gore .....	251 60	
		.. .. 38, N. R. Simpson, as- signee .....	120 00	
		.. .. 39, J. E. Blickenstaff ....	120 00	
		.. .. 40, Joseph Dezort .....	175 70	
		.. .. 41, Uriah M. Losey, as- signee .....	129 36	
		.. .. 42, W. S. Morton and F. L. Marrs.....	120 00	
		.. .. 43, A. L. Wright, as-ignee ..	139 77	
		.. .. 45, J. Blevins and Miller..	124 48	
		.. .. 46, W. H. Ruyle, assignee ..	199 94	
		.. .. 47, M. Hubka.....	103 90	
		.. .. 53, F. Novotny, assignee..	166 40	
		.. .. 54, B. F. Leiby .....	128 40	
		.. .. 57, C. Anderson.....	72 00	
		.. .. 58, E. Mulhausen .....	115 00	
		.. .. 59, Frank Havlina.....	28 80	
		.. .. 60, James Havlina .....	28 80	

## Treasurer's Report—Continued.

		Dr.		
1892.				
February 10	To interest on land contract No. 61, A. Marquandt.....	\$320 20		
"	" " " " " " " " 63, Riet O. Branton .....	16 14		
"	" " " " " " " " 64, E. Lindquist.....	66 50		
"	" " " " " " " " 65, Josef Cuta & Wenzel			
"	" " " " " " " " Kopacek.....	64 40		
"	" " " " " " " " 66, Peter Larssen.....	56 00		
"	" " " " " " " " 67, T. D. Davidson.....	51 70		
"	" " " " " " " " 68, Frank Topka.....	46 37		
"	" " " " " " " " 69, Berthel Pederson.....	8 57		
"	" " " " " " " " 70, Lars Ingebrightsen....	8 57		
"	" " " " " " " " 71, Thomas P. terson.....	7 84		
"	" " " " " " " " 72, L. A. Treibey.....	37 33		
"	" " " " " " " " 73, Olof Mattson.....	32 43		
"	" " " " " " " " 74, Berthel Pederson.....	5 02		
"	" " " " " " " " 75, Swan J. Hallquist.....	19 83		
"	" " " " " " " " 76.....	19 83		
"	" " " " " " " " 77, William Buethe.....	19 83		
"	" " " " " " " " 78.....	19 83		
"	" " " " " " " " 79, Ole Sorenson.....	17 50		
"	" " " " " " " " 80, William Doering.....	16 33		
February 29	am't rec'd on account buildings and grounds.....	\$47 00		\$4,213 17
"	" " " " " " " " fuel and lights.....	71 43		
"	" " " " " " " " mechanical department.....	405 11		
"	" " " " " " " " architectural department.....	1,684 55		
"	" " " " " " " " agricultural department.....	473 25		
"	" " " " " " " " horticultural department.....	70 70		
"	" " " " " " " " laboratories.....	666 97		
"	" " " " " " " " Minnesota and Nebraska lands.	35 00		
"	" " " " " " " " Griggs farm, rent.....	320 00		
"	" " " " " " " " University students' fees.....	3,713 00		
"	" " " " " " " " preparatory year.....	750 00		
"	" " " " " " " " music fees.....	197 00		
				8,439 04
				\$108,473 45
		Cr.		
1892				
February 29	By amount paid on account Board expense.....	\$188 32		
"	" " " " " " " " salaries.....	2,819 08		
"	" " " " " " " " buildings and grounds.....	608 66		
"	" " " " " " " " fuel and lights.....	1,537 16		
"	" " " " " " " " stationery and printing.....	292 96		
"	" " " " " " " " preparatory year.....	483 32		
"	" " " " " " " " mechanical department.....	406 69		
"	" " " " " " " " architectural department.....	1,858 98		
"	" " " " " " " " agricultural department.....	652 33		
"	" " " " " " " " horticultural department....	149 05		
"	" " " " " " " " military department.....	19 46		
"	" " " " " " " " laboratories.....	747 70		
"	" " " " " " " " library and apparatus.....	12 59		
"	" " " " " " " " incidental expense.....	164 45		
				9,940 75
	By amount paid on account water supply.....	\$100 00		
"	" " " " " " " " furniture and fixtures.....	65 61		
"	" " " " " " " " gymnasium.....	8 15		
"	" " " " " " " " lumber sheds, etc.....	923 49		
"	" " " " " " " " Minnesota and Nebraska			
"	" " " " " " " " lands.....	48 80		
"	" " " " " " " " farm barn.....	3 83		
"	" " " " " " " " Academy society.....	55 00		
"	" " " " " " " " flag-staff and flags.....	226 58		
"	" " " " " " " " premium on bonds.....	630 00		
"	" " " " " " " " University extens' n' lectures	57 21		
"	" " " " " " " " military scholarships.....	60 00		
"	" " " " " " " " electric clock.....	45 13		
"	" " " " " " " " Illini press, type, etc.....	355 71		
"	" " " " " " " " flag raising.....	4 00		
"	" " " " " " " " front doors.....	5 95		
"	" " " " " " " " accredited schools.....	14 10		
"	" " " " " " " " music fees.....	197 00		
				2,800 56

Treasurer's Report—*Concluded.*

		<i>Cr.</i>			
		<i>State Appropriations—</i>			
1882.					
February 29	By amount paid on account buildings and grounds.....		\$243 51		
	“ “ apparatus and material.....		185 46		
	“ “ mechanical and arch't shops		561 30		
	“ “ books and publications.....		864 35		
	“ “ cabinets.....		15 65		
	“ “ expenses of instruction.....		7,049 82		
	“ “ heating Military Hall.....		2,462 08		
	“ “ farm barn.....		243 24		
	“ “ metallurgical laboratory....		73 41		
	“ “ natural science building....		9,934 08		
	“ “ State Laboratory of Natural History.....		1,283 03		
	“ “ United States fund.....				\$22,915 93
					11,344 95
					\$47,002 19
	Balances—Current funds.....		\$9,871 22		
	State appropriations.....		38,944 45		
	United States fund.....		12,655 59		
					61,471 26
					\$108,473 45

Urbana, March 8, 1892.

JOHN W. BUNN, *Treasurer.*

The report of the Business Agent, Professor S. W. Shattuck, was received.

## BUSINESS AGENT'S REPORT.

UNIVERSITY OF ILLINOIS, March 8, 1892.

*S. A. Bullard, Esq., President Board of Trustees, University of Illinois,*

SIR: I have the honor to hand you herewith the financial statements and report due from me for the three months ending February 18, 1892.

Paper A is a statement of the current expenses and receipts for that time.

Paper B is a showing of the state appropriations, February 29, 1892.

Paper C gives the condition of the United States Fund, on February 29, 1892, for the three years ending June 30, 1892.

Paper D is a list of vouchers presented for audit, being 1 to 325.

Paper E is an estimate of receipts and expenses for the six months ending September 1, 1892, from current funds.

Paper F is a list of appropriations the Board is asked to make at this time for the three months ending June 1, 1892.

Your attention is also drawn to the balances in the state appropriations, as it is desirable to expend them by June 1st, since the proper vouchers should be had before July 1st.

Paper G is an estimate for a fuel gas plant for the University. I asked Professor Palmer to get it. I believe the matter should be looked into, in the interest of economy.

Respectfully submitted,

S. W. SHATTUCK, *Business Agent.*



## PAPER A—CURRENT APPROPRIATIONS.

	Appropriated	Receipts also appropriated.	Expended.	Balance.
Board expense.....	\$424 04	.....	\$188 32	\$235 72
Salaries for instruction.. { Current..	16,095 72	.....	{ 1,164 50	4,179 90
{ State.....		.....	{ 7,049 82	
{ U.S. fund		.....	{ 3,701 50	
Salaries for services.....	1,674 50	.....	1,654 58	19 92
Buildings and grounds.....	622 10	\$47 00	608 66	60 44
Fuel and lights.....	2,077 03	111 43	1,537 16	651 30
Stationery and printing.....	424 38	.....	292 96	131 42
Mechanical department.....	70 87	405 14	406 69	69 32
Architectural.....	447 25	1,684 55	1,858 98	272 32
Agricultural.....	576 78	473 25	652 33	397 70
Horticultural.....	100 39	70 70	149 05	22 04
Military.....	52 30	.....	19 46	32 84
Laboratories.....	254 22	666 97	747 70	173 49
Library and apparatus.....	23 92	.....	12 59	11 33
Incidentals.....	235 06	.....	164 45	70 61
<i>Sundries—</i>				
Water supply.....	100 00	.....	100 00	.....
Furniture and fixtures.....	158 68	.....	65 61	93 07
Gymnasium.....	95 70	.....	8 15	87 55
Lumber sheds, etc.....	923 49	.....	923 49	.....
Minnesota and Nebraska lands.....	52 47	35 00	48 80	38 67
Farm barn.....	989 00	.....	3 83	985 17
Academy society.....	68 46	.....	55 00	13 46
Flag-staff and flags.....	228 33	.....	226 58	1 75
Premium on bonds.....	630 00	.....	630 00	.....
University extension lectures.....	500 00	.....	57 21	442 79
Bulletins, etc.....	150 00	.....	.....	150 00
Military scholarships.....	60 00	.....	60 00	.....
Electric clock, etc.....	180 00	.....	45 13	134 87
Illini, press, type, etc.....	400 00	.....	355 71	44 29
Flag raising.....	35 00	.....	4 00	31 00
Front doors, etc.....	300 00	.....	5 95	294 05
Accredited schools.....	100 00	.....	14 10	85 90
Preparatory year fees.....	.....	750 00	483 32	266 68
Music fees.....	.....	197 00	197 00	.....
University students' fees.....	.....	3,718 00	.....	3,718 00

## PAPER B—STATE APPROPRIATIONS.

	Received.	Expended.	Balance.	Assigned.
Taxes on Minnesota lands.....	\$1,511 24	\$1,511 24	.....	.....
Buildings and grounds.....	2,500 00	2,486 34	\$13 66	\$13 66
Apparatus and material.....	1,500 00	922 41	577 59	427 79
Mech. and Arch. shops.....	2,000 00	736 91	1,263 09	605 89
Books and publications.....	1,000 00	936 06	63 94	63 94
Cabinets.....	500 00	74 15	425 85	425 85
Expenses of instruction.....	20,000 00	11,649 72	8,350 28	8,350 28
Heating Military Hall.....	3,500 00	2,465 86	1,034 14	1,034 14
Farm barn.....	2,500 00	2,393 31	106 69	106 69
Furniture.....	1,000 00	347 73	652 27	27 27
Natural science building.....	30,000 00	14,251 86	15,748 14	15,748 14
Furniture for same.....	5,000 00	.....	5,000 00	.....
Metallurgical laboratory.....	4,000 00	3,479 95	520 05	20 48
	\$75,011 24	\$41,255 54	\$33,755 70	\$26,824 13
Illinois State Laboratory of Natural History.....	9,650 27	4,461 52	5,188 75	1,063 68

## PAPER C—UNITED STATES FUND.

	Received.	Expended.	Balance.	Assigned.
<i>Year ending June 30, 1890.</i>				
Salaries for instructors.....	\$7,500 00	\$7,500 00	.....	.....
Electric laboratory .....	2,500 00	2,500 00	.....	.....
Mechanical .....	1,000 00	1,000 00	.....	.....
Chemical .....	1,000 00	1,000 00	.....	.....
Civil engineering.....	500 00	500 00	.....	.....
Botany and physiology .....	500 00	500 00	.....	.....
Natural history .....	2,000 00	1,490 51	\$509 49	\$410 09
	\$15,000 00	\$14,490 51	\$509 49	\$410 09
<i>Year ending June 30, 1891.</i>				
Salaries for instruction.....	8,000 00	8,000 00	.....	.....
Physical laboratory .....	1,175 00	1,175 00	.....	.....
Electric .....	500 00	500 00	.....	.....
Chemical .....	610 00	610 00	.....	.....
Architectural department.....	1,430 00	816 33	613 67	613 67
Mechanical .....	520 00	520 00	.....	.....
Mineralogical and geological labora-				
tories .....	60 00	.....	60 00	60 00
Botanical laboratory.....	50 00	40 57	9 43	9 43
College of engineering.....	700 00	284 59	415 41	415 41
Civil engineering.....	955 00	612 08	342 92	342 92
Library .....	2,000 00	1,049 93	950 07	950 07
	\$16,000 00	\$13,608 50	\$2,391 50	\$2,391 50
<i>Year ending June 30, 1892.</i>				
Salaries for instruction.....	8,500 00	3,701 50	4,798 50	4,798 50
Chemical and civil engineering desks..	120 00	120 00	.....	.....
Library .....	2,000 00	.....	2,000 00	2,000 00
Architectural department .....	182 00	154 37	27 63	27 63
Mechanical .....	1,100 00	999 53	100 47	100 47
Civil engineering .....	260 00	.....	260 00	260 00
Physical laboratory.....	200 00	200 00	.....	.....
Electrical .....	2,070 00	2,070 00	.....	.....
General .....	2,568 00	.....	2,568 00	.....
	\$17,000 00	\$7,245 40	\$9,754 60	\$7,186 60

The vouchers, with Paper D, were referred to the Finance Committee on motion of Mr. Funk.

Paper G, with regard to a gas plant, was referred to the Committee on Buildings and Grounds.

## MINNESOTA LANDS.

The committee on Minnesota lands made the following report:

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

GENTLEMEN: Your committee on Minnesota lands begs leave to report what it has done since your last meeting.

The committee has taken from Mr. F. Topka an assignment of his contract for N. W.  $\frac{1}{4}$ , 6, 116, 32, and has had this assigned contract recorded in Renville county. At the same time Mr. Topka furnished an abstract of the title to the land, which showed that he had not in any way conveyed or encumbered the land. When this had been done a contract was given him, bearing date January 2, 1892, for the N. W.  $\frac{1}{4}$ , 6, 116, 34, Renville, 169.13 acres, at \$10 per acre. On this purchase a credit of the amount paid on his first contract, \$387.57, was allowed him, and in addition he paid \$35.25 on account of the excess in acreage in the tract conveyed by the second contract.

By a letter to this Board from the General Land Office, dated March 29, 1884, information was given that there was a conflict as to the ownership of the S. E.  $\frac{1}{4}$ , 24, 124, 36, Pope county, Minnesota, it appears that by the records of the Land Office, the plat shows this S. E.  $\frac{1}{4}$  entered by this University, and that the S. W.  $\frac{1}{4}$  of the same section was entered by agricultural college scrip, issued to Massachusetts. The tract book shows the S. E.  $\frac{1}{4}$  entered by Massachusetts scrip and the S. W.  $\frac{1}{4}$  entered by this University; and, to complete the confusion, patents were subsequently issued to both parties for the S. E.  $\frac{1}{4}$ . Some correspondence was had with regard to the matter at that time, and the record of the Board meeting of November 9, 1886, shows that the Committee on Nebraska and Minnesota Lands was authorized to take such steps as should be necessary to protect the interests of the University.

April 20, 1887, Dr. Peabody visited the Land Office in Washington, filed a complete statement of the case in the name of the committee, and asked that, inasmuch as several conveyances of the S. E.  $\frac{1}{4}$  had been made in good faith under the Massachusetts patent, and as the holder under that patent was in possession of the land and had made considerable improvements, the University be allowed to surrender its patent to the S. E.  $\frac{1}{4}$ , and to re-locate its scrip upon the S. W.  $\frac{1}{4}$ , and receive a patent therefor.

Not having heard further from the case, Dr. Peabody wrote the Land Office with regard to it June 15, 1891. This letter was not answered, and February 5th last Mr. Pillsbury wrote Hon. S. T. Busey, asking him to visit the Land Office and ascertain what disposition, if any, had been made of the case. A few days later Col. Busey wrote that January 13, 1892, the case had been decided in favor of the University, and that the decision had been transmitted February 3d to the local land office. Application was at once made to the General Land Office for a copy of the decision. In reply the following paper was received last Saturday:

DEPARTMENT OF THE INTERIOR.

R. W.  
L. R. S.

Vol. 14,703.

WASHINGTON, January 13, 1892.

FRANK M. EDDY }  
vs. } *Timber culture entry—Act of March 3, 1891, Section 1.*  
UNITED STATES, }

Copy of so much of the decision of the First Assistant Secretary in the above case as relates to the University of the State of Illinois in the matters relating to the S. E.  $\frac{1}{4}$  and S. W.  $\frac{1}{4}$  of section 24. in township 124 N., range 36 W. 5th P. M.

"Upon the surrender of the patent issued to said University, with a relinquishment endorsed thereon, together with a quit-claim deed from said University, recorded in the office for the record of deeds in the county where said land lies, with a certificate from the proper recording officer of said county, that the said University has not transferred or encumbered the title acquired by said patent, said location of college scrip (No. 1491) may be canceled, and said scrip may be located upon said S. W.  $\frac{1}{4}$ , and patent may issue immediately thereupon to said University. Your judgment is affirmed."

GEO. CHANDLER,  
*First Assistant Secretary.*

The committee assumes that the decision will be accepted by the Board, as both Dr. Peabody and Professor Shattuck agree, from personal inspection, that the S. W.  $\frac{1}{4}$  is as valuable as the S. E.  $\frac{1}{4}$ , and it recommends that the President and Secretary of the Board be directed to surrender the patent for the S. E.  $\frac{1}{4}$ , with relinquishment endorsed thereon, and to

make to the United States a quit-claim deed for the same; and that your committee on Minnesota lands be empowered to take all further steps necessary to secure a patent for the S. W.  $\frac{1}{4}$  of 24, 124, 36, Minnesota.

Respectfully submitted,

S. A. BULLARD,	} Committee on Minnesota Lands.
S. W. SHATTUCK,	
W. L. PILLSBURY.	

On motion of Mr. Raab, the report was approved, and the President and Secretary were authorized to relinquish the patent and quit-claim the S. E.  $\frac{1}{4}$  24, 124, 36, Pope county, Minn., to the United States, and the committee was instructed to take measures to secure a patent for S. W.  $\frac{1}{4}$  of said section 24.

The Regent and the President were appointed a committee with whom the members of the Christian Associations of the University might confer in regard to the building they propose to erect.

On motion of Mr. Graham \$500.00 was appropriated from the U. S. fund to meet the deficit in appropriations made for the electric laboratory.

The matter of lighting the University buildings by electricity was referred to the Committee on Buildings and Grounds, to be reported on at the next meeting of the Board.

Permission was given the Philomathean Society to put in a wire for lighting their hall by electricity, to be used on the night of March 18th only, the wire to be put in under the direction of Professor Stratton.

On motion of Mr. McLean, \$150.00 was appropriated from current funds for putting in a good vitrified brick floor in the store room of the Chemical Laboratory.

On motion of Mr. Funk, \$50.00 was appropriated from current funds for shelving in the same room.

On motion of Mr. Graham, \$350.00 was appropriated from the U. S. fund for three desks, each for eight students, in the chemical laboratory.

On motion of Mr. McKay, there was appropriated from state appropriation for mechanical and architectural shops—

For a pump.....	\$225 00
For water motors.....	80 00
Water meters.....	140 00
Other apparatus.....	55 00
Specimens for tests.....	25 00
Total.....	\$525 00

On motion of Mr. McLean, it was ordered that this sum be spent under the supervision of the President, the Regent, and Professor Talbot.

The matter of a draughting room for the mechanical engineering department was referred to the Committee on Buildings and Grounds, to be reported at the next meeting.

On motion of Mr. McLean, the question of changes in the courses of study was referred to the Executive Committee of the Faculty and the Committee on Instruction, with power to act.

While the subject of graduate courses and fellowships was under consideration, the Board adjourned to meet at 8 o'clock a. m.

# SESSION OF WEDNESDAY MORNING.

The Board met pursuant to adjournment, the same members being present as on the preceding day.

The question of graduate courses and fellowships was referred to the Executive Committee of the Faculty and the Committee on Instruction, with power to act, on motion of Mr. Raab.

The committee appointed to draft resolutions with regard to Mrs. Flagg's donation, made the following report, which was adopted:

WHEREAS, Mrs. Sarah S. Flagg, of Moro, Ill., widow of the late Hon. Willard C. Flagg, formerly a member of this Board, has kindly and generously donated to this University 242 volumes of rare and valuable books and a large number of pamphlets; therefore be it

*Resolved*, That the thanks of this Board be, and they are hereby, tendered to Mrs. Flagg for these books; and that they be received and duly entered upon our library records as the donation of Mrs. Flagg from the library of Willard C. Flagg.

*Resolved*, That these resolutions be entered upon our record, and that a copy of them be sent to Mrs. Flagg.

ALEX. MCLEAN,  
HENRY RAAB, } *Committee.*  
G. R. SHAWHAN,

By invitation, the committee of the Faculty on public exercises and the committee of the Alumni Association were received by the Board, and the question of celebrating properly at commencement time the twenty-fifth anniversary of the founding of the University and the twentieth anniversary of the Alumni was made the subject of a general discussion.

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

*Resolved*, That all the necessary expenses incident upon arranging to commemorate suitably by exercises during commencement week the quarter centennial anniversary of the University and the twentieth of the Alumni be borne by the University; and that a committee of this Board be appointed, with power to act, to coöperate with a committee of the Faculty and a committee of the Alumni.

Messrs. McLean, Morgan, Graham and the President were appointed as this committee.

On motion of Mr. Raab, it was voted that the Faculty may for this year secure some distinguished person to deliver an address at commencement and provide for other exercises suitable to the occasion, as it may deem best.

The question of establishing courses in Italian and Spanish was referred to the Committee on Instruction and the executive committee of the faculty, on motion of Mr. Raab.

On motion of Mr. McLean, it was voted that especial attention be given to coal mining in the course in mining engineering, as suggested by Professor Baldwin.

The following appropriations were made for the mining engineering department:

From state appropriation for metallurgical laboratory—

For surveying outfit.....	\$500 00
---------------------------	----------

From U. S. fund—

For overhauling machinery plant.....	\$100 00
--------------------------------------	----------

The question of establishing a course of study in domestic science, and a communication received by Mr. Raab from the Women's Club, of Peoria, were referred to the committee on instruction and the Regent, on motion of Mr. McLean.

The Board then took a recess to go to chapel exercises.

When the Board reassembled Miss Katherine L. Kennard, of Champaign, was given an opportunity to present her reasons in favor of a course in domestic science, or home economy, to be in charge of a woman who should be a full professor, and some suggestions as to the course.

On recommendation of the Committee on Instruction, it was voted that for next year the fees in music should be

Instrumental music—

Instruction, term of ten weeks, two lessons a week.....	\$15 00
Term of ten weeks, one lesson a week.....	8 00

Vocal music and voice culture—

Instruction, term of ten weeks, two lessons a week.....	\$20 00
Term of ten weeks, one lesson a week.....	12 00

With regard to establishing a law school, Mr. McLean offered the following resolution, which was adopted:

WHEREAS, The matter of establishing a law department in the University has been presented by members of the senior and other classes of this institution; and,

WHEREAS, Though the necessary funds are not at present available, we believe the time is not remote when such a department should be established, and deem it our duty to work earnestly to obtain legislative aid for instruction in law; therefore, be it

*Resolved*, That the committee on instruction be and is hereby requested to inquire at once into the power and practicability of this Board's appropriating from our present income the necessary funds to establish on a sufficient foundation such a department; and further to report a plan for such legislative or other aid as they may deem best for the furtherance of this object.

Twenty dollars was assigned from the state appropriation for apparatus and material for the purchase of frames for drawings, for the architectural department.

For the purchase of instruments and tools for the veterinary department, \$42.25 was assigned from the U. S. fund.

From current funds, \$40 was assigned for some repairs, etc., in the art gallery.

On motion of Mr. Raab, \$150 was assigned from the state appropriation for apparatus and material for the purchase of maps, photos, and lexicons for the use of classes in Greek, the money to be expended by the Business Agent and Professor Moss.

On motion of Mr. McKay, \$60 was appropriated from current funds for the payment of the military scholarships this term.

From current funds, \$200 was appropriated for commencement expenses.

Authority was given the Business Agent to use the balance of the state appropriation for furniture in purchasing chairs for the drill hall.

On motion of Mr. Raab, Mr. J. H. Powell's salary was made \$80 a month from March 1st, to the end of the college year, June 30th.

On motion of Mr. Graham, appropriations were made for the three months ending May 31st, as follows, as asked for by the Business Agent in his Paper F:

Board expense.....	\$250 00
Salaries for instruction.....	13,260 00
Salaries for services.....	1,565 00
Buildings and grounds.....	800 00
Fuel and lights.....	750 00
Stationery, printing, and postage.....	400 00
Catalogues and advertising.....	500 00
Mechanical department.....	200 00
Architectural department.....	200 00
Agricultural department.....	200 00
Horticultural department.....	100 00
Laboratories.....	400 00
Library and apparatus.....	100 00
Incidentals.....	250 00
Water supply.....	100 00
Furniture and fixtures.....	100 00
Gymnasium.....	50 00
Farm barn.....	985 17
University extension lectures.....	442 79
Bulletins, etc.....	150 00
Electric clock, etc.....	134 87
<i>Illini</i> , press, type, etc.....	44 29
Front doors.....	294 05
Accredited schools.....	85 90
Total.....	\$21,362 07

On motion of Mr. Graham, assignments of funds of the State Laboratory of Natural History were made for the quarter ending June 30, 1892, as follows:

For field, office, and incidental expenses.....	\$375 00
For salaries and assistance.....	875 00
For publication of bulletins.....	125 00

On motion of Mr. Shawhan, the Director of the State Laboratory of Natural History was authorized to provide, from the funds of the State Laboratory available for that purpose, and, as opportunity may arise, for work in the library of the laboratory and for assistance in the preparation of his entomological reports, at the rate of \$1,000 a year, for that purpose.

The Board then took a recess to 1:30 p. m.

#### SESSION OF WEDNESDAY AFTERNOON.

The Executive Committee made the following report:

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

GENTLEMEN: At a meeting of the Executive Committee of the Board of Trustees, held in Chicago January 14, 1892, at which all the members were present, the committee made appropriations as follows:

For payment of expenses of examiners of high schools for accredited list.....	\$100 00
For the necessary expenses of the State Laboratory of Natural History, for six months ending March 31, 1892—	
For field, office, and incidental expenses .....	750 00
For salaries and assistance.....	1,750 00
For publication of bulletins.....	250 00

Respectfully submitted,

S. A. BULLARD, *Chairman.*

W. L. PILLSBURY, *Secretary.*

The report was confirmed.

On the proposition of affiliation with the University by the Chicago College of Physicians and Surgeons, which was referred to the Executive Committee at the last meeting of the Board, the following report was made:

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

GENTLEMEN: Your Executive Committee, to which was referred the proposition of the College of Physicians and Surgeons of Chicago, will say that your Committee visited Chicago and met the members of the committee of the College, and examined the facilities of the College for instruction in medicine and surgery. We were well pleased with the institution, and believe that it is capable of doing thorough work.

Your chairman submitted to the Attorney General of the state the question of the legality of accepting the proposition of the College. The letters are submitted as a part of this report.



SPRINGFIELD, ILLINOIS, Feb. 19, 1892.

*Hon. George Hunt, Attorney General of the State of Illinois,*

DEAR SIR: At the regular meeting of the Board of Trustees of the University of Illinois in December last, a representative of the College of Physicians and Surgeons, of Chicago, appeared before the Board and made the following proposition, which was referred to the Executive Committee of the Board. Before making its report the Committee desires the opinion of the Attorney General upon the legal questions involved in the acceptance of the proposition.

PROPOSITION OF THE COLLEGE OF PHYSICIANS AND SURGEONS.

"That the College of Physicians and Surgeons be immediately made an affiliated institution of the University of Illinois, and that it be termed the Medical Department of the University of Illinois; that one of the present Board of Directors of the College of Physicians and Surgeons immediately resign and his place be filled by the appointment of one of the Board of Trustees of the University of Illinois; that the University undertake the teaching of some of the branches in the College and receive stock in the corporation in proportion to the amount of money expended; that the University receive also as a bonus a certain amount of stock each year in the existing corporation, say \$4,000 or \$2,000, as the Board of Directors of the College of Physicians and Surgeons and the Trustees of the University may mutually agree upon; that the Board of Trustees of the University be represented in the Board of Directors of the College in proportion to the amount of stock which is held by them. That is to say, the University becomes a partner in the Medical College until such time as it secures the entire control of the institution."

It was also stated that the College of Physicians and Surgeons is a stock company with a capital of \$60,000, of which \$44,000 is paid up.

The committee would like answers to the following questions:

- (1.) Will the laws of the state permit the Board of Trustees to accept the proposition of the College of Physicians and Surgeons, as stated?
- (2.) If not, how must the proposition be modified so that the Board of Trustees may legally accept it?

I am, sir, your obedient servant,

S. A. BULLARD,

*Chairman of Executive Committee.*

SPRINGFIELD, ILLINOIS, March 3, 1892.

*S. A. Bullard, President Board of Trustees, University of Illinois, Springfield, Ill.,*

DEAR SIR: Your favor of the 19th ult., submitting for my consideration a proposition made to the Board of Trustees of the University of Illinois by the College of Physicians and Surgeons, and asking whether the laws of the state of Illinois permitted the Board of Trustees to accept the proposition as stated, is at hand.

This proposition, in substance, proposes a partnership of the College of Physicians and Surgeons with the University of Illinois upon terms stated therein, and, in my opinion, the Board of Trustees have no authority to enter into such partnership or to lend the aid of the University in any way to the success of a private enterprise. I see no way in which the proposition could be modified so as to retain its present character and come within the power of the Board of Trustees.

Section 6 of the "Act to regulate the Illinois Industrial University," approved May 7, 1873, beginning on page 25 of the pamphlet submitted by you, provides "that all persons attending the said University shall be taught and shall study such branches of learning as are related to agriculture and the mechanic arts, and as are adapted to promote the liberal and practical education of the industrial classes in the several pur-

suits and professions of life, without excluding other scientific and classical studies, and including, for all male students, military tactics."

In my opinion, in establishing the course of studies, the Board of Trustees would be limited to the provisions of this section, but they will be the judges of whether or not the proposed studies are within this section.

Very respectfully,

GEORGE HUNT, *Attorney General.*

Your Committee finds that this Board has no legal power to entertain and accept the proposition of the College of Physicians and Surgeons, and recommends that the College be notified of our legal powers in this matter. Your Committee feels that a medical department, located in Chicago, would be a most valuable and substantial enlargement of the work of the University, and hopes that the establishment of such a department may not be long deferred.

S. A. BULLARD,	} <i>Executive Committee..</i>
EMORY COBB,	
LAFAYETTE FUNK,	

The report was approved for record.

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 make the following report:

Your Committee is gratified to report the progress in the construction of the natural science building. The work is doing in a good and substantial manner, entirely satisfactory to the Committee. The materials which the contractor is using are also entirely satisfactory. We have appointed Mr. S. P. Sutton permanent superintendent of the building, at a salary of one hundred dollars per month by the authority given us at the last meeting. We recommend that your Committee on Buildings and Grounds be authorized to make a contract with Mr. Valentine Jobst, contractor of the new building, that for a consideration of \$250 dollars, he turn over to the Board of Trustees, at the close of his contract for the construction of the new building, the building complete, without loss or damage by fire or otherwise.

The new front doors to University Hall have been put in place, though the work is not fully completed. We recommend the appropriation from current funds of an additional amount of \$25 to complete the same.

The heating of Military Hall is not yet completed, and will be reported upon at a future meeting.

The dry kilns and lumber sheds for the architectural shops are completed, and are very satisfactory. We ask for an additional appropriation of \$85 for that work.

The boiler and engine for the electrical laboratory were purchased, and have been put in in a very excellent way. There is some additional expense for labor and extra fittings not contemplated in the appropriation. This is fully explained in the report of the Regent and Professor Stratton.

Professor Stratton shows us that all the purchases of machinery for the electric laboratory have been at reduced rates, and he has also secured donations as follows, for which we recommend that he make suitable acknowledgment.

Name of Article.	By Whom Presented.	Value.
Ford water heater for boiler .....	Wm. Baragwauth & Son, Chicago.....	\$266 25
Pump for boiler .....	H. Worthington Pump Co., Chicago.....	100 00
Steam separator for engine .....	Stratton Separator Co., N. Y. ....	50 00
Electric current meter.....	W. A. Martin.....	31 00
100 assorted carbons .....	National Carbon Co., Cleveland, O. ....	15 00
15 assorted carbons .....	Washington Carbon Co., Washington, Pa..	2 25
1 doz. 16 c. p. lamps .....	Beacon Vacuum Pump Co., Boston.....	6 00
3 lamps and 2 sockets (1-150 c. p. lamp)...	Sawyer Mann Electric Co., N. Y. ....	5 25
5 switches and 6 sockets .....	H. T. Paiste.....	3 50
6 sockets .....	Union Electric Co.....	1 80
2 lamps .....	Economic Electric Co., Boston.....	1 00
2 Perkins lamps.....	Clafin & Kimball.....	1 00
6 Packard lamps (1-50, 2-32, 3-16 c. p.)...	New York and Ohio Co., N. Y. ....	5 00
3 sockets.....	Electric Eng. and Supply Co.....	90
4 Gonda batteries.....	Leclanche Battery Co., N. Y. ....	4
2 dry batteries.....	Heimer & Anderson.....	
2 dry batteries.....	Thompson & Robertson.....	
2 sal amoniac cells.....	Law Telephone Co.....	
Case of insulated wire.....	New York Insulated Wire Co., N. Y.....	
Total.....		502 45

The machines for the architectural shops were not fully satisfactory, but we hope to succeed in completing the purchases in a short time in a way satisfactory to the professor of architecture.

We append the report of the architect of the new building, Professor N. C. Ricker:

#### ARCHITECT'S REPORT.

UNIVERSITY OF ILLINOIS, URBANA, ILL., March 7, 1892.

*To the Committee on Buildings and Grounds of the Board of Trustees.*

GENTLEMEN: I beg leave to present the following report in regard to the matters placed in my charge:

1. The natural science building is now sufficiently advanced to show something of its external effect when completed. The common bricks have been resorted to as they were used in the building, and none have been received from the manufacturers since your meeting to settle the soft brick question. I do not fear any further difficulty. The pressed bricks are of the kind and quality specified, and have been properly laid. The ornamental and pink buff bricks for panels, the frieze, etc., have probably been ordered already. Some window frames were rejected at first, but those since delivered are quite satisfactory.

The Bedford stone work of basement, steps, water table, etc., is finished, except the external jointing which will be done in assured warm weather. The front steps make an especially good job, as will be evident on inspection.

Mr. S. P. Sutton, of Springfield, has been appointed superintendent of the work on the building, subject to your approval, and his work has been very satisfactory, as he has an excellent knowledge of construction of all kinds, plenty of nerve and decision, and the power of enforcing his decisions without unnecessary friction. I believe him to be just the man for permanent appointment.

I have found it necessary and advisable to make a few changes in the ventilating registers, in omitting some iron lintels and adding others, which I shall be glad to explain at length to your committee, whenever requested to do so.

In accordance with instructions received from your chairman, I have provided a corner stone with date, the stone and work donated by the Peoria Marble Works, per Mr. H. Isle; also a copper box to be set therein, thus making all ready for the ceremony of setting the corner-stone on Wednesday next.

It will materially improve the external appearance of the building to cover the dormer windows of the roof by slated hip roofs instead of the tinned deck roofs shown on drawings and specified for sake of economy. The proposed roofs are shown on the last perspective made of the building, photographs of which have doubtless been seen by the committee. I therefore request authority to arrange with the contractor for this change, provided that it can be done at a reasonable cost.

2. The architectural lumber shed and dry kiln has been completed at a slight excess over the appropriation, as stated fully in Mr. Parker's report.

3. Machines for architectural shops have been purchased, as described in my last report. Two of them are very satisfactory in all respects, but the third is very much otherwise, and will be returned to the manufacturers, if possible.

4. The front doors of University Hall are not quite finished. The contract for wood-work, sash and glass complete, delivered in Champaign, was let to the Truesdale Manufacturing Co., of Peoria, at \$222, including \$9 extra for beveled plates in doors, being the lowest of the three bids received. This work was executed in the best manner, as you have doubtless noticed, and is now fitted in place. The contract for the hardware was let to the Yale & Towne Manufacturing Co., of Chicago, at \$70 for springs, bronze hinges, lock, extension bolt, push plates, etc., all of bronze, old copper finish, and ornamented where visible. Only the springs and hinges have yet been received, the remainder being still on the way from Connecticut. The cost of the job complete will exceed the appropriation therefore by \$15 or \$20. I therefore request that \$25 be added to the original appropriation for this purpose. Cheaper and poorer hardware might have been used to bring the cost under the limit, but I believe that you would not wish the job to be spoiled in that way, and it is certainly very reasonable in price, in comparison with the cost of city work of similar quality and character.

5. The heating of the Military Hall has been delayed by several causes, which I will state to your committee in full, when desired to do so. The apparatus would have been tested last week, but my illness prevented my doing this. But these tests will probably be completed to-morrow. There was at first considerable difficulty in having the boiler properly set, but this was at last well done. I believe Maltby & Wallace have endeavored to do a good job throughout, furnishing good materials and employing good workmen, so that the completed work is certainly equal at least to the average job in construction and efficiency, though I still doubt whether the apparatus will entirely satisfy all the conditions of the guarantee and contract. There is no apparent loss of heat in the ground trench between the buildings. I have the proper certificate of inspection of the boiler, which has withstood an hydraulic pressure of 150 lb. per square inch. There has also been about 80 lb. steam pressure on it, and about 45 lb. in the heating apparatus, the difference being caused by the pressure reducing valve. I will report the results of the tests of the apparatus, as soon as completed, for your consideration and action.

Very respectfully submitted,

N. CLIFFORD RICKER.

We recommend that Professor Ricker be paid \$350 on account of his contract.

Respectfully submitted,

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

The report was approved and the appropriations asked for contract with Mr. Jobst, \$250.00; for front doors, \$25.00; and for lumber sheds, \$85.00, were made.

It was ordered that \$350.00 be paid Professor Ricker on his contract as architect.

The Committee on Instruction recommended the appointment of Mr. John P. Gordy, of Athens, Ohio, to the professorship of psychology, at a salary of \$2,000 a year, and the appointment was made on motion of Mr. McLean, the salary to begin with the next term, if Professor Gordy should enter upon service at that time; if not, to begin with September 1, 1892.

Professor Burrill and Mr. Shawhan, to whom had been referred at the last meeting the appointment of a professor of mechanical engineering, reported, recommending for the place Mr. C. W. Scribner, of Ames, Iowa. The appointment was made, and the salary fixed at \$2,000 a year, the term of service to begin September 1, 1892.

The Board then took a recess to attend the exercises at the laying of the corner stone of Natural History Hall. The address on this occasion was made by President T. C. Chamberlain, of the University of Wisconsin. The corner stone was laid by Mr. Raab, of this Board.

The committee to whom was referred the matter of devising measures of protection against loss and danger from fire, reported progress and asked for further time, which was granted.

On motion of Mr. Raab, the Business Agent was directed to purchase 6 dozen hand fire grenades to be distributed in the different buildings.

On motion of Mr. Shawhan, the Business Agent was directed to have the doors of the society rooms on the fourth floor of the main building hung to open outwards.

On motion of Mr. McKay, the subject of new buildings was referred to the Committee on Buildings and Grounds, the Finance Committee, and the Executive Committee of the Faculty, with instructions to prepare preliminary plans and estimates, to be presented at the June meeting of the Board.

The committee to which was referred at the last meeting the question of diplomas for accredited schools, etc., reported estimates as follows:

100 diplomas .....	\$55 00
500 certificates .....	4 00
8,000 circulars, illustrated, and postage .....	64 00
	<hr/> \$123 00

And this amount was appropriated for these purposes, to be expended by the Business Agent and Regent.

The President re-appointed the standing committees of the past year, so they remain as follows:

STANDING COMMITTEES.

*Executive*.—Bullard, Cobb, Funk.

*Farm*.—Cobb, Funk, Bryant.

*Buildings and Grounds*.—Bullard, Graham, McLean.

*Finance*.—Morgan, Clemens, Graham, McLean.

*Instruction*.—McKay, Shawhan, Raab.

*Publications*.—President, Regent, Corresponding Secretary.

*Library*.—Regent, Business Agent, Librarian.

Adjourned.

W. L. PILLSBURY,

*Secretary.*

S. A. BULLARD,

*President.*

## MEETING OF JUNE 7, 1892.

The Board of Trustees of the University of Illinois met in the University Parlor, in Urbana, Illinois, at 4 o'clock p. m., Tuesday, June 7, 1892. There were present Messrs. Bullard, Bryant, Clemens, Funk, Graham, McLean, Raab, and Shawhan; absent, Governor Fifer and Messrs. Cobb, McKay, and Morgan.

The minutes were approved as presented by the Secretary.

Professor Burrill then read his report as Acting Regent.

## REGENT'S REPORT.

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

GENTLEMEN: It gives me much pleasure to report to you, in the closing hours of the year, that the affairs of the University seem to be in an eminently satisfactory condition, and that the accomplishments of the past are bright predictions of great things hereafter. In several particulars the year has been a notable one. Internal harmony, good work with good will, has conspicuously prevailed, and external repute appears to have been gained. The attendance has been one-eighth greater than ever before at the University itself, while nearly 1,000 persons have been enrolled as regular attendants upon the lectures given in the University extension courses,—a movement that began with us during the year. The introduction of a course of lectures in the College of Engineering by renowned specialists may be called University intension as opposed to extension. The course of seven lectures given this year has been abundantly fruitful in adding new interest and stimulus to work previously well done, and has helped to carry the good name of the University abroad. By your authority the courses of study have been liberalized and better adapted to modern usage, and also have been increased in extent. Opportunity has been given for more specialization in study, and inducements have been offered for graduate work. The new catalogue, almost double the size of its predecessors, shows by its make-up the marked activity of the year.

Under your sanction and encouragement, members of the Faculty have made determined, untiring, and thoroughly united efforts to advance the interests of the University along all proper lines, by all proper means. The divisions of this body into standing committees, each having its special duties and charged with special affairs, has made a progress possible which otherwise could not have been achieved. Whatever has been attained is due to the general and earnest efforts of these men, individually and collectively.

During the year the new natural science building has been in course of erection and, in spite of exceptionally bad weather, now shows what a magnificent addition it is to be to the material equipment of the University.

A most remarkable movement among the students has resulted in securing pledges from among themselves of \$11,640 towards a new building for the young people's Christian associations. This notable and laudable effort is worthy of the highest commendation and also of the heartiest and most substantial support.

The most serious loss of the year comes through the withdrawal of Professor Butler to accept an appointment elsewhere, with an increase of pay and of privilege. He has been a member of the Faculty here for six years, and has won the highest esteem of all through his admirable natural and acquired qualifications for his professional work and for the varied requirements of an inspiring leader of young men and women. For him personally there are many congratulations to be offered; for the University there can only be regret at his departure.

Miss Clara Maud Kimball, instructor in music, also withdraws, at least for the time, and expects to spend a year or more abroad. She has conducted her departments with much energy and efficiency, and has made lasting friends of all her associates among teachers and students.

#### ATTENDANCE.

There have been enrolled during the year 583 students—64 more than last year, which was then the highest number in the history of the institution. Of the number present this year 163 are classed as preparatory, but owing to our rule of advancing no one to the freshman rank until the last one of the preparatory studies is made up, this number represents a greater proportion than the facts really warrant. Many of these students have actually done the work of the freshman year, or nearly so, and next year will be in sophomore classes. Ranked by rather arbitrary rules, the numbers of the University classes are as follows: Freshman 184, sophomore 101, junior 57, senior 46, resident graduates 8. In all these except the last something the same should be said as has been of the preparatory class, i. e., there are in fact a considerable number in the freshman and sophomore classes who more nearly belong in the next higher class.

The total number of matriculated students since the beginning is now 2,762, and the whole number of graduates, including the present senior class, is 733.

#### DEGREES AND COMMISSIONS.

The class of 1892 now has 42 members who are herewith recommended by the Faculty for degrees as named, and authority to confer these degrees is respectfully asked.

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

##### *Course of Mechanical Engineering.*

Winslow Howard Foster,  
William Alexander Martin,

William George Miller,  
William Snodgrass, Jr.

##### *Course of Civil Engineering.*

William Davis Barber,  
John King Barker,  
Frank Beckwith,  
John Waterbury Crissey,  
Zebulon Foster,  
Andrew Wallace Gates,

Roy Allen Mather,  
John Williams Page,  
Edward Louis Scheidenhelm,  
Benjamin Asaph Wait, Jr.,  
Frank Robert Williamson.

##### *Course of Architecture.*

Parke Tunis Burrows,  
Charles William Cross,  
Edmund Bailey Funston,  
Charles Alexander Gunn,

Ralph Warner Hart,  
Walter Clarence Harvey,  
Cyrus Daniel McLane.



COLLEGE OF SCIENCE. Degree of Bachelor of Science.

*School of Chemistry.*

Robert Humphrey Forbes.

*School of Natural Science.*

Alice May Barber.  
Sarah Mariena Paine.

Ulysses Samuel Grant Plank.  
Howard Oakley Woodworth.

COLLEGE OF LITERATURE.

*School of Ancient Languages.*—Degree of Bachelor of Arts.

Franklin Gregory Carnahan.  
Agnes Gale Hill.

Hermann S Piatt.

*School of English and Modern Languages.*—Degree of Bachelor of Letters.

Sarah Bennett.  
Cassandra Armstrong Boggs.  
Edward Everett Gulick.  
Joseph Piper Gulick.  
Lott Russell Herrick.  
Glen Moody Hobbs.

Charles Albert Kiler.  
Anne Melissa Maxwell.  
John Barb Morgan, Jr.  
Rome B Pullen.  
Edward Lewis Walker.  
Royal Wright.

The following named graduates of former classes have been recommended for the second degrees designated:

Edward I. Cantine, B. S. ....	Class of 1887.....	Degree of Civil Engineer ....
Thomas F. Hunt, B. S. ....	" 1884.....	" Master of Science..
George W. McCluer, B. S. ....	" 1884.....	" "
Miss Ella U. Barber, B. L. ....	" 1884.....	" Master of Letters..

Degrees recommended for those graduating ten years or more ago with certificates:

Milo P. Burwash .....	Class of 1872.....	Degree of Master of Science..
Andrew T. Morrow .....	" 1873.....	" Civil Engineer.....
William C. Ellis .....	" 1874.....	" "
Mrs. Alice Cheever Bryan.....	" 1874.....	" Master of Letters..
Dillon S. Brown.....	" 1875.....	" Master of Science..
Watson Pickrell.....	" 1875.....	" "
Charles W. Clark.....	" 1876.....	" Civil Engineer ....
Henry J. McKay.....	" 1876.....	" Master of Letters..
James B. Mann.....	" 1876.....	" "
James E. Bumstead.....	" 1877.....	" Master of Science..

The Faculty recommend that the Degree of Master of Science be conferred upon Mrs. Louisa Catherine Allen-Gregory, based upon her studies in the University, and for her high standing as a member of this Faculty.

Parke Tunis Burrows and Roy Allen Mather have been recommended by the Faculty to the Governor of the state, and have been honored by him with commissions by brevet as Captains in the Illinois National Guard.

APPOINTMENTS.

This is the usual time for the regular appointments of professors and instructors. A word from me on this matter may not be altogether in place; however, your duty is so difficult and the proper discharge of it is so vitally important to the welfare of the University that I am sure suggestions will be considerably received.

Fine buildings, thoroughly equipped laboratories, excellent libraries, and large numbers of students, do indeed contribute to good work and to a good name; but the instruction given is the all important thing in an institution of learning. This, first of all, and more than all, means men rather than things. It means teaching power more than teaching facilities. If fame is to come to the University, look for it through the reputation of the professors; if high eminence is desired, secure men whose services are worthy of the widest recognition in their special lines. But this is always and everywhere the difficult thing to do. It requires money, and latterly, it seems, more money than ever before. You would willingly pay more than you do to secure the best possible instruction, but your treasury is limited and its limitations must be respected.

But money is not the only consideration in employment of this kind. Even from the business point of view, there are other things, besides the actual amount of the salary, which must be taken into account. The question of tenure of office is one of these. If a man feels that the moderate salary received is reasonably sure for a considerable length of time, he may work contentedly and without feeling compelled to keep a lookout for something better. Is it not within your power to make an improvement in this respect?

Anything whatever that may lead men to take pride in their work; that begets within them a love for their departments and for the institution, really counts for more than salary. No one does his best work for pay, at least no earnest professor gauges his work by salary stipulations. No great department is, or can be, well built up unless the chief at least has his heart in it; unless his daily life is absorbed by it; unless he has an interest in it high above that of employé, or even above that of proprietor. He must, in solicitude and affection, be a parent to the cherished family of growing interests by which he becomes surrounded. A man so stimulated must toil, must grow, must succeed; and an institution that fosters this spirit does so in good business wisdom, as well as for higher and nobler purposes.

To this end, it seems to me, the greatest possible liberty should be accorded each professor in the work of his department. Allow him all the facilities practicable and secure to him all the credit of his accomplishments. Let him understand that those in authority have faith in him, and that he is to be judged mainly by results. If these show want of success, let some one else try.

Will you pardon me if I say the rule requiring leave of absence in vacation is in direct violation of what seems to me the true policy, as just stated? The man is not fit for his place, if he is not more interested in the affairs of his department than any overseer can be. From the experience of the past, I am convinced that you have never gained any service through the operations of this rule, and the spirit of it is unmitigably bad.

Other Universities have found it advantageous to give professors, at certain stated periods, time off duty, either on full or on half pay. This is found feasible every seventh year, on the latter condition, without financial loss to the institution; since temporary instruction can be secured for the half salary remaining, while the regular incumbent is away gathering information and power for increased usefulness after his return. Our salaries are too low to permit always acceptance of this privilege; but it seems certain that some regulation of this kind would be productive of good along the lines indicated above.

I submit from Professor Butler the following note, of which you have already been apprised:

URBANA, May 28, 1892.

*To the Regent and Trustees, University of Illinois.*

GENTLEMEN: I beg leave to inform you that, having accepted an appointment as associate professor of English literature and rhetoric, in the

University of Chicago, I am not a candidate for re-election to the professorship of English language and literature in the University of Illinois.

Very respectfully yours,

NATHANIEL BUTLER, JR.

Personally Professor Butler is to be congratulated upon the good fortune which has come to him; but the University seriously suffers thereby. He is worthy of all the popularity and esteem he has gained with us, and this is high commendation.

I also present a letter from Miss Kimball, Instructor in Vocal and Instrumental Music:

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

GENTLEMEN: Desiring to spend a year in rest and study abroad, I hereby tender my resignation as instructor in vocal and instrumental music, with the hope, that wot that the standard is raised I may be permitted on my return, to aid in establishing a genuine school of music, which will be a great attraction to many students, and begin, in some degree, to meet the demand which I have been unable to meet in that direction.

I remain, very truly yours,

CLARA MAUD KIMBALL.

Champaign, Ill., June 7, 1892.

Mr. Grindley, first assistant in chemistry, and Mr. Powell, assisfant in general engineering drawing, have other plans for next year, and do not seek a re-appointment.

I herewith present the list of appointments and salaries, made by you one year ago or later, for your guidance in elections now. At the proper time I shall be glad to contribute any information I possess in relation to the necessities of another year, and the possibilities of meeting them.

#### AGRICULTURAL EXPERIMENT STATION.

Owing to the absence of Professor Morrow, and the unusual demands upon the time and energies of the resident members of the Board of Direction of the Experiment Station, a meeting of the latter has not been called, as has usually been done just preceding your meeting. In the meantime authority is asked for the expenditure by the President and Secretary of its Board of any remaining balances in the Station's annual accounts.

I present the following communication from the Secretary of the Mechanical Engineering Teachers' Association for your consideration:

#### THE MECHANICAL ENGINEERING TEACHERS' ASSOCIATION.

LAS CRUCES, N. M., April 7, 1892.

*Mr. President,*

MY DEAR SIR: I have the honor to request you to transmit to your Board of Control the following letter, and forward the reply to the same at your earliest convenience to

Yours, very respectfully,

A. J. WIECHARDT, *Secretary.*

*To the Honorable Board of Control.*

GENTLEMEN: We beg leave to draw your attention to the enclosed extract from the proceedings of the first annual meeting of the Mechanical Engineering Teachers' Association.

This association at that time adopted the following:

WHEREAS, the object of this association is exclusively the furtherance of the interests of colleges represented, and

WHEREAS, This object is exactly similar to that of the "Association of American Agricultural Colleges and Experiment Stations," except that this Association seeks to promote the interests of the mechanical parts of the A. and M. colleges, while the former aims to advance the interests of the agricultural side, and

WHEREAS, The expenses of this last named Association are paid by the colleges represented; therefore be it

*Resolved*, That this Association does not see any reason for any discrimination; and be it further

*Resolved*, That the Secretary be instructed to send a letter, in the name of the Council, to each Board of Control, addressed to the presidents of the colleges, requesting an expression of opinion on the question as to whether the Board would be disposed to pay the necessary expenses incurred by its representative in attending meetings of this Association.

In accordance with the above, gentlemen, we very respectfully await your reply, and, in the interest of modern technical education, sincerely trust that it may be in the affirmative.

Respectfully yours, on behalf of the Council,

A. J. WIECHARDT, *Secretary*.

The subjoined communication from Professor Morrow is presented for such action as seems to you wise:

UNIVERSITY OF ILLINOIS, May 11, 1892.

*Dr. T. J. Burrill, Acting Regent,*

DEAR SIR: Acceptance of the leave of absence for thirty days granted me will prevent my making the usual quarterly report immediately preceding the June meeting of the Board of Trustees.

At this date the work on the farms is as well advanced as could be expected in view of the unusually unfavorable weather. With favorable weather from this date, I anticipate little loss from the late planting, necessary for the corn crop. The most discouraging feature of the outlook is the almost unprecedentedly bad condition of the cattle market. The purpose is to reduce somewhat the herds on the farms during the present season.

The conclusion is more and more firmly fixed that our hope of any considerable increase in the number of students in the College of Agriculture must come from an increased interest in the shorter courses offered in this college. Even were such an increase secured, it would remain true that a considerable part of the time and thought of the professor of agriculture may most wisely be given to the work of the Experiment Station, and to lecturing or addresses at agricultural meetings of various kinds in the state. Part of the work of instruction here can well be done by a competent assistant. Mr. F. D. Gardner, the Assistant Agriculturist of the Experiment Station, could do this work well. It would be manifestly improper, if this arrangement should be made, that all his salary should be paid from the Station funds. If the present policy, which I think wise, of having the professor of agriculture also act as an agriculturist to the Station, be continued, it would be equitable that a considerable part of his salary should be paid from the Station funds. I would respectfully recommend that Mr. F. D. Gardner be appointed assistant in agriculture in the College of Agriculture, and that such portion of his present salary as may be thought proper be paid from the University funds. I have no doubt the Board of Direction of the Experiment Station would recommend that at least an equal amount of the salary of the professor of agriculture be paid as agriculturist of the Station, in addition to the nominal sum now paid.

At the September meeting of the Board some suggestions as to methods of increasing the usefulness of the College of Agriculture will be presented.

Very respectfully,

G. E. MORROW,  
*Professor of Agriculture.*

Your consideration is also asked to a letter from the War Department of the United States:

ORDNANCE OFFICE, WAR DEPARTMENT,  
WASHINGTON, May 3, 1892.

SIR: The Secretary of War has decided that all colleges or other institutions having arms or other public property belonging to the government must keep the same fully insured against loss to the United States by fire.

The value of the ordnance and ordnance stores belonging to the United States now in possession of University of Illinois, Champaign, Ill., is \$6,877.60, as shown on the accompanying list; and you are respectfully notified to insure this property without delay.

Any future issues of arms, etc., to your institution are to be immediately insured.

A failure to promptly insure this property, or to keep alive the policy by the payment of the stated premiums thereon, will be considered cause for the withdrawal by the War Department of the arms, etc., belonging to the government in your possession, and will also be considered cause for adverse report from this office on any application to congress for relief for any losses by fire.

Respectfully,

D. W. FLAGLER,  
*Brig. Gen., Chief of Ordnance.*

The President of University of Illinois, Champaign, Illinois.

List of ordnance and ordnance stores in possession of the University of Illinois, on the 19th April, 1892, viz.:

Stores.	Value.
2 6 pdr. bronze guns.....	\$812 00
Implements for same.....	42 60
2 gun carriages.....	650 00
299 cadet rifles, with appendages .....	4,485 00
300 sets infantry accoutrements .....	798 00
15 arm chests.....	90 00
Total.....	\$6,877 60

I present reports and requests from the several departments of the University, as follows:

#### DEPARTMENT REPORTS AND REQUESTS.

Lieut. Hills asks for \$26.45 for some repairs upon the rifles.

He reports two rifles missing, but thinks incorrect returns have heretofore been made, and that the loss has not lately occurred. By collecting the rifles together, which has not been done heretofore, the number now on hand has been accurately ascertained.

Professor Crawford reports from the library, as follows:

UNIVERSITY OF ILLINOIS, June 2, 1892.

*Professor T. J. Burrill, Acting Regent,*

SIR: I have to make the following recommendations for the library:

1. That there be made available from the state appropriation the sum of \$200 for binding and repairs.
2. That Mr. Bennett, the assistant librarian, be employed during the months of July and August of the present year for special work in the library, presumably at the present rate of compensation.
3. That \$50 be appropriated to pay for assistance needed during the month of June for the purpose of invoicing the library.
4. That \$150 be appropriated for new cases needed in the library.

Very respectfully,

J. D. CRAWFORD, *Librarian.*

Professor Snyder has handed me this report, as Dean of the College of Literature:

UNIVERSITY OF ILLINOIS, June 4, 1892.

*Dr. T. J. Burrill,*

DEAR SIR: I desire to lay before you and the Board of Trustees the needs of the College of Literature, and shall do so very briefly, since every point has been discussed before.

1. The appointment of a professor of English literature.
2. The appointment of a professor of philosophy and pedagogy.
3. The appointment of a professor of political science.
4. The appointment of two assistants (at about \$750 each), one for English literature and rhetoric, the other for modern languages.
5. An appropriation of \$500 for lectures during the year 1892-'93. The college needs a lift and ought to get it.
6. Appropriations have been generously made for three professors, for apparatus of instruction, maps, etc., in their rooms. I ask that this needed favor be extended to the following:

Professor Crawford, maps, etc.....	\$100 00
Professor Paradis, " .....	100 00
Professor Snyder, " .....	100 00

Our recitation rooms are very bare, and these appropriations would help us a great deal.

I am conscious of asking for nothing but what is badly needed to give this college an equal chance with the others to make a step forward.

Very respectfully,

E. SNYDER.

I have received the following report from Professor Ricker, Dean of the College of Engineering:

UNIVERSITY OF ILLINOIS, May 31, 1892.

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

GENTLEMEN: In behalf of the College of Engineering, I beg leave to present the following report and requests:

1. *Non-Resident Lecturers.* Your munificent appropriation of \$500 for securing a series of lectures from eminent engineers and architects has been but partially expended, it having been found impossible to obtain some of the lecturers desired, owing to their professional engagements. A list of the lecturers and of their topics appears in the catalogue.

It has been found necessary to pay \$50 for each lecture, inclusive of all traveling and hotel expenses, and this seems to be the sum usually paid for such lectures by similar institutions. A large amount of very valuable material has been acquired in the form of diagrams, blue prints, lantern slides, etc. The lantern slides were paid for, and have consequently been retained by the University. The lectures have been very interesting and useful, because they have treated professional topics of the greatest present interest to engineers and architects, or have given the results of long continued studies and practical experiments. They have, further, brought the students into contact with leaders in professional work, and given an acquaintance with novel modes of thought and procedure. It is certain that the money could not have been expended in any other manner with equal benefit.

It is therefore requested that an appropriation of \$500 be now made by your Board for non-resident lecturers before the College of Engineering during the University year 1892-3.

2. *Engineering Instruments.* It is further recommended that an appropriation of \$150 be made for the purchase of one Amsler's Integrator, and one Amsler's Suspended Planimeter, both having the latest improvements and to be imported duty free, and for use in the College of Engineering.

The most important use of the integrator is to obtain the numerical value of the moment of inertia of the cross section of a beam, girder, or column. The section is first drawn full size, a tracing point of the instrument is then passed around its outline, and the required value is read off the instrument directly, without any of the very tedious approximations and computations necessary in using any other method. The value of the moment of inertia must always be found before the strength of the beam, girder, or column can be determined. The great practical value of the instrument to engineers and architects in working out the details of constructions in iron and steel is therefore sufficiently evident.

The suspended planimeter is used for obtaining the exact areas of plane figures of any form, and is indispensable to mechanical engineers in measuring the areas of indicator diagrams, which show the quantity of work done by the steam engine, and indicate the proper setting of valves, economical use of steam, etc. This form of planimeter is used with but one-sixth the error incurred in the use of the ordinary form of planimeter.

3. Instructor in the elements of draughting, and in descriptive geometry.

It is with very great pleasure that I can report the work done by Mr. Powell during the year as having been unusually satisfactory. I sincerely hope that your Board will succeed in retaining his services for the coming year, though I understand he has been offered an excellent business position, much preferable financially.

This position ought to be made at least an assistant professorship as soon as possible, so that an instructor could be retained permanently, and the Board relieved of the necessity of trusting to good fortune in securing a different and satisfactory instructor each year. It is very difficult to obtain the services of a competent graduate after he has been away from the University for a few years, and there is great risk in taking an untried man. This instructor is of especial importance in this College, for he is the principal technical instructor who meets the freshman class (100 during the current year), has very great influence on their habits and methods of work, and can properly eliminate the inefficient men before they have gone too far to enter upon some other line of study for which they may be better fitted.

4. That an appropriation of \$500 be made for additional apparatus and improvements in the testing laboratory of the College of Engineering.

Very respectfully submitted,

N. CLIFFORD RICKER.

*Dean of College of Engineering.*

Professor Baker has submitted a plan for better care of the civil engineering instruments. He proposes to have cages or lockers made for each set of these instruments, so that they can be kept under lock and key when not in use, instead of being exposed as at present in the open room. To make these will cost \$200.

Professor Ricker asks for the following appropriations for the department of architecture:

For materials for architectural cabinet.....	\$100 00
For specimens of sanitary construction.....	59 00
For labor mounting plates, etc .....	85 00

He adds—

“As the number of students in shop practice increases, as well as the quantity of commercial work done for the University, the labors and responsibilities of Mr. Parker, as foreman of the architectural shops, have correspondingly increased, until he now makes an earnest request for the employment of an assistant foreman, to take charge of a portion of the work. This should be done, for it is not possible for a single man to impart all the instruction in shop practice and to supervise properly all the work done for the University.”

Professor Stratton asks appropriations for the department of physics, and for the electrical engineering laboratory, as follows:

For electrical measurement apparatus, ordered by permission of the Trustees, given at the December meeting. ....	\$500 00
For apparatus and material in the physical laboratory.....	300 00
For an electric light photometer for electric laboratory.....	285 00
For two desks, one for the physical lecture room and the other for the electrical laboratory .....	30 00

For the department of mining engineering, Professor Baldwin asks:

For an anemometer, a water gauge, and for photographs and maps of mines....	\$50 00
For repairs of ore dressing machinery and purchase of ores .....	50 00

Professors Palmer and Parr ask for the chemical laboratory appropriations as follows:

For lecture room settees for 150 students .....	\$225 00
For chemical supplies to be bought for use at the beginning of the next term...	500 00
For books of reference.....	400 00
For apparatus for work in thermo-chemistry.....	500 00

Professor Rolfe wishes to make for use in instruction in economic geology, collections of ores, coals, building materials, etc. These can often be had without cost for the specimens themselves; but their transportation and preparation must be paid for. An assignment of \$200.00 is asked for this purpose.

Professor Rolfe would also like the privilege of publishing a pamphlet of some 50 pages containing the data in regard to elevations which he has obtained in making a relief map of the State of Illinois. It is thought this will cost about \$100.00.

According to instructions given at your last meeting plans have been prepared for the adaptation of the room now used for the department of



art and design for engineer's draughting room; also for fitting up a series of rooms for art and design. These plans and specifications are herewith submitted.

Great pains has been taken in the preparation of plans for the proposed three new buildings, and these are presented for your inspection. Professor Ricker has done this work with such suggestions as specially interested members of the Faculty could give.

I ask that you appropriate \$100 more for commencement expenses; \$300 for the usual cleaning of the buildings; \$150 for the care of the grounds; for repairs in heating apparatus of University Hall, \$400.

It is also desirable that the \$10,000 for heating and furnishing the new building be assigned, and that measures be taken for its prompt expenditure, so that there may be no unnecessary delay in occupying the building as soon as possible after the contractor is through.

Respectfully submitted,

THOMAS J. BURRILL, *Acting Regent.*

On motion of Mr. McLean, authority was given to confer bachelor's degrees, as recommended by the Faculty of the University and reported by the Regent.

On motion of Mr. Funk, authority was given to confer masters' degrees upon the persons recommended by the Faculty, on the ground that they had completed a prescribed course of study and presented the required thesis.

On motion of Mr. Shawhan, authority was given to confer masters' degrees upon the ten other persons recommended by the Faculty for that honor, they having been selected in accordance with a vote of the Trustees, passed at the March meeting, 1891, from the persons who had formerly graduated with certificates.

On motion of Mr. McLean, in accordance with the recommendation of the Faculty, authority was given to confer the degree of M. S. upon Mrs. Louisa Catherine Allen-Gregory.

On motion of Mr. Raab, the Board adjourned to meet at the Columbian hotel, in Urbana, at 9 o'clock p. m.

---

#### EVENING SESSION.

The Board met pursuant to adjournment. Mr. McKay was present, and Mr. Clemens had gone away.

The Treasurer, Mr. J. W. Bunn, then read the following report:

JOHN W. BUNN, TREASURER, IN ACCOUNT WITH THE UNIVERSITY OF ILLINOIS.

		<i>Dr.</i>		
1892.				
March	8	To balance .....		\$61,471 26
		.. interest on Gallatin county bonds .....		300 00
	31	.. amount rec'd on account University students' fees..	\$1,875 00	
		.. .. preparatory year .....	300 00	
		.. .. architectural department ..	38 98	
		.. .. agri-cultural ..	352 00	
		.. .. horticultural ..	21 30	
		.. .. buildings and grounds .....	20 00	
		.. .. fuel and lights .....	11 64	
				2,618 92
April	1	.. interest on Sangamon county school bonds .....	\$60 00	
May	1	.. .. .. ..	300 00	
		.. .. .. ..	150 00	
	5	.. .. Shelby .. ..	390 00	
				900 00
	27	.. amount rec'd on account architectural department ...	\$26 75	
		.. .. fuel and lights .....	40 00	
				66 75
	31	.. .. .. buildings and grounds .....	\$21 00	
		.. .. .. fuel and lights .....	68 99	
		.. .. .. mechanical department .....	362 38	
		.. .. .. architectural .....	895 83	
		.. .. .. agricultural ..	462 84	
		.. .. .. horticultural ..	127 50	
		.. .. .. laboratories .....	515 34	
		.. .. .. music fees .....	218 00	
		.. .. .. University student's fees ..	1,420 00	
		.. .. .. preparatory year .....	296 67	
				4,388 55
				<u>\$69,745 48</u>
		<i>Cr.</i>		
1892.				
May	31	By amount paid on account Board expense .....	\$160 86	
		.. .. salaries .....	2,671 32	
		.. .. buildings and grounds .....	701 94	
		.. .. fuel and lights .....	892 25	
		.. .. stationery and printing .....	631 71	
		.. .. preparatory year .....	579 99	
		.. .. mechanical department .....	321 81	
		.. .. architectural ..	850 82	
		.. .. agricultural ..	756 45	
		.. .. horticultural ..	71 89	
		.. .. laboratories .....	912 42	
		.. .. library and apparatus .....	25 06	
		.. .. incidental expense .....	185 05	
				\$8,761 55
		.. .. water supply .....	\$100 00	
		.. .. furniture and fixtures .....	164 10	
		.. .. gymnasium ..	7 00	
		.. .. lumber sheds .....	65 02	
		.. .. fire grenades .....	43 52	
		.. .. farm barn .....	43 74	
		.. .. band music .....	16 27	
		.. .. commencement .....	18 95	
		.. .. University extens'n lectures ..	90 10	
		.. .. art gallery .....	21 85	
		.. .. bulletins .....	96 44	
		.. .. military scholarship .....	60 00	
		.. .. electric clock .....	134 87	
		.. .. <i>Illini</i> , press, type, etc .....	44 29	
		.. .. <i>Illini</i> , subscriptions .....	86 24	
		.. .. front doors .....	289 05	
		.. .. accredited schools .....	85 90	
		.. .. music fees .....	218 00	
				1,585 34

Treasurer's Report—*Concluded.*

<i>State Appropriations—</i>				
31	By amount paid on account	buildings and grounds.....	\$13 66	
"	"	apparatus and material.....	268 80	
"	"	mechanical and arch'l shops.....	937 30	
"	"	books and publications.....	63 94	
"	"	cabinets .....	71 60	
"	"	expenses of instruction.....	7,407 32	
"	"	farm barn .....	106 69	
"	"	furniture.....	616 96	
"	"	metallurgical laboratory.....	473 30	
"	"	heating military building.....	565 00	
"	"	natural science building.....	14,249 54	
"	"	State Laboratory of Natural History.....	1,580 37	
"	"	United States fund.....		\$26,354 48
				7,777 48
				\$44,478 85
	Balances—Current funds .....		\$7,798 55	
	" State appropriations.....		12,589 97	
	" United States fund.....		4,878 11	
				25 266 63
				\$69 745 48

Urbana, June 7, 1892.

JOHN W. BUNN, *Treasurer.*

Mr. Bunn reported the purchase for the endowment fund of \$10,000 Douglas county six per cent. bonds, \$5,000 due November 10, 1894, and \$5,000 due November 10, 1895, for which he had paid par, \$200 accrued interest, and \$315 premium. He asked for an appropriation of \$515 to meet interest and premium.

On motion of Mr. McLean, the purchase was approved and an appropriation from current funds of \$515 was made as requested.

Mr. Bunn reported taxes paid amounting to \$1,532.69, and it was ordered that a warrant for this amount be drawn against the state appropriation for taxes.

On motion of Mr. Raab, it was voted that hereafter professors and assistant professors appointed in this University shall hold their positions during the pleasure of the Board of Trustees.

On motion of Mr. McKay, Section 4 of Article 5 of the By-laws of the Board was rescinded.

On motion of Mr. McLean, the Board deferred, for future consideration, the recommendation by the Regent with regard to giving professors in the University extended leaves of absence.

On motion of Mr. McLean, the President appointed Mr. McLean and Mr. Shawhan a committee to present to the Board appropriate resolutions with regard to the departure of Professor Butler and Miss Kimball.

The appointment of professors and assistant professors was then taken up, and on motion of Mr. McLean, Dr. Thomas J. Burrill was appointed Professor of Botany and Horticulture in the University, at a salary of \$2,000 a year.

On motion of Mr. McKay, the persons named in the following list were appointed full and assistant professors with salaries as therein indicated:

## PROFESSORS AND SALARIES.

Names.	Position.	Salary.
Samuel W. Shattuck.....	Professor of Mathematics.....	\$2,000
Edward Snyder.....	Professor of the German Language and Literature..	2,000
N. Cliffor Kicker.....	Professor of Architecture.....	2,000
James D. Crawford.....	Professor of History and Librarian.....	2,000
George E. Morrow.....	Professor of Agriculture.....	1,300
Ira O. Baker.....	Professor of Civil Engineering.....	2,000
Stephen A. Forbes.....	Professor of Zoölogy and Entomology.....	1,000
James H. Brownlee.....	Professor of Rhetoric and Oratory.....	2,000
Charles W. Rolfe.....	Professor of Geology.....	2,000
Donald McIntosh.....	Professor of Veterinary Science.....	1,800
Arthur N. Talbot.....	Professor of Municipal and Sanitary Engineering....	1,800
Arthur W. Palmer.....	Professor of Chemistry.....	1,800
Frank F. Frederick.....	Professor of Industrial Art and Design.....	1,800
Samuel W. Parr.....	Professor of Analytical Chemistry.....	1,800
M. R. Paradis.....	Professor of the French Language and Literature.....	1,800
Herbert J. Barton.....	Professor of the Latin Language and Literature.....	2,000
Charles E. Moss.....	Professor of the Greek Language and Literature.....	1,800
Samuel W. Stratton.....	Professor of Physics.....	1,600
Walter J. Baldwin.....	Professor of Mining Engineering.....	2,000
Charles W. Scribner.....	Professor of Mechanical Engineering.....	2,000
.....	Professor of the English Language and Literature.....	2,000
.....	Professor of Psychology.....	2,000
.....	Professor of Physical Culture.....	1,600
George W. Myers.....	Assistant Professor of Mathematics.....	1,200

At 11:45 p. m. the Board adjourned to meet in the University Parlor at 8 o'clock a. m., Wednesday.

## SESSION OF WEDNESDAY.

The Board met pursuant to adjournment, the same members being present except Mr. Raab.

The Board appointed Mr. Shawhan and Professor Burrill a committee to report upon the condition and needs of the preparatory school.

The Faculty were directed to nominate to the Trustees suitable persons for appointment to the four fellowships which have been establishment.

On motion of Mr. Funk, the following named persons were appointed instructors and assistants in the University at salaries named, all except Messrs. Parker and Anderson, who were appointed for one year, for the ten months beginning Sept. 1, 1892:

## INSTRUCTORS AND ASSISTANTS.

Names.	Position.	Salaries.
George W. Parker.....	Instructor in Wood-working and Foreman.....	\$1,380 00
Rufus Anderson.....	Instructor in Iron-working and Foreman.....	1,600 00
Howard S. Brode.....	Assistant in Zoölogy.....	1,000 00
James M. White.....	Instructor in Architecture.....	1,000 00
Edward S. Keene.....	Assistant in Machine shop.....	900 00
Edith A. Shattuck.....	Assistant in Drawing.....	600 00
George P. Clinton.....	Assistant in Botany, Spring term.....	212 50
Thomas A. Clark.....	Instructor.....	750 00
Glen Moody Hobbs.....	Assistant in Physics.....	700 00
Robert H. Forbes.....	First Assistant in Chemistry.....	750 00
Frank D. Gardner.....	Assistant in Agriculture.....	450 00

It was voted that when the Board adjourn it should adjourn to meet at the Grand Pacific Hotel, in Chicago, at 9 o'clock a. m., June 27, 1892.

The President and Secretary of the Agricultural Experiment Station were authorized and instructed to expend for the best interests of the Station all balances of Station funds for the year ending June 30, 1892.

It was directed that the President and Secretary draw upon the Auditor of Public Accounts such orders as the law requires, in order that he may issue to the Treasurer of the University his warrants upon the State Treasurer for the amounts appropriated by the legislature to the University of Illinois and to the State Laboratory of Natural History.

Assignments of the funds of the State Laboratory of Natural History were made as follows, for the quarter beginning July 1, 1892:

For field, office, and incidental expenses.....	\$375 00
For salaries and assistance.....	875 00
For publication of bulletins.....	125 00

Also assignments were made

For the improvement of the library.....	\$1,000 00
For illustration of the biennial report of the State Entomologist.....	250 00

Mr. Graham's bill of \$150.62, and Mr. McKay's bill of \$133.25, for expenses incurred on a trip east in search for a suitable man for the regency were approved and ordered paid from current funds.

The plans for new buildings were referred to the Committee on Buildings and Grounds, and the Committee was instructed to present them with a report thereon at the meeting on the 27th inst.

The Board then took a recess in order to attend commencement and the alumni banquet.

The following report from the committee on Minnesota lands was received:

#### MINNESOTA LANDS.

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

GENTLEMEN: Since your last meeting your committee has closed up matters in relation to S. E. and S. W. quarters of sections 24—24—36, Pope county, Minnesota, and has received a certificate dated May 11, 1892, for the S. W. quarter, showing entry by the University.

It being necessary to look after rentals, Mr. Pillsbury visited the lands again early in April, and made arrangements for payment of back rents on lands which have been cultivated without your consent, and for the rent of those lands for this year, and for grass sales. The income from these rentals will amount to over \$300.

It was found that the little town of Brooten, which is near our lands in Pope county, is growing quite fast, and that the University lands are

almost the only unimproved lands in the vicinity that are for sale. The committee, therefore, made an advance of about 25 per cent. on the prices of lands in this county.

The sales have been as follows:

No.	1892.	Name.	Description.	No. Acres.	Price per Acre.	Whole Price.	Cash Paid.
82	March 12	W. H. Lemon.....	SE NW 18, 124, 36.....	40.00	\$10 00	\$400 00	\$100 00
83	March 12	L. S. Botten.....	N½ NW 18, 124, 36.....	76.47	10 00	764 70	189 70
84	April 1	A. Vesterud.....	SW NW 12, 123, 36.....	40.00	10 00	400 00	100 00
85	March 12	H. K. Vestrud.....	SW SE 11, 123, 36.....	40.00	10 00	400 00	100 00
86	March 15	Anne Hanson.....	SE SE 21, 124, 36.....	40.00	11 00	440 00	110 00
87	April 12	T. D. Davidson.....	NW 26, 124, 36.....	160.00	12 50	2,000 00	200 00
88	April 12	T. D. Davidson.....	SE 23, 124, 36.....	159.22	12 50	1,990 75	200 00
89	April 12	T. D. Davidson.....	NE 23, 124, 36.....	160.00	11 00	1,760 00	176 00
90	April 1	A. Skredsvig.....	SW 26, 124, 36.....	160.00	12 50	2,000 00	500 00
91	April 12	O. O. Halvorson.....	E½ & NW of SE 11, 123, 36	120.00	10 00	1,200 00	300 00
92	April 12	O. O. Halvorson.....	E½ & NW of NW 12, 123, 36	120.00	10 00	1,200 00	300 00
93	May 2	O. O. Halvorson.....	SE 2 of SE 2, 123, 36.....	80.00	12 50	1,000 00	375 00
			SE ¼ NW 11, 123, 36.....	40.00	12 50		
94	May 2	N. K. Buoen.....	NE NE 12, 123, 36.....	40.00	12 50	900 00	225 00
			SE NE 12, 123, 36.....	40.00	10 00		
95	May 5	Andrew Olson.....	SW 6, 116, 31.....	149.96	15 00	2,249 40	324 40
96	April 12	H. A. Lia.....	SE NE 10, 123, 36.....	40.00	10 00	400 00	100 00
97	May 2	M. O. Batterberry.....	N½ SE 21, 124, 36.....	82.00	12 50	1,900 00	250 00
98	May 5	J. T. Egan.....	SE SE 21, 124, 36.....	40.00	12 50	1,000 00	250 00
99	May 9	Nels Olson.....	SW SE 21, 124, 36.....	40.00	12 50	970 38	220 38
			W½ SW 25, 124, 36.....	77.63	12 50		
				1,743.28	.....	\$20,575 23	\$4,020 48

For the nine months since the appointment of this committee the sales have been 2,757.33 acres, for \$30,596.23; cash \$6,525.73.

Several proposals for lands are now pending, and your committee is of the opinion that the land is selling as rapidly as the best interests of the University require.

S. A. BULLARD, }  
S. W. SHATTUCK, } *Committee on*  
W. L. PILLSBURY, } *Minnesota Lands.*

The following report was received in regard to the status of the state laboratory of natural history and its relation to the University:

#### STATE LABORATORY OF NATURAL HISTORY.

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

GENTLEMEN: Your committee appointed to ascertain the relations between the University and the State Laboratory of Natural History begs leave to report as follows:

The Illinois State Natural History Society was organized at a convention held at Bloomington June 30, 1858, and incorporated by act of the legislature, approved February 22, 1861. As appears from this act, its object was to collect specimens of animals, plants and minerals, and to establish a museum and library for the use of members, citizens and schools of Illinois, which museum was kept at the building of the State Normal University.

By an act of the legislature, approved April 14, 1871, an appropriation was made for the improvement of the museum and for the salary of a curator, with a provision that the money should not be paid "until the State Natural History Society shall have relinquished all its rights and title in and to said museum to the state of Illinois in such manner as shall be satisfactory to the Governor." In accordance with this act the Illinois Natural History Society transferred, through its agent, Joseph A. Sewall, all its property of every kind, then in the Normal University

building, to the said Board or Education. At the regular meeting held June 28 and 29, 1871, the Board of Education accepted the conveyance, and took possession of the property of the Illinois State Natural History Society "for the use and benefit of the State of Illinois."

The Board of Education at its meeting of December 15, 1875, having under consideration its relations to the property thus acquired and held for the use of the state, resolved:

"That we regard the museum as a state institution, devoted to the prosecution of a natural history survey of the state, to the encouragement and aid of original research, and to the diffusion of scientific knowledge and habits of thought among the people."

By act of the legislature of May 25, 1877, (Sess. Laws of Ill., 1877, p. 14), the museum was styled the "State Laboratory of Natural History," the name which it has since borne.

The foregoing items are obtained from a report upon the relations of the State Laboratory of Natural History to the State Board of Education, made by a committee of that Board, of which the Hon. Henry Raab was chairman, published in the proceedings of that Board for May 20, 1883, which report concludes in the following terms:

"From the above it will be seen that this Board holds the Laboratory in trust for the state, and that the appropriations of the state are expended under the direction of this Board."

The removal of the institution to the University was accomplished in pursuance of an act of the legislature, approved June 27, 1885, which authorizes and directs the Trustees of the University to receive from the State Board of Education the property of the Laboratory and to hold the same for the benefit of the State of Illinois. It also gives them the power to appoint a director and assistants, the latter upon nomination of the director.

The functions of the Laboratory are defined in the following section of the law directing the transfer:

"The State Laboratory of Natural History is hereby especially charged with the supply of natural history specimens to the State Museum, to the state educational institutions and to the public schools. It shall be a further duty of the Director of said Laboratory to conduct a natural history survey of the state, giving preference to subjects of educational and economic importance; and he shall present for publication, from time to time, a series of systematic reports covering the entire field of the zoölogy and the cryptogamic botany of Illinois." It is also provided by this law that the Director of the Laboratory may be State Entomologist.

From the foregoing history and record, we are of the opinion that the Illinois State Laboratory of Natural History is the property of the state; that its appropriations are to be expended under the supervision of the Trustees; and that its Director is immediately responsible to the Board.

We recommend that the Director of the Laboratory be required to present in writing a regular biennial report of the operations of the Laboratory to the Board at the September meeting next preceding each session of the legislature, together with such quarterly reports as the progress of the work may make desirable.

S. A. BULLARD, *Committee.*

Also the following report from the Director of the State Laboratory of Natural History:

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

GENTLEMEN: The somewhat unusual character of the operations of the State Laboratory of Natural History for the present summer makes it seem proper that a brief special report should be made for your information concerning the character and progress of the work now in hand.

In accordance with requests from the Illinois Board of World's Fair Commissioners I prepared and submitted to them last fall a plan for an exhibit of the methods and results of the work of the State Laboratory of Natural History and the State Entomologist's office, which was accepted by them without amendment and is now in process of execution. This plan required the use of 1,500 square feet of floor space, and an assignment of \$9,200 from the funds of the Commission. The opportunities for field and office work thus given by Exposition preparations will incidentally advance the natural history survey of the state much more rapidly than usual.

The force of the Laboratory, chiefly engaged on this work, now comprises two taxidermists with an assistant, three professional entomologists and three assistants in their department, two ichthyological collectors, a zoölogist, an amanuensis, an artist and a librarian—a staff of fifteen in all.

Besides these preparations for the Exposition of 1893, the regular office work of the State Entomologist is in progress, especial attention being given this summer to an elaborate series of studies and experiments with the contagious diseases of insects.

I have also undertaken, at the request of the United States Fish Commissioner, to continue my studies of the invertebrate animal life of the waters of the United States,—a subject which can be prosecuted to very great advantage in connection with the natural history survey of Illinois. Two students of the University, engaged especially for this purpose, worked three weeks last month—part of the time with my assistance—upon two Wisconsin lakes; and I am about to take a party of three to the Rocky Mountains, in Colorado, for a similar investigation. These various lines of work, together with that of the preparation of the University exhibit in zoölogy and entomology and sundry visits to the east, made necessary by my relations to the Fish Commission and to the approaching World's Congress of Zoölogists, will fill my summer vacation unusually full.

I have only to request of you at this meeting that the assignment for laboratory expenses be made in the same terms as last year, and that the salaries of Mr. John Marten, Mr. C. A. Hart and Miss M. J. Snyder be continued for the next fiscal year at the same rate as for this.

Respectfully submitted,

S. A. FORBES, *Director of Laboratory.*

The Committee on Finance presented the following report:

URBANA, ILL., June 8, 1892.

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

GENTLEMEN: Your Committee on Finance respectfully reports that it has examined the books of the Treasurer and compared them with the warrants drawn upon him from March 1, 1891, to August 31, 1891, No. 551 to No. 1,150 inclusive; and from September 1, 1891, to February 29, 1892, No. 1 to No. 700 inclusive, and found all to be in order and correct. The warrants were cancelled and left in the hands of the Treasurer.

The Committee further examined vouchers for warrants No. 1 to No. 700 inclusive, issued from September 1, 1891, to February 29, 1892, and found the same correct and properly receipted.

The Committee also examined Experiment Station vouchers, on which warrants No. 78 to No. 142 inclusive, have been issued, and found them correct and properly receipted.

Respectfully submitted,

N. W. GRAHAM, }  
ALEXANDER MCLEAN, } *Finance Committee.*



The Business Agent, Professor Shattuck, submitted his report:

### BUSINESS AGENT'S REPORT.

UNIVERSITY OF ILLINOIS, June 7, 1892.

*S. A. Bullard, Esq., President Board of Trustees, University of Illinois,*

SIR: I have the honor to hand you herewith the financial statements due from me at this time.

Paper A is a statement of current appropriations and receipts for the three months ending June 1, 1892.

Paper B is a showing of the state appropriations June 1, 1892.

Paper C gives the condition of the United States fund at the same date.

Paper D is a list of vouchers presented for audit, being 326 to 700 inclusive.

Paper E is an estimate of the receipts and expenses for three months ending September 1, 1892.

Paper F is an estimate of receipts and expenses, such as we class as current, on the basis of salaries made last June, 1891, for the twelve months ending September 1, 1892

Respectfully submitted,

S. W. SHATTUCK, *Business Agent.*

### PAPER A—CURRENT APPROPRIATIONS.

	Appropri'd	Receipts also appropri'd.	Exp'nded.	Balance.
Board expense .....	\$250 00		\$160 86	\$89 14
Salaries for instruction.....	13,320 00		{ 1,108 86 7,407 32 }	{ 5 32
“ “ services.....	1,565 00		4,798 50	2 54
Buildings and grounds.....	800 00	\$41 00	701 94	139 06
Fuel and lights.....	750 00	80 63	892 25	
Stationery and printing, catalogues.....	900 00		631 71	268 29
Mechanical department.....	200 00	362 38	321 81	240 57
Architectural.....	200 00	934 81	850 82	283 99
Agricultural.....	200 00	814 84	756 43	258 41
Horticultural.....	100 00	148 80	71 89	176 91
Laboratories.....	400 00	515 34	912 42	2 92
Library and apparatus.....	100 00		25 06	74 94
Incidentals.....	250 00		185 05	64 95
<i>Sundries—</i>				
Water supply.....	100 00		100 00	
Furniture and fixtures.....	100 00		164 10	
Gymnasium.....	50 00		7 00	43 00
Lumber sheds, etc.....	85 00		65 02	19 98
Fire grenades.....	43 52		43 52	
Farm barn.....	985 17		43 74	941 43
Band music.....	20 00		16 27	3 73
Commencement.....	200 00		18 95	181 05
Art gallery repairs.....	40 00		21 85	18 15
University extension lectures.....	442 79		90 10	352 69
Bulletins, etc.....	150 00		96 44	53 56
Military scholarships.....	60 00		60 00	
Electric clock, etc.....	134 87		134 87	
<i>Illini</i> , press, type, etc.....	44 29		44 29	
<i>Illini</i> , subscription.....	90 00		86 24	3 76
Front doors, etc.....	294 05		289 05	5 00
Accredited schools.....	85 90		85 90	
Preparatory year fees.....		596 67	579 99	16 68
Music fees.....		218 00	218 00	
University students fees.....		3,295 00		3,295 00

## PAPER B—STATE APPROPRIATIONS.

	Received.	Expended	Balance.	Assigned.
Taxes on Minnesota lands.....	\$1,511 24	\$1,511 24	.....	.....
Buildings and grounds.....	2,500 00	2,500 00	.....	.....
Apparatus and material.....	1,500 00	1,191 21	\$308 79	\$308 79
Mechanical and architectural shops.....	2,000 00	1,674 21	325 79	325 79
Books and publications.....	1,000 00	1,000 00	.....	.....
Cabinets.....	500 00	145 75	354 25	354 25
Expenses of instruction.....	20,000 00	19,057 04	942 96	942 96
Heating Military Hall.....	3,500 00	3,030 86	469 14	469 14
Farm barn.....	2,500 00	2,500 00	.....	.....
Furniture.....	1,000 00	964 69	35 31	35 31
Natural science building.....	30,000 00	28,501 40	1,498 60	1,498 60
Furniture for new building.....	5,000 00	.....	5,000 00	.....
Metallurgical laboratory.....	4,000 00	3,953 25	46 75	46 75
	\$75,011 24	\$66,029 65	\$8,981 59	\$3,981 59
Illinois State Laboratory of Natural History.	9,650 27	6,041 89	3,608 38	1,858 76

## PAPER C—UNITED STATES FUND.

	Received.	Exp'ded.	Balance.	Assigned.
<i>Year ending June 30, 1890.</i>				
Before reported.....	\$13,000 00	\$13,000 00	.....	.....
Natural history.....	2,000 00	1,502 33	\$497 67	\$398 27
	\$15,000 00	\$14,502 33	\$497 67	\$398 27
<i>Year ending June 30, 1891.</i>				
Before reported.....	\$10,805 00	\$10,805 00	.....	.....
Architectural department.....	1,430 00	825 14	\$604 86	\$604 86
Geological laboratory.....	60 00	44 42	15 58	15 58
Botanical laboratory.....	50 00	50 00	.....	.....
College of engineering.....	700 00	626 88	73 12	73 12
Civil engineering.....	955 00	955 00	.....	.....
Library.....	2,000 00	1,604 29	395 71	395 71
	\$16,000 00	\$14,910 73	\$1,089 27	\$1,089 27
<i>Year ending June 30, 1892.</i>				
Before reported.....	\$2,390 00	\$2,390 00	.....	.....
Salaries for instruction.....	8,500 00	8,500 00	.....	.....
Library.....	2,000 00	.....	2,000 00	2,000 00
Architectural department.....	182 00	154 37	27 63	27 63
Mechanical.....	1,100 00	1,003 40	96 60	96 60
Civil engineering.....	260 00	213 83	46 17	46 17
English literature.....	150 00	30 23	119 77	119 77
Veterinary department.....	42 25	42 00	25	25
Chemical department, desks.....	350 00	.....	350 00	350 00
Metallurgical laboratory.....	100 00	.....	100 00	100 00
Electric laboratory.....	500 00	500 00	.....	.....
Entomological cabinet.....	875 00	875 00	.....	.....
Unassigned.....	550 75	.....	550 75	.....
	\$17,000 00	\$13,708 83	\$3,291 17	\$2,740 42

On motion of Mr. McLean, the Business Agent was instructed to report at the adjourned meeting the amount of annual income to be expected for the ensuing year from the proceeds of sales of Minnesota lands already made.

Appropriations of funds were made as asked in Paper E of the Business Agent's report, as follows:

APPROPRIATIONS.

Board expense.....	\$300 00
Salaries for instruction.....	11,890 83
services.....	897 50
Buildings and grounds.....	400 00
Fuel and lights.....	1,000 00
Stationery, printing, and postage.....	400 00
Advertising and catalogues.....	800 00
Mechanical department.....	200 00
Architectural.....	200 00
Agricultural.....	200 00
Horticultural.....	100 00
Military.....	100 00
Laboratories.....	250 00
Library and apparatus.....	50 00
Incidentals.....	250 00
Water supply.....	100 00
Furniture and fixtures.....	200 00
Gymnasium.....	50 00
Military scholarship.....	60 00
Accredited schools.....	100 00
Minnesota lands.....	200 00
Commencement.....	181 05
Art gallery repairs.....	18 15
University extension.....	351 69
Farm barn.....	941 43
Brick floor and shelving.....	200 00
Total.....	\$19,440 65

The following resolutions were reported by the special committee appointed to prepare them, and were adopted by the Board:

WHEREAS, We learn that Professor Nathaniel Butler, Jr., has been called to, and has accepted a position in, another sphere of labor. Therefore be it

*Resolved*, That, Professor Butler having served the University faithfully, earnestly, and successfully, our relations are severed with regret, and we hereby tender Professor Butler our best wishes for his future success and continued prosperity.

ALEX. MCLEAN, }  
G. R. SHAWHAN, } *Committee.*

WHEREAS, Miss Clara Maud Kimball, our instructor of music, has decided to retire for the present from the department she has so ably conducted, be it

*Resolved*, That the members of this Board do hereby tender to Miss Kimball their thanks for her earnest and successful labors here, and their sincere wishes for her future prosperity.

ALEX. MCLEAN, }  
G. R. SHAWHAN, } *Committee.*

The Executive Committee reported that May 5th it gave Professor Morrow leave of absence for 30 days, that he might attend the meeting of the General Assembly of the Presbyterian Church, at Portland, Oregon.

Professor S. W. Shattuck was appointed Business Agent for the ensuing year at a salary of \$600 a year.

Mr. Cleaves Bennett was appointed Assistant Librarian with a salary of \$850 for the ten months beginning Sept. 1, 1892.

Mr. A. B. Baker was appointed janitor for the ensuing year at a salary of \$840 a year.

The matter of repairs upon the furnaces in the boiler house was referred to the Committee on Buildings and Grounds with power to act.

The Board then adjourned to meet June 27, 1892, at 9 o'clock a. m., in the Grand Pacific Hotel, in Chicago.

W. L. PILLSBURY,

*Secretary.*

S. A. BULLARD,

*President.*

### 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:

<b>1. Engineering College.</b>		
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
<b>2. Library Building.</b>		
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
<b>3. Museum Building.</b>		
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.*

*List of Warrants for the Year Ending August 31, 1892.*

No.	Date.	To Whom.	For What.	Amount.
1891.				
1	Sept. 9	S. A. Bullard	Expense to Board meetings	\$33 96
2	9	Henry Raab	"	11 70
3	9	J. H. Bryant	"	21 74
4	9	W. W. Clemens	"	38 96
5	9	N. W. Graham	"	56 19
6	9	J. W. Bunn	Premium on bonds	1,199 00
7	15	G. E. Morrow	Expense to agricultural convention	37 50
8	15	E. H. Farrington	"	37 50
9	15	Union Water Supply Co.	Water, 3 months, to October 1, 1891	100 00
10	15	F. K. Robeson & Bro.	Carpet	33 37
11	15	N. C. Ricker	Fullerton's Architectural Examples	4 80
12	15	Champaign County Herald	Advertisement	7 50
13	15	Champaign Times	"	3 00
14	15	Thoma- Wright & Sons	Coke and pig iron	33 58
15	15	C. Schoenhof	Fremy Cyclopedia	1 19
16	15	School of Mines Quarterly	Subscription	2 00
17	15	McDonnell Bros	Century Dictionary	5 00
18	15	A. E. Foote	Books	1 30
19	15	A. C. McClurg & Co.	Books and papers	11 88
20	15	Milton George	Advertisement	9 00
21	15	Advance Publishing Co.	"	10 80
22	15	Engineering News	"	3 71
23	15	E. Snyder	Mimeograph materials	5 00
24	15	Chicago Shafting & Pulley Co	Pulley	2 70
25	15	Mrs. S. Potter	Wax models	68 25
26	30	T. J. Burrill	Salary, September, 1891	250 00
27	30	S. W. Shattuck	"	166 66
28	30	E. Snyder	"	166 66
29	30	N. C. Ricker	"	166 66
30	30	J. D. Crawford	"	166 66
31	30	G. E. Morrow	"	166 66
32	30	I. O. Baker	"	166 66
33	30	S. A. Forbes	"	83 33
34	30	J. H. Brownlee	"	166 66
35	30	C. W. Rolfe	"	166 66
36	30	D. McIntosh	"	150 00
37	30	N. Butler, Jr	"	166 66
38	30	A. N. Talbot	"	150 00
39	30	A. W. Palmer	"	150 00
40	30	F. F. Frederick	"	150 00
41	30	S. W. Parr	"	150 00
42	30	M. R. Paradis	"	150 00
43	30	H. J. Barton	"	166 66
44	30	Charles M. Moss	"	150 00
45	30	S. W. Stratton	"	133 33
46	30	W. J. Baldwin	"	133 33
47	30	G. W. Myers	"	100 00
48	30	G. W. Parker	"	115 00
49	30	R. Anderson	"	133 33
50	30	H. S. Brode	"	100 00
51	30	H. S. Grindley	"	100 00
52	30	E. S. Keene	"	85 00
53	30	J. M. White	"	85 00
54	30	Clara Maud Kimball	"	30 00
55	30	Edith A. Shattuck	"	50 00
56	30	T. A. Clark	"	75 00
57	30	J. H. Powell	"	60 00
58	30	G. M. Hobbs	"	60 00
59	30	R. H. Forbes	"	60 00
60	30	Cleaves Bennett	"	85 00
61	30	Grace Peabody	"	40 00
62	30	Anna F. Shattuck	"	15 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
63	Sept. 30	A. B. Baker	Salary, September, 1891	\$70 00
64	" 30	A. J. Stoneburner	" "	15 00
65	" 30	H. Jeakins	" "	20 00
66	" 30	W. A. Brown	" "	25 00
67	" 30	L. H. Walden	" "	12 50
68	" 30	A. Itan	" "	12 50
69	" 30	John Marten	" "	85 33
70	" 30	Mary J. Snyder	" "	62 50
71	" 30	C. A. Hart	" "	62 50
72	" 30	N. C. Ricker	Services as architect	750 00
73	" 30	J. W. Franks & Sons	Printing bulletins	351 78
74	" 30	Boston Photogravure Co.	Colored photos	344 97
75	" 30	McIntosh Optical Co.	Stereopticon, etc	162 40
76	Oct. 15	N. W. Graham	Board expense	13 41
77	" 15	American Contractor	Advertisement	13 50
78	" 15	V. Jobst	Labor on contract	86 40
79	" 15	L. W. Faulkner & Co.	Oil, etc.	23 86
80	" 15	J. W. Butler Paper Co.	Paper	21 25
81	" 15	A. H. Andrews & Co.	Chairs and settees	228 80
82	" 15	The Interior	Advertising	2 25
83	" 15	Engineering Record	" "	4 80
84	" 15	Living Church	" "	2 00
85	" 15	Plowman Publishing Co.	" "	3 00
86	" 15	Illinois State Journal	" "	7 50
87	" 15	Illinois State Register	" "	6 40
88	" 15	Howard & Wilson	" "	13 50
89	" 15	Breeders' Gazette	" "	15 00
90	" 15	J. W. Spalding	Postage	43 00
91	" 15	American Express Co.	Freight charges	8 00
92	" 15	S. A. Forbes	Expenses	60 58
93	" 15	Lilly M. Hart	Drawing, etc	3 35
94	" 15	Alice M. Barber	Labeling specimens	51 45
95	" 15	Illinois Central R. R. Co.	Freight charges	22 62
96	" 15	C. C. & St. L. R'y Co.	" "	48 81
97	" 15	Wabash R. R. Co.	" "	3 87
98	" 15	Pacific Express Co.	" "	18 40
99	" 15	American Express Co.	" "	23 25
100	" 15	Agricultural department	Expenses, September, 1891	284 70
101	" 15	Empire Cordage Co.	Rope	1 00
102	" 15	George Kimball	Painting blackboard	4 02
103	" 15	Champaign Gas Co.	Gas	20 80
104	" 15	G. W. Parker	Expenses	8 45
105	" 15	D. A. Stuart & Co.	Engine oil	12 50
106	" 15	Knowlton & Bennett	Sperm oil, etc	1 30
107	" 15	Goodyear Rubber Co.	Rubber tubing	30 60
108	" 15	F. P. Rush & Co.	Coal	10 05
109	" 15	F. K. Robeson & Bro.	Dry goods	38 29
110	" 15	E. Snyder	Mimeograph, etc	12 18
111	" 15	Western Electric Co.	Castings	6 76
112	" 15	F. F. Frederick	Drawing room supplies	4 48
113	" 15	Central Union Telephone Co.	Rent 3 months	15 00
114	" 15	J. M. Dashiell	Expenses	49 15
115	" 15	Mrs. E. C. Newton	Cattle ties	10 50
116	" 15	D. H. Lloyd & Son	Rods, tapes, etc	50 95
117	" 15	Fauth & Co.	Transit, etc	469 30
118	" 15	J. B. Garvin	Collecting specimens	125 00
119	" 15	Ward's N. S. Establishment	Models	78 00
120	" 15	Samuel Harris & Co.	Machinist's supplies	33 54
121	" 15	Charles H. Besley & Co.	Brass, etc	5 49
122	" 15	J. A. Fay & Co.	Belting	23 76
123	" 15	U. S. Electric Light Co.	Motor, etc	134 00
124	" 15	Pay-roll of men	Labor	453 51
125	" 15	Pay-roll of students	" "	145 71
126	" 31	T. J. Burrill	Salary, October, 1891	250 00
127	" 31	S. W. Shattuck	" "	166 66
128	" 31	E. Snyder	" "	166 66
129	" 31	N. C. Ricker	" "	166 66
130	" 31	J. D. Crawford	" "	166 66
131	" 31	G. E. Morrow	" "	166 66
132	" 31	L. O. Baker	" "	166 66
133	" 31	S. A. Forbes	" "	83 33
134	" 31	J. H. Brownlee	" "	166 66
135	" 31	C. W. Rolfe	" "	166 66
136	" 31	D. McIntosh	" "	150 00
137	" 31	N. Butler, Jr.	" "	166 66
138	" 31	A. N. Talbot	" "	150 00
139	" 31	A. W. Palmer	" "	150 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
140	Oct. 31	F. F. Fredrick	Salary, October, 1892.	150 00
141	" 31	S. W. Parr	" "	150 00
142	" 31	M. R. Paradis	" "	150 00
143	" 31	H. J. Barton	" "	166 66
144	" 31	Charles M. Moss	" "	150 00
145	" 31	S. W. Stratton	" "	133 33
146	" 31	W. J. Baldwin	" "	133 33
147	" 31	G. W. Myers	" "	100 00
148	" 31	G. W. Parker	" "	115 00
149	" 31	R. Anderson	" "	133 33
150	" 31	H. S. Brode	" "	100 00
151	" 31	H. S. Grindley	" "	100 00
152	" 31	E. S. Keene	" "	85 00
153	" 31	J. M. White	" "	85 00
154	" 31	Clara Maud Kimball	" "	30 00
155	" 31	Edith A. Shattuck	" "	50 00
156	" 31	T. A. Clark	" "	75 00
157	" 31	J. H. Powell	" "	60 00
158	" 31	G. M. Hobbs	" "	60 00
159	" 31	R. H. Forbes	" "	60 00
160	" 31	Cleaves Bennett	" "	85 00
161	" 31	Grace Peabody	" "	40 00
162	" 31	Anna F. Shattuck	" "	15 00
163	" 31	A. B. Baker	" "	70 00
164	" 31	A. J. Stoneburner	" "	30 00
165	" 31	H. Jenkins	" "	40 00
166	" 31	W. A. Brown	" "	25 00
167	" 31	L. H. Walden	" "	25 00
168	" 31	A. Itan	" "	25 00
169	" 31	John Marten	" "	83 33
170	" 31	Mary J. Snyder	" "	62 50
171	" 31	C. A. Hart	" "	62 50
172	" 31	A. P. Cunningham & Son	Chemical supplies	15 08
173	" 31	Hammond Typewriter Co.	Cabinet	22 50
174	" 31	A. C. McClurg & Co.	Jordan's Manual	18 75
175	" 31	Eimer & Amend	Microscope, etc.	387 84
176	" 31	N. Butler, Jr.	Expenses to Kankakee	3 16
177	" 31	J. H. Brownlee	Expenses to Olney	12 20
178	" 31	A. B. Seymour	Paper	3 00
179	" 31	S. H. Peabody	Books	36 75
180	" 31	Publishers' Weekly	American Catalogue	5 00
181	" 31	McDonnell Bros	Century Dictionary	5 00
182	" 31	David G. Francis	Book	3 31
183	" 31	J. R. Greenhalgh	"	2 00
184	" 31	B. J. Karle	Boxes	2 00
185	" 31	W. H. Dietz	Stamp	2 50
186	" 31	E. H. Sargent & Co.	Vials and corks	7 60
187	" 31	Beardsley & Stipes	Sand	1 50
188	" 31	G. H. French	Expenses of field trips	18 60
189	" 31	S. A. Forbes	Expenses	26 99
190	" 31	C. A. Hart	"	8 43
191	" 31	J. W. Spalding	Postage stamps	20 00
192	" 31	Gundlach Opt. Co.	Repairing	3 50
193	" 31	A. E. Foote	Minerals	91 45
194	" 31	Richards & Co.	Chemical apparatus	252 56
195	" 31	S. W. Parr	Platinum crucibles, etc.	38 70
196	" 31	W. & L. E. Gurley	Compass	45 00
197	" 31	Central Electric Co.	Battery jars	2 59
198	" 31	Taylor & Son	Cells	6 40
199	" 31	Jas. W. Queen & Co.	Apparatus	465 15
200	" 31	Clara Maud Kimball	Music fees	18 00
201	Nov. 14	V. Jobst	On building contract	3,457 38
202	" 14	Springfield Cem't Walk Co.	Cement walks	619 37
203	" 14	J. B. Clow & Son	Pipe and fittings	73 98
204	" 14	Yale & Towne Mfg. Co.	Locks	13 83
205	" 14	Stearn's Lime & Stone Co.	Fire clay	4 25
206	" 14	Ill. Soc. of Eng. & Surveyors	Advertisement	10 00
207	" 14	Heer & Seelig	Marking pins	16 50
208	" 14	N. O. Holst	Collection of plants	75 00
209	" 14	Edison Mfg Co	Cells, etc.	8 42
210	" 14	E. S. Greeley & Co.	Wire	2 97
211	" 14	Bausch & Lomb Opt. Co.	Microscope, etc.	82 31
212	" 14	W. Electric Co	Fittings	5 89
213	" 14	Chicago Shaft & Pulley Co.	Pulleys	50 03
214	" 14	S. W. Stratton	Lamps and globes	6 00
215	" 14	A. C. McClurg & Co.	Books, etc.	24 57
216	" 14	Jas. W. Queen & Co.	Chronograph	351 40
217	" 14	Eimer & Amend	Apparatus	54 78

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
218	Nov. 14.	N. W. Davis	Sand	\$11 18
219	14.	G. T. Christianson	Commission on land sale	6 00
220	14.	H. T. Reed	Drill regulations	39 45
221	14.	H. B. Rowe	Band, music	3 50
222	14.	S. A. Forbes	Expenses to Chicago	10 68
223	14.	B. F. Stevens	Books	8 27
224	14.	R. H. Forbes	Expenses for Chem. Lab.	5 55
225	14.	Macomb Stoneware Co.	Ground clay	3 05
226	14.	S. P. Atkinson & Co.	Labor	2 75
227	14.	Illinois Central R. R. Co.	Freight charges	182 31
228	14.	C. C. C. & St. L. R'y Co.	"	41 92
229	14.	Wabash R. R. Co.	"	14 48
230	14.	American Express Co.	"	14 85
231	14.	Pacific Express Co.	"	15 80
232	14.	Western Union Tel. Co.	Charges	5 94
233	14.	Hamilton & Russell	Crates and boxes	2 85
234	14.	Agric. Dept. U. of I.	Expenses, October, 1891	228 61
235	14.	Pay roll of students	Labor, October, 1891	212 59
236	14.	Pay roll of men	"	320 59
237	30.	Cleaves Bennett	Salary, November, 1891	85 00
238	30.	Grace Peabody	"	40 00
239	30.	Anna F. Shattuck	"	15 00
240	30.	A. B. Baker	"	70 00
241	30.	A. J. Stoneburner	"	30 00
242	30.	H. Jenkins	"	40 00
243	30.	W. A. Brown	"	25 00
244	30.	L. H. Walden	"	25 00
245	30.	A. Itan	"	25 00
246	30.	John Marten	"	83 33
247	30.	Mary J. Snyder	"	62 50
248	30.	C. A. Hart	"	62 50
249	30.	W. L. Pillsbury	"	125 00
250	30.	S. W. Shattuck	"	150 00
251	30.	T. J. Burrill	November, 1891	250 00
252	30.	S. W. Shattuck	"	166 66
253	30.	E. Snyder	"	166 66
254	30.	N. C. Ricker	"	166 66
255	30.	J. D. Crawford	"	166 66
256	30.	G. E. Morrow	"	166 66
257	30.	I. O. Baker	"	166 66
258	30.	S. A. Forbes	"	83 33
259	30.	J. H. Brownlee	"	166 66
260	30.	C. W. Rolfe	"	166 66
261	30.	D. McIntosh	"	150 00
262	30.	N. Butler, Jr.	"	166 66
263	30.	A. N. Talbot	"	150 00
264	30.	A. W. Palmer	"	150 00
265	30.	F. F. Frederick	"	150 00
266	30.	S. W. Parr	"	150 00
267	30.	M. R. Paradis	"	150 00
268	30.	H. J. Barton	"	166 66
269	30.	Cha. M. Moss	"	150 00
270	30.	S. W. Stratton	"	133 33
271	30.	W. J. Baldwin	"	133 33
272	30.	G. W. Myers	"	100 00
273	30.	G. W. Parker	"	115 00
274	30.	R. Anderson	"	133 33
275	30.	H. S. Brode	"	100 00
276	30.	H. S. Grinley	"	100 00
277	30.	E. S. Keene	"	85 00
278	30.	J. M. White	"	85 00
279	30.	Clara Maud Kimball	"	30 00
280	30.	Edith A. Shattuck	"	50 00
281	30.	T. A. Clark	"	75 00
282	30.	J. H. Powell	"	60 00
283	30.	G. M. Hobbs	"	60 00
284	30.	R. H. Forbes	"	60 00
285	30.	Geo. Besore	Lumber	128 29
286	30.	Henry Trevett	Hardware	84 29
287	30.	J. Bainum	Plastering	53 37
288	30.	D. H. Lloyd & Son	Curtains	25 10
289	30.	Library Bureau	Accessions book	14 25
290	30.	Houghton, Mifflin & Co.	Books	11 50
291	30.	W. J. Baldwin	Freight charges	54 96
292	30.	N. O. Ricker	Expenses	3 78
293	30.	Fuller & Fuller Co.	Glass, etc	63 98

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
<b>1891.</b>				
294	Nov. 30	Horns' Coalery Co.	Coal	\$132 55
295	" 30	Robinson & Burr.	Labor and fittings	14 95
296	" 30	Ward's U. S. Establishment.	Apparatus	40 00
297	" 30	Agric. Experiment Station.	Books	28 96
298	" 30	G. C. Willis.	Towels	7 50
299	" 30	Orange Judd Farmer	Advertising	9 00
300	" 30	A. C. McClurg & Co.	Stationery	20 80
301	" 30	W. L. Pillsbury	Expense to Minn. lands.	92 83
302	" 30	Maltby & Wallace	Repairs, etc.	6 85
303	" 30	J. A. Fay & Co.	Belting	8 77
304	" 30	Champaign Gas Co.	Gas and coke	143 35
305	" 30	A. B. Dick & Co.	Plate	3 50
306	" 30	N. W. Calcium Light Co.	Can of lim s.	1 00
307	" 30	Geo. B. Carpenter & Co.	Flags	51 67
308	" 30	J. W. Spalding	Postage	25 00
309	" 30	J. Marten	Traveling expenses	30 00
310	" 30	C. A. Hart	"	12 13
311	" 30	H. C. Forbes	"	35 20
312	" 30	S. A. Forbes	Telegrams and expenses	5 51
313	" 30	F. W. Goding	Handbuch, etc.	2 75
314	" 30	Sout wick & Critchley	Pins	5 62
315	" 30	C. V. Riley	Cut of a bug	2 50
316	" 30	E. R. Welshley & Co.	Case of drawers	21 00
317	" 30	A. E. Foote	Minerals	264 75
318	" 30	Douglass & Shuey Co.	Kodak and outfit	73 90
319	" 30	Richards & Co.	Chemical apparatus, etc.	893 87
320	" 30	W. Stone Co.	D or sills	54 16
321	" 30	J. W. Queen & Co.	Apparatus	302 38
322	" 30	Machinists' Supply Co.	Tool	106 90
323	" 30	Hill, Clarke & Co.	Tool-room miller	540 27
324	" 30	Bliss, Bullard & Gormley	Hardware	308 58
325	" 30	Architectural department	Labor and material	843 18
326	Dec. 15	V. Jobst	Building contract	5,688 71
327	" 15	Thomas Kerr	Inspector on building	60 00
328	" 15	S. A. Bullard	Expense to B'rd and committee mt'gs	55 34
329	" 15	A. McLean	Board meeting	19 39
330	" 15	W. W. Clemens	"	19 50
331	" 15	LaFayette Funk	"	5 35
332	" 15	F. M. McKay	"	17 50
333	" 15	R. P. Morgan	"	27 85
334	" 15	J. W. Bunn	Premium on bonds	630 00
335	" 15	J. W. Bunn	Taxes on Neb. lands	41 50
336	" 15	Springfield Cement Walk Co.	Balance on walks	32 90
337	" 15	Mrs. S. Potter	Wax models of fruits	54 00
338	" 15	Henry Garrett	Mineral specimens	50 16
339	" 15	Agricultural department	Expense, November, 1891	313 94
340	" 15	J. C. Vaughan	Bulbs, etc.	10 82
341	" 15	J. W. Spalding	Postage	17 00
342	" 15	H. J. Barton	Expense visiting schools	19 02
343	" 15	I. O. Baker	"	6 76
344	" 15	Ill. Cent. R. R. Co.	Freight charges	102 52
345	" 15	C. C. C. & St. L. Ry Co.	"	17 36
346	" 15	Frank Wilson	Removing effigy	25 00
347	" 15	Chicago W. Lead & Oil Co.	Lead	29 63
348	" 15	Richards & Co.	Platinum dishes	199 62
349	" 15	Pay roll of students	Labor, November, 1891	213 92
350	" 15	Pay roll of men	"	538 56
351	" 31	T. J. Burrill	Salary, December, 1891	250 00
352	" 31	S. W. Shattuck	"	166 66
353	" 31	E. Snyder	"	166 66
354	" 31	N. C. Ricker	"	166 66
355	" 31	J. D. Crawford	"	166 66
356	" 31	G. E. Morrow	"	166 66
357	" 31	I. O. Baker	"	166 66
358	" 31	S. A. Forbes	"	83 33
359	" 31	J. H. Brownlee	"	166 66
360	" 31	C. W. Rolfe	"	166 66
361	" 31	D. McIntosh	"	150 00
362	" 31	N. Butler, Jr.	"	166 66
363	" 31	A. N. Talbot	"	150 00
364	" 31	A. W. Palmer	"	1 0 00
365	" 31	F. F. Frederick	"	150 00
366	" 31	S. W. Parr	"	150 00
367	" 31	M. R. Paradis	"	150 00
368	" 31	H. J. Barton	"	166 66
369	" 31	Chas. M. Moss	"	150 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1891.			
370	ec. 31....	S. W. Stratton .....	Salary, December, 1891.....	\$133 33
371	" 31....	W. J. Baldwin.....	" .....	133 33
372	" 31....	G. W. Myers.....	" .....	100 00
373	" 31....	G. W. Parker.....	" .....	115 00
374	" 31....	R. Anderson.....	" .....	133 33
375	" 31....	H. S. Brode.....	" .....	100 00
376	" 31....	H. S. Grindley.....	" .....	100 00
377	" 31....	E. S. Keene.....	" .....	85 00
378	" 31....	J. M. White.....	" .....	85 00
379	" 31....	Clara Maud Kimball.....	" .....	30 00
380	" 31....	Edith A. Shattuck.....	" .....	50 00
381	" 31....	T. A. Clark.....	" .....	75 00
382	" 31....	J. H. Powell.....	" .....	60 00
383	" 31....	G. M. Hobbs.....	" .....	60 00
384	" 31....	R. H. Forbes.....	" .....	60 00
385	" 31....	Cleaves Bennett.....	" .....	85 00
386	" 31....	Grace Peabody.....	" .....	40 00
387	" 31....	Anna F. Shattuck.....	" .....	15 00
388	" 31....	A. B. Baker.....	" .....	70 00
389	" 31....	A. J. Stoneburner.....	" .....	30 00
390	" 31....	H. Jenkins.....	" .....	40 00
391	" 31....	W. A. Brown.....	" .....	25 00
392	" 31....	L. H. Walden.....	" .....	25 00
393	" 31....	A. Itan.....	" .....	25 00
394	" 31....	John Marten.....	" .....	83 33
395	" 31....	Mary J. Snyder.....	" .....	62 50
396	" 31....	C. A. Hart.....	" .....	62 50
397	" 31....	Nat. Typewriter Exchange.....	Typewriter and cabinet.....	90 00
398	" 31....	Cincinnati Corrugating Co.....	Iron and nails.....	93 51
399	" 31....	Lyon & Healy.....	Music.....	16 76
400	" 31....	Fairbanks, Morse & Co.....	Scale and weights.....	20 00
401	" 31....	H. Chester.....	Hack hire.....	3 00
402	" 31....	Public School Publishing Co.....	Advertisement.....	6 00
403	" 31....	The Interior.....	" .....	2 25
404	" 31....	Hektograph Mfg. Co.....	Refilling hektograph.....	3 03
405	" 31....	The Illini.....	Advertising.....	16 66
406	" 31....	Ludington, Wells & VanS. Co.....	Lumber.....	426 54
407	" 31....	Heer & Seelig.....	Sextant.....	93 00
408	" 31....	Eimer & Amend.....	Repairs.....	10 45
409	" 31....	Jas. W. Queen & Co.....	Electric apparatus.....	64 40
410	" 31....	W. W. Abbott.....	Picture mats.....	5 00
411	" 31....	A. H. Andrews & Co.....	Castings for settees.....	5 25
412	" 31....	H. C. Marsh.....	Mitre machine and saw.....	12 00
413	" 31....	L. W. Faulkner & Co.....	Oil, etc.....	39 94
414	" 31....	Ticknor & Co.....	American Architect.....	25 00
415	" 31....	McDonnell Bros.....	Century Dictionary.....	2 50
416	" 31....	Thomas Wright & Son.....	Castings.....	37 26
417	" 31....	A. Bevis.....	Blue-prints.....	15 50
418	" 31....	N. W. Davis.....	Sand.....	22 75
419	" 31....	A. M. Coffeen.....	Coal.....	64 50
420	" 31....	J. B. Sivertson.....	Flag pole, etc.....	173 79
421	" 31....	Walker & Mulliken.....	Chairs, etc.....	99 12
422	" 31....	Union Water Supply Co.....	Water, 3 months.....	100 00
423	" 31....	C. M. Moss.....	Expenses to Chicago.....	9 75
424	" 31....	Keuffel & Esser Co.....	Computing instrument.....	192 50
425	" 31....	J. W. Spalding.....	Postage.....	21 00
	1892.			
426	Jan. 15....	Valentine Jobst.....	Contract on building.....	4,084 12
427	" 15....	Maltby & Wallace.....	Heating apparatus.....	2,000 00
428	" 15....	N. W. Graham.....	Expense to Board meeting.....	33 39
429	" 15....	F. P. Smith.....	Iron window guards.....	47 90
430	" 15....	Fuller & Fuller Co.....	Glass.....	88 04
431	" 15....	George Besore.....	Lumber.....	324 42
432	" 15....	T. R. White, Jr.....	Gas, November and December, 1891.....	218 40
433	" 15....	Muddy Valley Mining Co.....	Coal.....	107 25
434	" 15....	Horns' Coalery Co.....	" .....	35 63
435	" 15....	G. W. Miller.....	Greenhouse stock.....	21 30
436	" 15....	J. D. Carmody.....	Five box sections, etc.....	31 00
437	" 15....	Am. Ass'n. for Adv. of Sc.....	Publications.....	53 75
438	" 15....	G. W. Barker.....	Book.....	1 50
439	" 15....	A. E. Foote.....	Books.....	73 70
440	" 15....	Bausch & Lomb Opt. Co.....	Objectives, etc.....	424 99
441	" 15....	Sheldon Brick Co.....	Brick.....	310 70
442	" 15....	Douglass & Shuey Co.....	Lens, etc.....	77 47
443	" 15....	Henry J. Green.....	Thermometers.....	38 40
444	" 15....	A. L. Ide & Son.....	Ideal engine and base.....	600 00
445	" 15....	Jas. W. Queen & Co.....	Balance, etc.....	104 59
446	" 15....	Ames & Frost Co.....	Lumber.....	4 55



*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
447	Jan. 15	Wabash R. R. Co.	Freight charges	\$2 54
448	" 15	Pacific Express Co.	" "	7 05
449	" 15	C. C. C. & St. L. R'y. Co.	" "	2 71
450	" 15	Ill. Cent. R. R. Co.	" "	141 18
451	" 15	Samuel Harris & Co.	Countershaft	3 75
452	" 15	J. A. Fay & Co.	Belt	2 23
453	" 15	Chi. Shafting & Pulley Co.	Pulleys	1 88
454	" 15	Electric Supply Co.	Battery	19 00
455	" 15	V. Baker	Ice	2 60
456	" 15	Goodyear Rubber Co.	Rubber tubing	7 20
457	" 15	Richard Kny & Co.	Charts	1 72
458	" 15	Central Union Tel. Co.	Rent	15 00
459	" 15	Stearns Lime & Stone Co.	Stucco	2 00
460	" 15	W. J. Carson	Papers	7 50
461	" 15	Clara Maud Kimball	Fees and music	200 50
462	" 15	H. W. Rokker	Circulars	16 00
463	" 15	Am. Soc. for Ext. of U. T.	Pamphlets	4 66
464	" 15	J. M. Denton	Subscription	2 00
465	" 15	S. A. Forbes	Expenses	72 84
466	" 15	H. C. Forbes	Traveling expenses	34 36
467	" 15	Lilly M. Hart	Drawings	17 15
468	" 15	J. W. Spalding	Postage	15 50
469	" 15	W. U. Telegraph Co.	Charges for telegrams	2 77
470	" 15	Bundy & Mitchell	Repairs on saws	20 00
471	" 15	B. Edwards & Co.	Advertisement	4 65
472	" 15	American Express Co.	Express charges	14 05
473	" 15	Agricultural department	Expenses, December, 1891	143 73
474	" 15	Pay roll of men	Labor	349 71
475	" 15	Pay roll of students	"	327 07
476	" 30	T. J. Burrill	Salary, January, 1892	250 00
477	" 30	S. W. Shattuck	" "	166 66
478	" 30	E. Synder	" "	166 66
479	" 30	N. C. Ricker	" "	166 66
480	" 30	J. D. Crawford	" "	166 66
481	" 30	G. E. Morrow	" "	166 66
482	" 30	I. O. Baker	" "	166 66
483	" 30	S. A. Forbes	" "	83 33
484	" 30	J. H. Brownlee	" "	166 66
485	" 30	C. W. Rolfe	" "	166 66
486	" 30	D. McIntosh	" "	150 00
487	" 30	N. Butler, Jr.	" "	166 66
488	" 30	A. N. Talbot	" "	150 00
489	" 30	A. W. Palmer	" "	150 00
490	" 30	F. F. Frederick	" "	150 00
491	" 30	S. W. Parr	" "	150 00
492	" 30	M. R. Paradis	" "	150 00
493	" 30	H. J. Barton	" "	166 66
494	" 30	Charles M. Moss	" "	150 00
495	" 30	S. W. Stratton	" "	133 33
496	" 30	W. J. Baldwin	" "	133 33
497	" 30	G. W. Myers	" "	100 00
498	" 30	G. W. Parker	" "	115 00
499	" 30	E. Anderson	" "	133 33
500	" 30	H. S. Brode	" "	100 00
501	" 30	H. S. Grindley	" "	100 00
502	" 30	E. S. Keene	" "	85 00
503	" 30	J. M. White	" "	85 00
504	" 30	Clara Maud Kimball	" "	30 00
505	" 30	Edith A. Shattuck	" "	50 00
506	" 30	T. A. Clark	" "	75 00
507	" 30	J. H. Powell	" "	60 00
508	" 30	G. M. Hobbs	" "	60 00
509	" 30	H. H. Forbes	" "	60 00
510	" 30	Cleaves Bennett	" "	85 00
511	" 30	Grace Peabody	" "	40 00
512	" 30	Anna F. Shattuck	" "	15 00
513	" 30	A. B. Baker	" "	70 00
514	" 30	A. J. Stoneburner	" "	30 00
515	" 30	H. Jeakins	" "	40 00
516	" 30	W. A. Brown	" "	25 00
517	" 30	L. H. Wallen	" "	25 00
518	" 30	A. Far	" "	25 00
519	" 30	John Marten	" "	83 33
520	" 30	Mary J. Snyder	" "	62 50
521	" 30	C. A. Hart	" "	62 50
522	" 30	H. C. Forbes	Services and expenses	123 49
523	" 30	John Marten	Traveling expenses	16 28

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
524	Jan. 30.	S. A. Forbes	Traveling expenses	\$14 60
525	" 30.	D. H. Lloyd & Son	Books	594 69
526	" 30.	G. C. Willis	Dry goods	10 45
527	" 30.	A. P. Cunningham	Books and laboratory supplies	36 13
528	" 30.	C. Hennecke & Co	Paper	3 00
529	" 30.	Nat. Type-writer Ex.	Stencil paper, etc.	4 50
530	" 30.	S. R. R. berts	Manual of Conchology	12 00
531	" 30.	G. E. Stechert	Books	13 50
532	" 30.	Am. Monthly Micro. Journal	Subscription	2 12
533	" 30.	Educational Supply Co.	Zeiss's camera lucida	9 05
534	" 30.	N. D. C. Hodges	Subscription to Science	3 50
535	" 30.	E. H. Sargent & Co	Laboratory supplies	9 66
536	" 30.	Thayer & Jackson Sta. Co.	Papers, etc.	10 70
537	" 30.	Blomgren Bros. & Co.	Photo-engraving	1 05
538	" 30.	L. M. Haupt	Pamphlets	2 45
539	" 30.	Bates, Kimball & Guild	Architectural Review	5 00
540	" 30.	John Wanamaker	Lantern slides	52 20
541	" 30.	Maltby & Wallace	Pressure regulator	60 00
542	" 30.	Union Brick & Tile Co.	Tile	3 42
543	" 30.	E. R. Welshley & Co.	Cabinet and drawing	21 00
544	" 30.	Craie Co.	Pipe radiator	30 00
545	" 30.	R. S. Wilber	Drayage	77 85
546	" 30.	Field Miller	Tuning pianos	5 50
547	" 30.	Champaign Co. Herald	Printing programmes	4 00
548	" 30.	J. W. Shuck	Tables	7 50
549	" 30.	Liquid Carb. Acid Mfg Co.	Acid	4 25
550	" 30.	Kenyon News Co.	Subscriptions	317 65
551	Feb. 15.	Thos. Kerr	Superintendent on building	6 00
552	" 15.	Lester Kerr	Building chimney	219 00
553	" 15.	Maltby & Wallace	Heating Military Hall	160 00
554	" 15.	W. J. Baldwin	Coke and drayage	2 25
555	" 15.	Robinson & Burr	Machines, labor, etc.	275 39
556	" 15.	C. A. Hart	Traveling expenses	9 72
557	" 15.	Art Publishing Co.	Colored plates	35 03
558	" 15.	Wabash Railroad Co.	Freight charges	41 35
559	" 15.	C. C. C. & St. L. Ry.	" "	21 16
560	" 15.	Illinois Central Railroad Co.	" "	435 95
561	" 15.	Pacific Express Co.	" "	6 25
562	" 15.	American Express Co.	" "	33 30
563	" 15.	S. W. Shattuck	Petty expenses, three months	39 19
564	" 15.	C. M. Moss	Expenses to visit school	11 85
565	" 15.	H. J. Barton	" "	2 25
566	" 15.	J. H. Spalding	Postage	25 50
567	" 15.	Presbyterian Board of Pub.	Minutes of assembly	1 50
568	" 15.	E. O. Valle	List of names	1 00
569	" 15.	Congreg. S. S. Pub. Society	Year book	1 00
570	" 15.	Amer. Society Univer. Ex.	Syllabuses	6 70
571	" 15.	J. T. Harris	Cloth	3 76
572	" 15.	I. O. Baker	Repairs and supplies	3 10
573	" 15.	Lilly M. Hart	Drawings	25 55
574	" 15.	Pay roll of men, Jan., 1892	Labor	466 90
575	" 15.	Pay roll of students	" "	279 59
576	" 29.	T. J. Burrill	Salary, February, 1892	250 00
577	" 29.	S. W. Shattuck	" "	166 66
578	" 29.	E. Snyder	" "	166 66
579	" 29.	N. C. Ricker	" "	166 66
580	" 29.	J. D. Crawford	" "	166 66
581	" 29.	G. E. Morrow	" "	166 66
582	" 29.	I. O. Baker	" "	166 66
583	" 29.	S. A. Forbes	" "	83 33
584	" 29.	J. H. Brownlee	" "	166 66
585	" 29.	C. W. Rolfe	" "	166 66
586	" 29.	D. McIntosh	" "	150 00
587	" 29.	N. Butler, Jr	" "	166 66
588	" 29.	A. N. Talbot	" "	150 00
589	" 29.	A. W. Palmer	" "	150 00
590	" 29.	F. F. Frederick	" "	150 00
591	" 29.	S. W. Parr	" "	150 00
592	" 29.	M. R. Paradis	" "	150 00
593	" 29.	H. J. Barton	" "	166 66
594	" 29.	Chas. M. Moss	" "	150 00
595	" 29.	S. W. Stratton	" "	133 33
596	" 29.	W. J. Baldwin	" "	133 33
597	" 29.	G. W. Myers	" "	100 00
598	" 29.	G. W. Parker	" "	115 00
599	" 29.	R. Anderson	" "	133 33
600	" 29.	H. S. Brode	" "	100 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	<b>1892.</b>			
601	Feb. 29	H. S. Grindley	Salary, February, 1892	\$100 00
602	" 29	E. S. Keene	" "	85 00
603	" 29	J. M. White	" "	85 00
604	" 29	Clara Maud Kimball	" "	30 00
605	" 29	Edith A. Shattuck	" "	50 00
606	" 29	T. A. Clark	" "	75 00
607	" 29	J. H. Powell	" "	60 00
608	" 29	G. M. Hobbs	" "	60 00
609	" 29	R. M. Forbes	" "	60 00
610	" 29	Cleaves Bennett	" "	85 00
611	" 29	Grace Peabody	" "	40 00
612	" 29	Anna F. Shattuck	" "	15 00
613	" 29	A. B. Baker	" "	70 00
614	" 29	A. J. Stoneburner	" "	30 00
615	" 29	H. Jeakins	" "	40 00
616	" 29	W. A. Brown	" "	25 00
617	" 29	L. H. Walden	" "	25 00
618	" 29	A. Itan	" "	25 00
619	" 29	W. L. Pillsbury	Salary, 3 months	125 00
620	" 29	S. W. Shattuck	" "	150 00
621	" 29	John Marten	Salary, February, 1892	83 33
622	" 29	Mary J. Snyder	" "	62 50
623	" 29	C. A. Hart	" "	62 50
624	" 29	I. O. Baker	Traveling expenses	6 53
625	" 29	A. N. Talbot	Supplies	2 40
626	" 29	Thomas Kerr	Superintendent on new building	26 00
627	" 29	Agricultural department	Expenses, January, 1892	127 06
628	" 29	E. Dietzgen & Co.	Paper, cloth, etc	16 09
629	" 29	L. V. Manspeaker	Jars, soda, etc	28 36
630	" 29	Sou'e Photo. Co.	Slides	11 50
631	" 29	M. C. Lilley & Co.	Sword and belt	8 25
632	" 29	T. H. Trevett	Hardware	15 70
633	" 29	Oscar Miller	" "	13 50
634	" 29	H. L. Fairchild	Bulletins, etc	10 00
635	" 29	Paving and Municipal Eng.	Volume one	4 00
636	" 29	Carl Schoenhof	Books	12 18
637	" 29	N. A. Williams	Brick	39 15
638	" 29	Central Electric Co.	Supplies	21 31
639	" 29	Patrick & Carter Co.	Bells	16 00
640	" 29	Electric Supply Co.	Battery and wire	21 38
641	" 29	Fairmount Coal Co.	Coal	28 03
642	" 29	Bacon & Mittendorf	Chair seats, etc	2 40
643	" 29	Fruit Growers' Journal	Advertising	5 00
644	" 29	Western Agricultural Co.	" "	15 00
645	" 29	Richard Kny & Co.	Flasks, etc	7 10
646	" 29	Baker & Adamson	Nitric acid	18 91
647	" 29	E. W. Blatchford & Co.	Lead	10 59
648	" 29	Douglas & Shuey Co.	Negatives and slides	12 75
649	" 29	A. B. Dick & Co.	Paper	6 00
650	" 29	Thos. Wright & Son	Sewer grate and ring	6 00
651	" 29	Seovill Manufacturing Co.	Aluminum	1 59
652	" 29	Richards & Co.	Chemical apparatus	30 90
653	" 29	Keeley, Maus & Co.	Steel and iron	43 39
654	" 29	H. W. Johns Mfg. Co.	Cement, etc	28 10
655	" 29	Keuffel & Esser Co.	Level, etc	81 10
656	" 29	Houghton, Mifflin & Co.	Silva of North America	75 00
657	" 29	G. E. Stechert	Books	311 92
658	" 29	Underwood Mfg. Co.	Belting	38 24
659	" 29	W. C. Lyman	Exhaust head	9 90
660	" 29	The Stirling Co.	Boiler, etc	587 16
661	" 29	Chicago Shaft & Pulley Co.	Shafting, etc	86 03
662	" 29	Jas. B. Clow & Son	Pipe and fittings	158 50
663	" 29	D. H. Lloyde & Son	Books, etc	139 33
664	" 29	Hill, Clarke & Co.	Lathes, etc	949 86
665	" 29	The Egan Co.	Surfaces, etc	463 40
666	" 29	George Besore	Cement, etc	116 06
667	" 29	Goodrich Hard Rubber Co.	Rubber	15 09
668	" 29	T. R. White, Jr.	Gas, January, 1892	88 00
669	" 29	A. C. McClurg & Co.	Books, etc	25 65
670	" 29	Machinists' Supply Co.	Pulley, etc	24 86
671	" 29	Barnhart Bros. & Spindler	Type, etc	345 62
672	" 29	Public School Pub. Co.	Advertisement	6 00
673	" 29	Bliss, Bullard & Gormley	Spring, etc	5 35
674	" 29	Enterprise Coal Co.	Coal	123 00
675	" 29	Muddy Valley Mining Co.	" "	254 33
676	" 29	Fuller & Fuller Co.	Acid, etc	21 56
677	" 29	Richards & Co. Ltd.	Laboratory supplies	282 85

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
678	Feb. 29.	Fairbanks, Morse & Co.	Balance	\$20 00
679	" 29.	Chas. Besley & Co.	Hardware	33 20
680	" 29.	Jas. W. Queen & Co.	Calorimeters	18 50
681	" 29.	The Patriot	Advertising	4 00
682	" 29.	The Illini	Printing	3 75
683	" 29.	M. J. Miller	Halters	5 05
684	" 29.	Henry Trevett	Hardware	225 21
685	" 29.	Robinson & Burr	Fittings, labor, etc.	161 42
686	" 29.	Sheldon Brick Co.	Brick	110 50
687	" 29.	W. Electric Co.	Electric supplies	43 08
688	" 29.	R. S. Wilber	Drayage	173 50
689	" 29.	R. Anderson	Traveling expense	9 66
690	" 29.	E. H. Renner & Bro.	Drayage, etc.	13 50
691	" 29.	Kelley, Maus & Co.	Steel	55 90
692	" 29.	Ginn & Co.	Maps and books	24 36
693	" 29.	Edw. L. Mann	Baritone horn	47 00
694	" 29.	The Gazette	Printing	382 75
695	" 29.	C. C. C. & St. L. R'y. Co.	Freight charges	57 03
696	" 29.	Ill. Cent. R. R. Co.	"	22 86
697	" 29.	Wabash R. R. Co.	"	4 19
698	" 29.	Architectural department	Labor and material	1,271 89
699	" 29.	Architectural department	Labor, material and power	412 66
700	" 30.	Mechanical department	"	398 64
701	Mar. 15.	S. P. Sutton	Salary, part of February, 1892.	51 72
702	" 15.	Valentine Jobst	On building contract	3,371 00
703	" 15.	S. A. Bullard	Expense to Board meetings	53 90
704	" 15.	Alex. McLean	"	37 39
705	" 15.	Henry Raab	"	13 70
706	" 15.	LaFayette Funk	"	6 80
707	" 15.	N. W. Graham	"	19 32
708	" 15.	F. M. McKay	"	18 75
709	" 15.	Oscar F. Spalding	Entertainment of members of Board	11 00
710	" 15.	S. H. Peabody	Collection of insects	875 00
711	" 15.	W. L. B. Jenney	For lecture	50 00
712	" 15.	H. C. Forbes	Work on entomological report	166 66
713	" 15.	American Express	Freight charges	7 60
714	" 15.	Lilly M. Hart	Drawings	38 00
715	" 15.	Machinists' Supply Co.	Drills	7 08
716	" 15.	Prang Educational Co.	Drawing materials	5 10
717	" 15.	C. W. Rolfe	Expense visiting schools	11 06
718	" 15.	S. A. Forbes	Expenses to Springfield	9 47
719	" 15.	J. W. Spalding	Postage stamps	32 80
720	" 15.	Great West'n Electric Sup. Co.	Labor, etc.	35 71
721	" 15.	T. C. Chamberlin	Expenses to Champaign	21 60
722	" 15.	Ill. Cent. R. R. Co.	Freight charges	29 07
723	" 15.	Agricultural dept. Univ. Ill.	Expenses, February, 1892.	151 67
724	" 15.	Pay roll of men Feb., 1892.	Labor	319 55
725	" 15.	Pay roll of stud'ts Feb., 1892.	"	285 07
726	" 31.	T. J. Burrill	Salary for March, 1892	250 00
727	" 31.	S. W. Shattuck	"	166 66
728	" 31.	E. Snyder	"	166 66
729	" 31.	N. C. Ricker	"	166 66
730	" 31.	G. E. Morrow	"	166 66
731	" 31.	J. D. Crawford	"	166 66
732	" 31.	I. O. Baker	"	166 66
733	" 31.	S. A. Forbes	"	83 33
734	" 31.	J. H. Brownlee	"	166 66
735	" 31.	C. W. Rolfe	"	166 66
736	" 31.	D. McIntosh	"	150 00
737	" 31.	N. Butler, Jr.	"	166 66
738	" 31.	A. N. Talbot	"	150 00
739	" 31.	A. W. Palmer	"	150 00
740	" 31.	F. F. Frederick	"	150 00
741	" 31.	S. W. Parr	"	150 00
742	" 31.	M. R. Paradis	"	150 00
743	" 31.	H. J. Barton	"	166 66
744	" 31.	C. M. Moss	"	150 00
745	" 31.	S. W. Stratton	"	133 33
746	" 31.	W. J. Baldwin	"	133 33
747	" 31.	G. W. Myers	"	100 00
748	" 31.	G. W. Parker	"	115 00
749	" 31.	R. Anderson	"	133 33
750	" 31.	H. S. Brode	"	100 00
751	" 31.	H. S. Grindley	"	100 00
752	" 31.	E. S. Keene	"	85 00
753	" 31.	J. M. White	"	85 00
754	" 31.	Clara Maud Kimball	"	30 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
755	Mar. 31	Edith A. Shattuck	Salary for March, 1892.	\$50 00
756	" 31	T. A. Clark	" "	75 00
757	" 31	J. H. Powell	" "	80 00
758	" 31	G. M. Hobbs	" "	60 00
759	" 31	R. H. Forbes	" "	60 00
760	" 31	Cleaves Bennett	" "	85 00
761	" 31	Grace Peabody	" "	40 00
762	" 31	Anna F. Shattuck	" "	15 00
763	" 31	A. B. Baker	" "	70 00
764	" 31	A. J. Stoneburner	" "	30 00
765	" 31	H. Jeakins	" "	40 00
766	" 31	W. A. Brown	" "	25 00
767	" 31	L. H. Walden	" "	25 00
768	" 31	A. Itan	" "	83 33
769	" 31	John Marten	" "	62 50
770	" 31	Mary J. Snyder	" "	62 50
771	" 31	C. A. Hart	" "	5 50
772	" 31	Pantagraph Printing Co.	Cards, etc.	15 50
773	" 31	C. W. Stromberg	Vial racks, etc.	56 50
774	" 31	H. W. Rohrer	Printing and stationery	8 14
775	" 31	Franklin Educational Sup'y Co	Flasks, etc.	50 00
776	" 31	A. W. French	Books	100 00
777	" 31	T. R. White, Jr.	Gas, February, 1892	3 10
778	" 31	A. H. Roffe & Co.	Books	1 00
779	" 31	Stoddard & Daniels	Ribbon for typewriter	1 00
780	" 31	George B. Cresson	Smith's List Lepidoptera	2 93
781	" 31	Karlber & Pepper	Tubs, etc.	8 95
782	" 31	Carl Schoenhof	Books	20 00
783	" 31	Mrs. Stanley Potter	Models of apples	6 91
784	" 31	Thomas Wright & Son	Straight-edges, etc.	20 38
785	" 31	Er. Faulkner	Paints, etc.	6 50
786	" 31	Er. FINDER	Drayage	10 10
787	" 31	Henry A. Dreer	Greenhouse stock	6 60
788	" 31	A. B. Dieck Co.	Paper, etc.	12 18
789	" 31	Wenona Zinc Co.	Zinc spelter	9 50
790	" 31	Richards & Co.	Bottles, etc.	2 99
791	" 31	Richthiesson & Hegeler	Zinc plates	343 88
792	" 31	Richards & Co.	Chemical supplies	50 30
793	" 31	J. S. Cook	Expenses to Champaign	100 00
794	" 31	Union Water Supply Co.	Water, 3 months, to April 1, 1892	216 05
795	" 31	True-dale Manufacturing Co	Front doors, etc.	11 41
796	" 31	S. A. Forbes	Expenses to Chicago	44 77
797	" 31	Jas. W. Queen & Co.	Electrical apparatus	279 75
798	" 31	William Price	Paints, oil, and labor	14 14
799	" 31	Wabash R. R. Co.	Freight charges	292 26
800	" 31	Union Bridge Co.	Bridge models	350 00
801	" 31	N. C. Rieker	Services as architect	4,584 12
802	April 16	V. Jobst	For contract on new building	100 00
803	" 16	S. P. Sutton	Salary as superintendent on new bld'g	50 00
804	" 16	David L. Barnes	Lecture before Engineering college	40 40
805	" 16	Lily M. Hart	Drawings	565 00
806	" 16	Malby & Wallace	Heating apparatus	250 00
807	" 16	V. Jobst	On contract on building	83 33
808	" 16	H. C. Forbes	Work in laboratory	41 00
809	" 16	J. W. Spalding	Postage	3 00
810	" 16	MacMillan & Co.	Subscription for Natural Science	1 00
811	" 16	E. O. Vaile	School Directory	33 61
812	" 16	S. A. Forbes	Expenses	1 00
813	" 16	E. L. Cresson	Subscription for Entomological News	50 00
814	" 16	William Sooy Smith	Lecture, College of Engineering	100 00
815	" 16	J. A. L. Waddell	Lectures and blue prints	218 00
816	" 16	Clara Maud Kimball	Music fees	4 66
817	" 16	J. H. Brownlee	Traveling expenses	2 00
818	" 16	J. D. Crawford	Expense examining high schools	10 70
819	" 16	W. L. Pillsbury	Traveling expenses	26 96
820	" 16	C. H. Besley & Co.	Electric supplies	183 80
821	" 16	Electric Signal Clock Co.	Electric clock	20 00
822	" 16	Enterprise Coal & Coke Co.	Coal	207 90
823	" 16	Agricultural dept., U. of I.	Expenses, March, 1892	250 42
824	" 16	Pay rolls of men, March, '92	Labor	812 00
825	" 16	Payrolls, students, M'ch, '92	"	250 00
826	" 30	T. J. Burrill	Salary, April, 1892	166 66
827	" 30	S. W. Shattuck	" "	166 66
828	" 30	E. Snyder	" "	166 66
829	" 30	N. C. Rieker	" "	166 66
830	" 30	J. D. Crawford	" "	166 66
831	" 30	G. E. Morrow	" "	166 66
832	" 30	I. O. Baker	" "	166 66

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1893.			
833	April 30.	S. A. Forbes	Salary, April, 1892	\$83 33
834	" 30.	J. H. Brownlee	" "	166 66
835	" 30.	C. W. Rolfe	" "	166 66
836	" 30.	D. McIntosh	" "	150 00
837	" 30.	N. Butler, Jr.	" "	166 66
838	" 30.	A. N. Talbot	" "	160 00
839	" 30.	A. W. Palmer	" "	150 00
840	" 30.	F. F. Frederick	" "	150 00
841	" 30.	S. W. Parr	" "	150 00
842	" 30.	M. R. Paradis	" "	150 00
843	" 30.	H. J. Barton	" "	166 66
844	" 30.	Charles M. Moss	" "	150 00
845	" 30.	S. W. Stratton	" "	133 33
846	" 30.	W. J. Baldwin	" "	133 33
847	" 30.	G. W. Myers	" "	100 00
848	" 30.	G. W. Parker	" "	115 00
849	" 30.	R. Anderson	" "	133 33
850	" 30.	H. S. Brode	" "	100 00
851	" 30.	H. S. Grindley	" "	100 00
852	" 30.	E. S. Keene	" "	85 00
853	" 30.	J. M. White	" "	85 00
854	" 30.	Clara Mau Kimball	" "	30 00
855	" 30.	Edith A. Shattuck	" "	50 00
856	" 30.	T. A. Clark	" "	75 00
857	" 30.	J. H. Powell	" "	80 00
858	" 30.	G. M. Hobbs	" "	60 00
859	" 30.	R. H. Forbes	" "	63 00
860	" 30.	G. P. Clinton	" "	70 83
861	" 30.	Cleaves Bennett	" "	85 00
862	" 30.	Grace Peabody	" "	40 00
863	" 30.	Anna F. Shattuck	" "	15 00
864	" 30.	A. B. Baker	" "	70 00
865	" 30.	A. J. Stoneburner	" "	30 00
866	" 30.	H. Jenkins	" "	40 00
867	" 30.	L. H. Walden	" "	25 00
868	" 30.	A. Itan	" "	25 00
869	" 30.	C. A. Herme	" "	25 00
870	" 30.	John Marten	" "	83 33
871	" 30.	Mary J. Snyder	" "	62 50
872	" 30.	C. A. Hart	" "	62 50
873	" 30.	S. P. Sutton	" "	100 00
874	" 30.	N. W. Davis	Sand	14 75
875	" 30.	Marder, Luse & Co.	Type, etc	40 65
876	" 30.	Western Union Tel. Co.	Telegraph charges	2 86
877	" 30.	Pacific Express Co.	Express charges	7 25
878	" 30.	C. C. C. & St. L. R'y Co.	Freight charges	4 88
879	" 30.	Illinois Central R. R. Co.	Freight charges	111 17
880	" 30.	Odin Coal Co.	Coal	119 50
881	" 30.	A. C. McClurg & Co.	Books and stationery	24 11
882	" 30.	Fuller & Fuller Co.	Glass, etc	19 34
883	" 30.	Besore & Thomas	Lumber, etc.	26 90
884	" 30.	W. F. Hardy	Grass seed	2 25
885	" 30.	Goodyear Rubber Co.	Weather strips	4 98
886	" 30.	N. C. Ricker	Expenses	1 75
887	" 30.	S. M. Phelps	Cement, sand, etc.	5 00
888	" 30.	Hubbard & Sons	Tin work	16 43
889	" 30.	T. R. White, Jr.	Gas, March, 1892	119 20
890	" 30.	C. J. Sabin	Wheelbarrow and coal	5 25
891	" 30.	The Illini	Advertising and printing	30 43
892	" 30.	Engineering News Pub. Co.	Advertising	6 88
893	" 30.	C. M. Parker	Advertisement	10 00
894	" 30.	C. Hennecke & Co.	Vases, flower pots, etc.	12 55
895	" 30.	J. C. Vaughan	Greenhouse stock	14 50
896	" 30.	W. S. Little & Co.	Greenhouse stock	4 75
897	" 30.	Schneider Brothers	Thermometers	10 25
898	" 30.	Western Electric Co.	Electric supplies	9 19
899	" 30.	Richard Kny & Co.	Glass tubing	10 50
900	" 30.	F. P. Rush & Co.	Coal	14 00
901	" 30.	G. O. Miller	Blue prints	10 30
902	" 30.	Kelley, Maus & Co.	Electric supplies	5 61
903	" 30.	Chicago Shafting & P. Co.	Pulley	4 05
904	" 30.	Chas. Munson Belting Co.	Belt	34 04
905	" 30.	Central Electric Co.	Electric supplies	16 40
906	" 30.	Electrical Supply Co.	Insulators, etc	14 18
907	" 30.	Knowlton & Bennett	Paper	1 00
908	" 30.	V. W. Shuck	Copper box	1 50

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
909	April 30.	O. F. Spaulding.	Hotel charges.	\$1 50
910	" 30.	Bacon & Mittendorf.	Molding.	1 50
911	" 30.	F. A. Robeson & Bro.	Cambric.	2 70
912	" 30.	Crane & Co.	Pipe and fittings.	22 96
913	" 30.	Lyon & Healy.	Music.	16 27
914	" 30.	Yale & Towne Mfg Co.	Door fittings.	70 00
915	" 30.	E. E. Barrett.	Labor and tra- ing cloth.	3 00
916	" 30.	Bliss, Build & Gormley.	Hardware and tools.	106 61
917	" 30.	The Egan Co.	Freight charges.	5 94
918	" 30.	Henry Heil Chemical Co.	Chemical supplies.	43 52
919	" 30.	T. A. Pickham.	Books.	103 50
920	" 30.	G. E. Stetchert.	"	35 68
921	" 30.	A. E. Foote.	"	5 00
922	" 30.	F. C. Miller.	"	25 00
923	" 30.	W. E. Simonds, U. S. P. O.	Binding.	31 20
924	" 30.	Kenyon News Co.	Subscriptions.	7 12
925	" 30.	W. & L. E. Gurley.	Plane table movement, etc.	21 82
926	" 30.	Testing Machine Co.	India or, etc.	35 00
927	" 30.	Davidson & Sons.	Slate.	6 50
928	" 30.	Douglass & Shiley Co.	Negatives and slides.	7 50
929	" 30.	Soule Photograph Co.	Slides.	13 00
930	" 30.	The American Book Mart.	Books.	12 25
931	" 30.	Justin Roe & Sons.	Steel tape, etc.	24 00
932	" 30.	Ginn & Co.	Trans. Am. Philological Association.	2 00
933	" 30.	D. H. Lloyd & Son.	Books, etc.	359 84
934	" 30.	American Express.	Freight charges.	26 90
935	" 30.	H. Swannell.	Paints, oils, etc.	55 94
936	" 30.	Robinson & Burr.	Labor and material.	435 62
937	" 30.	Henry Trevett.	Hardware.	154 02
938	May 14.	V. Jobst.	Contract on new building.	5,342 70
939	" 14.	J. E. Porter.	Hay carriers.	26 30
940	" 14.	Kelley, Maus & Co.	Tools.	55 46
941	" 14.	C. H. Besley & Co.	Hardware.	10 57
942	" 14.	Wabash Railroad Co.	Freight charges.	9 48
943	" 14.	Illinois Central R. R. Co.	"	99 53
944	" 14.	S. W. Spaulding.	Postage.	20 00
945	" 14.	S. W. Shattuck.	Netty expenses 3 mo. to Feb. 29, 1892.	18 85
946	" 14.	Lilly M. Hart.	Drawings of insects.	42 25
947	" 14.	F. M. Eifresh.	Making collection.	40 00
948	" 14.	Agricultural dept. U. of I.	Expenses April, 1892.	330 62
949	" 14.	Pay roll of men April, 1892.	Labor.	317 99
950	" 14.	Pay roll of students April, '92.	"	259 79
951	" 31.	T. J. Burrill.	Salary, May, 1892.	259 00
952	" 31.	S. W. Shattuck.	"	166 66
953	" 31.	E. Snyder.	"	166 66
954	" 31.	N. C. Ricker.	"	166 66
955	" 31.	J. D. Crawford.	"	166 66
956	" 31.	G. E. Morrow.	"	166 66
957	" 31.	I. O. Baker.	"	166 66
958	" 31.	S. A. Forbes.	"	83 33
959	" 31.	J. H. Brownlee.	"	166 66
960	" 31.	C. W. Wolfe.	"	166 66
961	" 31.	D. McIntosh.	"	150 00
962	" 31.	N. Butler, Jr.	"	166 66
963	" 31.	A. N. Talbot.	"	150 00
964	" 31.	A. W. Palmer.	"	150 00
965	" 31.	F. F. Frederick.	"	150 00
966	" 31.	S. W. Parr.	"	150 00
967	" 31.	M. B. Paradis.	"	150 00
968	" 31.	H. J. Barton.	"	166 66
969	" 31.	Chas. M. Moss.	"	150 00
970	" 31.	S. W. Stratton.	"	133 33
971	" 31.	W. J. Baldwin.	"	133 33
972	" 31.	G. W. Myers.	"	100 00
973	" 31.	G. W. Parker.	"	115 00
974	" 31.	R. Anderson.	"	133 33
975	" 31.	H. S. Brode.	"	100 00
976	" 31.	H. S. Grindley.	"	100 00
977	" 31.	E. S. Keene.	"	85 00
978	" 31.	J. M. White.	"	85 00
979	" 31.	Clara Maud Kimball.	"	30 00
980	" 31.	Edith A. Shattuck.	"	50 00
981	" 31.	T. A. Clark.	"	75 00
982	" 31.	J. H. Powell.	"	80 00
983	" 31.	G. M. Hobbs.	"	60 00
984	" 31.	R. H. Forbes.	"	60 00
985	" 31.	G. P. Clinton.	"	70 83

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
986	May 31....	Cleaves Bennett.....	Salary, May, 1892.....	\$85 00
987	" 31.....	Grace Peabody.....	" ".....	40 00
988	" 31.....	Anna F. Shattuck.....	" ".....	15 00
989	" 31.....	A. B. Baker.....	" ".....	70 00
990	" 31.....	A. J. Stoneburner.....	" ".....	30 00
991	" 31.....	H. Jenkins.....	" ".....	40 00
992	" 31.....	A. Itan.....	" ".....	25 00
993	" 31.....	L. H. Walden.....	" ".....	25 00
994	" 31.....	C. A. Herme.....	" ".....	25 00
995	" 31.....	W. L. Pillsbury.....	Salary, 3 months to date.....	125 00
996	" 31.....	S. W. Shattuck.....	" ".....	150 00
997	" 31.....	John Marten.....	Salary, May, 1892.....	83 33
998	" 31.....	Mary J. Snyder.....	" ".....	62 50
9 9	" 31.....	C. A. Hart.....	" ".....	62 50
1000	" 31.....	P. Sutton.....	" ".....	100 00
1001	" 31.....	C. W. Rolfe.....	Expense visiting schools.....	2 00
1002	" 31.....	H. J. Barton.....	" ".....	4 99
1003	" 31.....	J. D. Crawford.....	" ".....	6 61
1004	" 31.....	C. M. Moss.....	" ".....	13 51
1005	" 31.....	J. H. Brownlee.....	" ".....	16 60
1006	" 31.....	A. E. Foote.....	Pamphlets.....	3 66
1007	" 31.....	Studies in Hist. & Politics.....	Subscription.....	3 00
1008	" 31.....	B. F. Stevens.....	Books.....	9 75
1009	" 31.....	Robinson & Burr.....	Fittings and labor.....	48 83
1010	" 31.....	J. B. Clow & Son.....	Pipe, etc.....	4 70
1011	" 31.....	Central Union Tel. Co.....	Rent of instrument 3 mo. to June 30, '92.....	15 00
1012	" 31.....	Kenyon News Co.....	Subscription.....	9 25
1013	" 31.....	Soule Photograph Co.....	Photographs.....	64 72
1014	" 31.....	Electrical Supply Co.....	Connectors, etc.....	2 35
1015	" 31.....	Eugene Dietzgen & Co.....	Paper.....	13 65
1016	" 31.....	Ames & Frost Co.....	Lumber.....	70 83
1017	" 31.....	Champaign County Herald.....	Paper.....	5 50
1018	" 31.....	A. C. McClurg & Co.....	Paper.....	30 41
1019	" 31.....	The Nautilus.....	Subscription.....	1 00
1020	" 31.....	W. U. Telegraph Co.....	Telegraph charges.....	1 61
1021	" 31.....	E. H. Sargent & Co.....	Vials, corks, etc.....	34 57
1022	" 31.....	W. E. Saunders & Co.....	Entomological pins, etc.....	13 91
1023	" 31.....	Odin Coal Co.....	Coal.....	78 00
1024	" 31.....	G. C. Willis.....	Cambric, etc.....	30 09
1025	" 31.....	Wes. Bank Note & Eng. Co.....	Diplomas.....	62 50
1026	" 31.....	The Illini.....	Printing and advertising.....	109 49
1027	" 31.....	T. R. White, Jr.....	Gas, April, 1892.....	142 20
1028	" 31.....	Richards & Co.....	Chemical apparatus.....	21 08
1029	" 31.....	Knowlton & Bennett.....	Tapes.....	13 50
1030	" 31.....	Heller & Brightley.....	Transit and level, etc.....	435 00
1031	" 31.....	Fairbanks, Morse & Co.....	Scales and weights.....	96 40
1032	" 31.....	Thomson-Houston Elec. Co.....	Apparatus and supplies.....	182 14
1033	" 31.....	Hausman & Dunn.....	Veterinary instruments.....	42 00
1034	" 31.....	Walker & Mulliken.....	Chairs, etc.....	58 85
1035	" 31.....	William Price.....	Painting.....	5 38
1036	" 31.....	R. S. Wilber.....	Drayage.....	79 90
1037	" 31.....	Engineering Publishing Co.....	Advertising.....	6 88
1038	" 31.....	Public School Publishing Co.....	Advertising.....	6 00
1039	" 31.....	G. W. Myers.....	Expense visiting schools.....	20 50
1040	" 31.....	J. D. Smith & Co.....	Foundry supplies.....	88 76
1041	" 31.....	J. A. Fay & Co.....	Belting.....	75 65
1042	" 31.....	Estate Charles H. Marsh.....	Subscriptions.....	1 77
1043	" 31.....	G. H. French.....	Entomological work.....	200 00
1044	" 31.....	H. J. Barton.....	Drayage and expense.....	2 75
1045	" 31.....	Webber's art store.....	Picture frames, etc.....	31 50
1046	" 31.....	Soule Photograph Co.....	Picture mats, etc.....	7 20
1047	" 31.....	G. A. Eisenberger.....	Table.....	12 60
1048	" 31.....	A. H. Andrews & Co.....	Chairs.....	576 00
1049	" 31.....	Mays & Co.....	Chronometer.....	134 00
1050	" 31.....	A. Zeese & Co.....	Half tone electros.....	46 70
1051	" 31.....	A. Zeese & Co.....	Photo-engravings.....	96 44
1052	" 31.....	Marder, Luce & Co.....	Brass impression sleeve.....	3 39
1053	" 31.....	S. W. Stratton.....	Expense visiting schools.....	8 15
1054	" 31.....	G. C. Willis.....	Flannel, etc.....	18 95
1055	" 31.....	Odin Coal Co.....	Coal.....	32 00
1056	" 31.....	Henry A. Dreer.....	Greenhouse stock.....	5 00
1057	" 31.....	Wm. Price.....	Shades, etc.....	27 45
1058	" 31.....	W. L. Pillsbury.....	Expense to Bloomington.....	2 75
1059	" 31.....	Pantagraph Print. & Sta. Co.....	Printing catalogues.....	332 00
1060	" 31.....	Hornstein Bros.....	Circulars and certificate.....	40 65
1061	" 31.....	W. W. Lindley.....	Postage.....	22 00
1062	" 31.....	Jas. W. Queen & Co.....	Spirometer, etc.....	50 75



*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
1063	1892.			
1064	May 31	J. A. Fay & Co.	Wood turning lathes	\$160 00
1065	" 31	Robinson & Burr	Labor and material	125 09
1066	" 31	Illinois Central R. R. Co.	Freight charges	32 26
1066	" 31	Pacific Express Co.	Freight charges	5 90
1067	" 31	American Express Co.	Freight charges	13 98
1068	" 31	S. A. Forbes	Expenses	37 79
1069	" 31	John Marten	Expenses	37 80
1070	" 31	George Cutter	Lecture before Coll. of Eng.	50 00
1071	" 31	Dankmar Adler	" "	50 00
1072	" 31	Mechanical dept. Univ. of Ill.	Labor, material, etc.	150 80
1073	" 31	Mechanical d pt. Univ. of Ill.	" "	211 58
1074	" 31	Architectal dept. Univ. of Ill.	" "	234 98
1075	" 31	Architectal dept. Univ. of Ill.	" "	619 75
1076	June 15	V. Jobst	On contract for new building	1,498 60
1077	" 15	V. Jobst	" "	3,003 84
1078	" 15	S. A. Bullard	Expense to meetings	53 00
1079	" 15	Alex. McLean	Board meeting	29 88
1080	" 15	J. H. Bryant	" "	40 25
1081	" 15	LaFayette Funk	" "	4 35
1082	" 15	W. W. Clemens	" "	18 50
1083	" 15	N. W. Graham	Traveling expenses	183 20
1084	" 15	F. M. McKay	" "	159 00
1085	" 15	Geo. R. Shawhan	" "	13 10
1086	" 15	John W. Bunn	Premium and interest on bonds	5 15
1087	" 15	John W. Bunn	Taxes on Minnesota lands	1,532 99
1088	" 15	W. L. Pillsbury	Traveling expenses and paper	84 86
1089	" 15	J. P. Lowry	Music at commencement	12 50
1090	" 15	John M. Gregory	Expense attending commencement	50 00
1091	" 15	University Glee Club	Music at commencement	30 00
1092	" 15	University Band	" "	20 00
1093	" 15	Douglass & Shuey Co.	Negatives and slides	10 50
1094	" 15	Frank F. Frederick	Etching press, etc.	25 05
1095	" 15	A. N. Talbot	Steam pump and water motor	273 79
1096	" 15	Lully M. Hart	Drawing	36 55
1097	" 15	George B. Carpenter & Co.	Trammel net, etc.	10 85
1098	" 15	H. C. Forbes	Work on entomological report	83 33
1099	" 15	Pay rolls of men, May, 1892	Labor	409 78
1100	" 15	Pay rolls of stud'ts, May, 1892	" "	547 55
1101	" 15	Theo. Aune	Commission	27 00
1102	" 15	C. M. Moss	Expense visiting schools	18 70
1103	" 15	C. West	Fish	1 65
1104	" 15	G. C. Miller	Blue prints	9 00
1105	" 15	Library Bureau	Labels	6 00
1106	" 15	Am. Society Civil Eng.	Books	1 83
1107	" 15	J. K. Barker	Strap iron	3 35
1108	" 15	G. W. Parker	Drayage	2 50
1109	" 15	E. R. Hills	R. R. fare of judges	12 60
1110	" 15	W. C. Lyman	Exhaust head	3 00
1111	" 15	Walker & Mulliken	Chairs	35 75
1112	" 15	F. M. Needham	Photographic work	3 00
1113	" 15	J. W. Spaulding	Postage	53 50
1114	" 15	G. M. Hobbs	Expense	11 55
1115	" 15	Agricultural department	Labor	121 37
1116	" 15	T. R. White, Jr.	Gas	112 60
1117	" 15	Joel Knapp & Son	Double saw bench	276 40
1118	" 15	H. S. Brode	Collections and expenses	9 37
1119	" 15	Besord & Thomas	Lumber	93 37
1120	" 15	C., C. C. & St. L. R'y. Co.	Freight charges	17 83
1121	" 15	American Express Co.	" "	16 10
1122	" 15	Union Water Supply Co.	Water 3 months, to June 30, 1892	100 00
1123	" 15	V. Baker	Ice	3 45
1124	" 15	Richards & Co.	Chemical supplies	121 17
1125	" 15	Jing & McHugh	" apparatus and supplies	51 00
1126	" 30	T. J. Burrill	Salary, June, 1892	250 00
1127	" 30	S. W. Shattuck	" "	166 66
1128	" 30	E. Synder	" "	166 66
1129	" 30	N. C. Ricker	" "	166 66
1130	" 30	J. D. Crawford	" "	166 66
1131	" 30	G. E. Morrow	" "	166 66
1132	" 30	I. O. Baker	" "	166 66
1133	" 30	S. A. Forbes	" "	83 33
1134	" 30	J. H. Brownlee	" "	166 66
1135	" 30	C. W. Rolfe	" "	166 66
1136	" 30	D. McIntosh	" "	150 00
1137	" 30	N. Butler, Jr.	" "	166 66
1138	" 30	A. N. Talbot	" "	150 00

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
1139	June 30	A. W. Palmer	Salary, June, 1892.	\$150 00
1140	" 30	F. F. Frederick	" "	150 00
1141	" 30	S. W. Parr	" "	150 00
1142	" 30	M. R. Paradis	" "	150 00
1143	" 30	H. J. Barton	" "	166 66
1144	" 30	Chas. M. Moss	" "	150 00
1145	" 30	S. W. Stratton	" "	133 33
1146	" 30	W. J. Baldwin	" "	133 33
1147	" 30	G. W. Myers	" "	100 00
1148	" 30	G. W. Parker	" "	115 00
1149	" 30	R. Anderson	" "	133 33
1150	" 30	H. S. Brode	" "	100 00
1151	" 30	H. S. Grindley	" "	100 00
1152	" 30	E. S. Keene	" "	85 00
1153	" 30	J. M. White	" "	85 00
1154	" 30	Clara Maud Kimball	" "	30 00
1155	" 30	Edith A. Shattuck	" "	50 00
1156	" 30	T. A. Clark	" "	75 00
1157	" 30	J. H. Powell	" "	80 00
1158	" 30	G. M. Hobbs	" "	60 00
1159	" 30	R. A. Forbes	" "	60 00
1160	" 30	G. P. Clinton	" "	70 83
1161	" 30	Cleaves Bennett	" "	85 00
1162	" 30	Grace Peabody	" "	40 00
1163	" 30	Anna F. Shattuck	" "	15 00
1164	" 30	A. B. Baker	" "	70 00
1165	" 30	A. J. Stoneburner	" "	15 00
1166	" 30	H. Jenkins	" "	20 00
1167	" 30	L. M. Walden	" "	12 50
1168	" 30	A. Itan	" "	12 50
1169	" 30	C. A. Herme	" "	12 50
1170	" 30	John Marten	" "	83 33
1171	" 30	Mary J. Snyder	" "	62 50
1172	" 30	S. P. Sutton	" "	100 00
1173	" 30	W. L. Pillsbury	" "	41 66
1174	" 30	Clara Maud Kimball	Music fees	201 00
1175	" 30	R. Freidlander & Son	Books and periodicals	319 02
1176	" 30	John H. Bryant	Expense to Board meeting	11 90
1177	" 30	LaFayette Funk	" "	5 00
1178	" 30	W. W. Clemens	" "	27 00
1179	" 30	W. L. Pillsbury	" "	16 33
1180	" 30	H. L. Sperry & Son	Insurance	62 50
1181	" 30	Gamble & Stafford	Photos	7 00
1182	" 30	Clara Maud Kimball	Music	19 35
1183	" 30	Washington Gladden	Commencement address	100 00
1184	" 30	F. M. Tracy	Expenses	5 50
1185	" 30	D. D. Darrah	" "	5 00
1186	" 30	Pantagraph Print. Sta. Co.	Printing cards	4 75
1187	" 30	Bernard Quaritch	Books	26 21
1188	" 30	American Express Co.	Freight charges	15 80
1189	" 30	J. W. Spalding	Postage	15 00
1190	" 30	Lilly M. Hart	Drawing and painting	31 50
1191	" 30	S. W. Shattuck	Services as disbursing agent	50 00
1192	" 30	H. C. Forbes	Salary May and June, 1892.	166 66
1193	" 30	John Marten	Expenses	20 30
1194	" 30	S. A. Forbes	" "	10 78
1195	" 30	Henry Trevett	Hardware	42 55
1196	" 30	Nalder Bros. & Co.	Pattnoid bridge, etc.	284 49
1197	" 30	Ill. Cent. R. R. Co	Freight charges	4 47
1198	" 30	G. M. Morgan	Freight, etc.	16 60
1199	" 30	Paving and Municipal Eng.	Subscription	1 00
1200	" 30	N. W. Davis	Sand	10 62
1201	July 15	V. Jobst	On account Natural History Hall	5,744 20
1202	" 15	N. C. Ricker	Services and expenses	282 09
1203	" 15	E. H. Griffith	Turn table	5 00
1204	" 15	T. R. White, Jr.	Gas, June, 1892	36 80
1205	" 15	West. Bank Note & Eng. Co.	Diplomas	25 00
1206	" 15	Hornstein Bros.	Electrotypes	2 25
1207	" 15	Champaign Times	Circulars	1 50
1208	" 15	J. W. Butler Paper Co.	Wrapping paper	3 03
1209	" 15	Richards & Co. (Limited)	Filters and tubes	2 45
1210	" 15	William Price	Gilding, etc.	3 25
1211	" 15	S. W. Stratton	Hand-lathes, hardware, etc.	63 45
1212	" 15	J. A. Fay & Co.	Pulleys	39 98
1213	" 15	Machinists Supply Co.	Western direct hoist	15 55
1214	" 15	Geo. F. James	Circulars	1 05
1215	" 15	J. W. Queen & Co.	Telescope, etc.	23 28

*List of Warrants—Continued.*

No.	Date.	To Whom	For What.	Amount.
	1892.			
1216	July 15	S. A. Bulard	Expense to Board meetings	\$23 70
1217	" 15	Alex. McLean	" " "	21 20
1218	" 15	N. W. Graham	" " and Com. meetings	44 55
1219	" 15	W. A. Heath	Expense of alumni meeting	49 75
1220	" 15	Nalde Bros. & Co.	Electrical apparatus, etc.	228 48
1221	" 15	D. H. Loyde & Son	Books and stationery	13 50
1222	" 15	Fuller & Fuller Co.	Oil and glue, etc.	16 91
1223	" 15	Agricultural dept. U. of I.	Expenses of May and June, 1892	382 55
1224	" 15	Pay roll of men, June, 1892	Labor	325 03
1225	" 15	Pay roll of students, June, '92	"	223 41
1226	" 30	T. J. Burrill	Salary, July, 1892	250 00
1227	" 30	S. W. Shattuck	" " "	166 66
1228	" 30	E. Snyder	" " "	166 66
1229	" 30	N. C. Ricker	" " "	166 66
1230	" 30	J. D. Crawford	" " "	166 66
1231	" 30	G. E. Morrow	" " "	166 66
1232	" 30	I. O. Baker	" " "	166 66
1233	" 30	S. A. Forbes	" " "	83 33
1234	" 30	J. H. Brownlee	" " "	166 66
1235	" 30	C. W. Rolfe	" " "	166 66
1236	" 30	D. McIntosh	" " "	150 00
1237	" 30	N. Butler, Jr.	" " "	166 66
1238	" 30	A. N. Talbot	" " "	150 00
1239	" 30	A. W. Palmer	" " "	150 00
1240	" 30	F. F. Frederick	" " "	150 00
1241	" 30	S. W. Parr	" " "	150 00
1242	" 30	M. R. Paradis	" " "	150 00
1243	" 30	H. J. Barton	" " "	166 66
1244	" 30	Chas. M. Moss	" " "	150 00
1245	" 30	S. W. Stratton	" " "	133 33
1246	" 30	W. J. Baldwin	" " "	133 33
1247	" 30	G. W. Myers	" " "	100 00
1248	" 30	G. W. Parker	" " "	115 00
1249	" 30	R. Anderson	" " "	133 33
1250	" 30	W. L. Pillsbury	" " "	41 66
1251	" 30	Cleaves Bennett	" " "	85 00
1252	" 30	Grace Peabody	" " "	70 00
1253	" 30	A. B. Baker	" " "	83 33
1254	" 30	John Marten	" " "	62 50
1255	" 30	Mary J. Snyder	" " "	100 00
1256	" 30	S. P. Sutton	" " "	3 36
1257	" 30	W. Union Tel. Co.	Telegraph charges	10 00
1258	" 30	E. O. Vaile	Advertising	33 68
1259	" 30	Jas. B. Clow & Son	Iron pipe and fittings	6 00
1260	" 30	C. J. Sabin	Pump top	299 50
1261	" 30	Pantagraph Ptg & Sta. Co.	Printing catalogue, etc.	35 00
1262	" 30	J. W. Spalding	Postage	5 00
1263	" 30	The Brickbuilder Pub. Co.	Subscription	21 25
1264	" 30	J. W. Butler Paper Co.	Paper	15 01
1265	" 30	Crane Co.	Valves, etc.	2 75
1266	" 30	P. F. Van Everen	Library numbers	6 80
1267	" 30	Whe & Lynch	Commission and forwarding	314 11
1268	" 30	B. F. Stevens	Books	15 00
1269	" 30	Sheldon Brick Co.	Bricks	2 25
1270	" 30	Maltby & Wallace	Changing water pipes	5 05
1271	" 30	J. Hamilton & Co.	Lumber	35 50
1272	" 30	Champaign County Herald	Printing	20 66
1273	" 30	Hubbard & Son	Tin work	30 23
1274	" 30	L. W. Faulkner & Co.	Paints and oil	127 98
1275	" 30	Henry Trevett	Hardware	5,571 00
1276	Aug. 15	T. Jobst	On building contract	17 00
1277	" 15	T. R. Leal	Grading	35 35
1278	" 15	F. M. McKay	Expense to committee meetings	127 12
1279	" 15	T. J. Burrill	Traveling expenses	4 00
1280	" 15	E. H. Renner & Bro.	Hack	6 00
1281	" 15	D. Appleton & Co.	American Encyclopedia	2 31
1282	" 15	C. Schoenhof	Books	15 50
1283	" 15	Stearns Lime & Stone Co.	Cement, etc.	15 00
1284	" 15	Western Agric. and L. S. J.	Advertising	4 50
1285	" 15	Gamble & Stafford	Photographs	5 17
1286	" 15	Thomas Naughton	" " "	4 50
1287	" 15	C. M. Moss	Printing and postage	22 00
1288	" 15	J. W. Spalding	Postage	21 58
1289	" 15	Ill. Cent. R. R. Co.	Freight charges	28 83
1290	" 15	O. C. C. St. L. Ry. Co.	" " "	2 80
1291	" 15	Pacific Express Co.	" " "	4 38
1292	" 15	American Express Co.	" " "	

*List of Warrants—Continued.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
1293	Aug. 15.	Western Union Tel. Co. ....	Telegraph charges.....	\$3 03
1294	" 15.	S. W. Shattuck.....	Petty expenses 3 mo. to May 31, 1892..	29 50
1295	" 15.	A. H. Andrews & Co.....	Settees.....	168 75
1296	" 15.	Agricultural department....	Expenses July, 1892.....	302 77
1297	" 15.	P. M. Hucke.....	Salary for July, 1892.....	40 00
1298	" 15.	E. S. Keen.....	Work on heating apparatus, etc.....	85 00
1299	" 15.	Pay roll of men, July, 1892..	Labor.....	503 70
1300	" 15.	Pay roll students, July, 1892.		209 66
1301	" 31.	T. J. Burrill.....	Salary for August, 1892.....	250 00
1302	" 31.	S. W. Shattuck.....		166 66
1303	" 31.	E. Snyder.....		166 66
1304	" 31.	N. C. Ricker.....		166 66
1305	" 31.	J. D. Crawford.....		166 66
1306	" 31.	G. E. Morrow.....		166 66
1307	" 31.	I. O. Baker.....		166 66
1308	" 31.	S. A. Forbes.....		83 33
1309	" 31.	J. H. Brownlee.....		166 66
1310	" 31.	C. W. Rolfe.....		166 66
1311	" 31.	D. McIntosh.....		150 00
1312	" 31.	N. Butler, Jr.....		166 66
1313	" 31.	A. N. Talbot.....		150 00
1314	" 31.	A. W. Palmer.....		150 00
1315	" 31.	F. F. Frederick.....		150 00
1316	" 31.	S. W. Parr.....		150 00
1317	" 31.	M. R. Paradis.....		150 00
1318	" 31.	H. J. Barton.....		166 66
1319	" 31.	Chas. M. Moss.....		150 00
1320	" 31.	S. W. Stratton.....		133 33
1321	" 31.	W. J. Baldwin.....		133 33
1322	" 31.	G. W. Myers.....		100 00
1323	" 31.	G. W. Parker.....		115 00
1324	" 31.	R. Anderson.....		133 33
1325	" 31.	Cleaves Bennett.....		85 00
1326	" 31.	Grace Peabody.....		40 00
1327	" 31.	A. B. Baker.....		70 00
1328	" 31.	W. L. Pillsbury.....		41 66
1329	" 31.	S. W. Shattuck.....	for 3 months, to date.....	150 00
1330	" 31.	John Marten.....	for August, 1892.....	83 33
1331	" 31.	Mary J. Snyder.....		62 50
1332	" 31.	G. C. Willis.....	Dry goods.....	11 43
1333	" 31.	Richards & Co.....	Acids, etc.....	75 18
1334	" 31.	Besore & Thomas.....	Lumber.....	413 41
1335	" 31.	Eng. News and Am. Ry. J'n'l	Advertising.....	6 88
1336	" 31.	Theodore Aune.....	Commissions.....	13 32
1337	" 31.	Casino Art Co.....	Directory.....	2 09
1338	" 31.	George B. Carpenter.....	Minnow seine.....	6 52
1339	" 31.	Art Publishing Co.....	Cuts, etc.....	297 00
1340	" 31.	A. C. McClurg & Co.....	Books.....	285 51
1341	" 31.	Houghton, Mifflin & Co.....	Silva of N. A.....	25 00
1342	" 31.	Ill Soc. of Eng. & Surveyors	Advertising.....	10 00
1343	" 31.	W. B. Jacobs.....	".....	5 00
1344	" 31.	Orange Judd Farmer Co.....	".....	164 35
1345	" 31.	M. A. Hunt.....	Greenhouse stock.....	5 45
1346	" 31.	Cent. Union Telephone Co.	Rent of instrument.....	15 00
1347	" 31.	J. W. Spalding.....	Postage.....	9 40
1348	" 31.	Mary J. Snyder.....	Postage and envelopes.....	2 60
1349	" 31.	S. A. Forbes.....	Expenses.....	11 63
1350	" 31.	John Marten.....	Traveling expenses.....	59 25
1351	" 31.	American Express Co.....	Freight charges.....	10 70
1352	" 31.	R. S. Wilber.....	Drayage.....	35 89
1353	" 31.	Pantagraph Ptg. & Sta. Co.	Binding books.....	180 20
1354	" 31.	Sheldon Brick Co.....	Brick.....	84 00
1355	" 31.	Pay roll of women.....	Labor.....	92 25
1356	" 31.	Bertha M. Pillsbury.....	Mounting plates and writing.....	24 50
1357	" 31.	Horns' Coalery Co.....	Coal.....	225 00
1358	" 31.	The Gazette.....	Printing and stationery.....	111 25
1359	" 31.	Prairie Farmer Pub. Co.....	Advertising.....	5 40
1360	" 31.	Mea-ham & Wright.....	Cement.....	3 00
1361	" 31.	Fuller & Fuller Co.....	Glass.....	8 71
1362	" 31.	Kate Brown.....	Work in botanical laboratory.....	64 45

*List of Warrants—Concluded.*

No.	Date.	To Whom.	For What.	Amount.
	1892.			
1363	Aug. 31....	Illinois Central R. R. Co.....	Freight charges.....	\$37 15
1364	" 31....	Wabash R. R. Co.....	" .....	27 80
1365	" 31....	O. C. C. & St. L. R'y. Co.....	" .....	9 77
1366	" 31....	G. E. Stechert.....	Books.....	481 40
1367	" 31....	Jas. W. Queen & Co.....	Laboratory apparatus, etc.....	702 24
1368	" 31....	Goodyear Rubber Co.....	Rubber tubing.....	15 12
1369	" 31....	Crane Co.....	Pipe and fittings.....	14 54
1370	" 31....	T. R. Leal.....	Excavation for coal house.....	75 00
1371	" 31....	S. P. Sutton.....	Salary, August, 1892.....	100 00
1372	" 31....	The Dun-Perley Co.....	Sewer pipe.....	65 58
1373	" 31....	Chemical laboratory.....	Chemical supplies.....	41 93
1374	" 31....	Mechanical department.....	Labor and material.....	248 50
1375	" 31....	Architectural .....	" .....	607 76

*Financial statement of the University of Illinois [not including State Laboratory of Natural History or the Agricultural Experiment Station] for the year ending August 31, 1892.*

RECEIPTS, SEPTEMBER 1, 1891—AUGUST 31, 1892.		
Balance .....		\$91,418 44
<i>From U. S. Appropriations—</i>		
For instruction and the facilities therefor .....		35,000 00
<i>From State Appropriations—</i>		
For taxes on lands in Minnesota and Nebraska .....	\$1,532 99	
For buildings and grounds .....	2,500 00	
For mechanical shops .....	2,000 00	
For books and publications .....	1,000 00	
For current expenses of instruction .....	2,000 00	
For laboratories .....	1,500 00	
For cabinets .....	500 00	
For Natural History Hall .....	30,000 00	
For furnishing same .....	5,000 00	
		64,032 99
<i>From other sources—</i>		
Interest .....	\$26,954 40	
Rent .....	879 75	
Fees of University students .....	12,576 25	
Fees of preparatory students .....	2,321 17	
Gross receipts of business departments .....	10,661 22	
Miscellaneous .....	381 78	
		53,774 57
		<u>\$244,226 00</u>
EXPENDITURES, SEPTEMBER 1, 1891—AUGUST 31, 1892.		
<i>Of U. S. Appropriations—</i>		
Salaries for instruction .....	\$16,500 00	
Library .....	2,738 60	
Veterinary department .....	42 00	
College of engineering .....	658 61	
Architectural department .....	1,338 96	
Civil engineering .....	1,335 14	
Mechanical department .....	1,929 42	
Physical laboratory .....	1,539 08	
Electrical laboratory .....	3,176 22	
Chemical laboratory .....	1,126 44	
Natural history .....	2,418 29	
English literature .....	30 23	
		\$32,692 99
<i>Of State Appropriations—</i>		
Taxes on lands in Minnesota and Nebraska .....	\$1,532 99	
Buildings and grounds .....	1,426 08	
Mechanical shops .....	2,000 00	
Books and publications .....	1,180 20	
Cabinets .....	345 52	
Current expenses of instruction .....	20,000 00	
Apparatus and material .....	2,017 50	
Metallurgical laboratory .....	1,002 82	
Heating .....	3,030 86	
Farm barn .....	881 23	
Furniture .....	952 40	
Natural History Hall .....	44,984 42	
Heating and furnishing same .....	71 00	
		79,425 02
<i>Of other funds—</i>		
Expenses of Board of Trustees .....	1,342 57	
Salaries for instruction .....	14,282 74	
Salaries for services .....	5,668 67	
Buildings and grounds .....	2,042 85	
Fuel and lights .....	3,300 36	
Stationery, printing, and postage .....	1,914 75	
Preparatory department .....	1,559 79	
Gross expenses of business departments .....	11,756 93	
Water supply .....	400 00	
Premium on bonds .....	2,344 00	
Miscellaneous .....	4,773 42	
Incidentals .....	604 52	
Furniture and fixtures .....	483 47	
		50,474 07
Balance .....		<u>81,693 92</u>
		<u>\$244,226 00</u>

*Financial statement of the Illinois State Laboratory of Natural History, for the fiscal year ending June 30, 1892.*

RECEIPTS.		
For field, office, and incidental expenses.....	\$1,500 00	
Improvement of library.....	1,000 00	
Pay of assistants.....	5,500 00	
Publication of bulletins.....	500 00	
Illustration of the State Entomologist's Report.....	250 00	
EXPENDITURES.		
For field, office, and incidental expenses.....		\$1,495 09
Improvement of library.....		999 39
Pay of assistants.....		3,467 94
Balance.....		787 58
	<u>\$6,750 00</u>	<u>\$6,750 00</u>

*Financial statement of the Agricultural Experiment Station, University of Illinois, for the year ending June 30, 1892.*

RECEIPTS.		
Appropriated by Congress .....	\$15,000 00	
EXPENDITURES.		
Buildings and repairs .....		\$647 64
Board expense.....		53 08
Books and publications, and binding .....		774 19
Botanical apparatus, supplies and fixtures.....		207 13
Bulletins and reports.....		941 25
Chemical apparatus, supplies and fixtures.....		564 95
Fertilizers.....		75
Fuel and lights.....		328 20
Furniture and fittings .....		84 25
Incidentals .....		95 25
Meteorological apparatus.....		12 75
Printing, stationery, and postage .....		132 08
Salaries.....		6,900 84
Seeds and trees .....		190 06
Tools.....		216 15
Wages and teams .....		3,666 41
Sundry special expenditures on certain experiments.....		185 02
	<u>\$15,000 00</u>	<u>\$15,000 00</u>

## STATE LABORATORY OF NATURAL HISTORY.

*To the Trustees of the University.*

GENTLEMEN: In conformity to the recommendation of a special committee on the status of the State Laboratory of Natural History, whose report was made to you June 8, 1892, and in anticipation of your action on that recommendation, I beg to submit the following general report on the operations of the Laboratory during the two years just past.

The functions of the Laboratory, as most recently defined by the legislature in the law of 1885, are the making of a natural history survey of the state, the supply of natural history specimens to the state museum, the state educational institutions, and the public schools, and the publication of a systematic series of reports on the zoölogy and the cryptogamic botany of the state. Its operations now cover, under authorization of the same law, those of the State Entomologist, which were described by the law establishing that office in 1867 to be the investigation of the entomology of the state (particularly the history of insects injurious to horticulture and agriculture in Illinois), the collection of a cabinet of insects to be deposited in the University of Illinois, and the preparation of biennial reports of entomological researches and discoveries made at the office. The work of the establishment is further necessarily guided to a considerable extent by the appropriation laws in force; and by authority of these laws we are publishing, in addition to the two series of reports above mentioned, a third series of miscellaneous articles, containing only original work on the natural history of the state, issued in the form of bulletins of the Laboratory.

Our operations during the past two years have been also greatly influenced by legislation concerning the Columbian Exposition, by which it is made our duty to exhibit the methods and the results of the work of the Laboratory. The State Board of Exposition Commissioners looks to this institution, in fact, for a display of the zoölogy of the state, prepared and arranged with special reference to our work.

## ORGANIZATION.

The regular Laboratory force, to July, 1891, consisted of the undersigned, serving as Director and State Entomologist: Professor Burrill, of the University, as botanist; C. A. Hart, office entomologist; John Marten, field entomologist; A. M. Westergren, artist; and Mary J. Snyder, secretary and stenographer. During a part of this year, H. S. Brode, of the University, served as zoölogical assistant, H. C. Forbes as librarian, and S. Shiga as janitor.

The same staff was continued to July, 1892, with the substitution of Miss Lilly M. Hart as artist in place of Mr. Westergren. Since July, we have had engaged on regular laboratory work, in addition to the foregoing, but with the exception of Professor Burrill, Philip M. Huckle in entomology, succeeded by W. A. Snow. We have further employed on the preparation of the zoölogical exhibit of the Laboratory at the Columbian Exposition, C. F. Adams, taxidermist, and Hugo Kahl as his assistant; H. E. Summers, entomologist; F. M. Woodruff and Ernest Forbes, ornithological



collectors; F. M. McElfresh, entomological assistant; and C. T. Wilder, succeeded by J. E. Hallinen, engaged in making a collection of the fishes of the state—all this last group being paid by the World's Fair Commissioners.

The force actually under engagement at any one time has varied from six to sixteen.

#### INVESTIGATION.

The investigations of the Laboratory during the period covered by this report have followed the same general direction as during the two years preceding, but with a closer concentration on entomology than I like—a defect which I hope to avoid hereafter by changes in organization.

Progress in our knowledge of the general zoölogy of the state has been immediately furthered by a considerable amount of work done on waters outside our limits, by myself and my assistants, during our vacations, under the auspices and at the expense of the United States Fish Commission. One able to appreciate the fact that the life of no region can be thoroughly studied without a knowledge of that of other regions, adjacent and remote, and that in those departments of natural history where new forms must be described it is indispensable that opportunity should be had for a comparison of collections made over a large extent of country, will understand the advantages to our own studies which this extension of our aquatic work outside the state must bring us in the end. The parties kept in the field ever since last fall on behalf of the Exposition collections, have also added considerable material and information available for the purposes of our natural history survey. I need, however, as I have needed for some years, a zoölogical assistant whose time should go continuously to the zoölogical survey outside of entomology. In the entomological department of the survey, Exposition work has likewise aided us immensely. The collections and various studies which this work has required in all parts of the state have given us a mass of facts and material equivalent, I think, to the product of five years of our ordinary operations.

The principal trips made by the entomological assistants, for these collections and investigations, are thirty-two in number, and cover, for the two years, 298 days' absence in the field at a distance from Champaign. The ornithological field work includes a trip of two months to Louisiana, made by Mr. Adams for the collection of Illinois birds in their winter quarters, three weeks' shooting in southern Illinois by two assistants, five more by one assistant in the northern part of the state, besides six weeks' collecting in Champaign county. In ichthyology one or two men have been out continuously for three and a half months.

Our outside aquatic operations include a journey to Yellowstone Park and western Montana by Mr. Brode and myself, covering five weeks in 1891, and trips by myself and two assistants to Geneva, Delavan, and Winnebago lakes, in Wisconsin, occupying four weeks in all. I need not say that our trips of this description were not mere expeditions for the collection of specimens, but that they were attended and followed by field and laboratory studies of the waters, their surroundings, and their contents.

I may add, under this head, brief mention of the experimental work in economic entomology done at my office. The most important subject of precise investigation belonging here is that of the contagious diseases of insects, upon which we have worked almost continuously in the experimental way since the spring of 1891. Artificial cultures of the fungus parasite found most efficient for the propagation of such diseases have been made on a large scale, and supplied to all applicants from this state in sufficient quantities to enable them to start disease among injurious insects on their premises.

We also experimented last year with the fruit bark beetle, the white grubs, and the Hessian fly, with a view to clearing up doubtful points in the life history of each; and with respect to the species last mentioned,

we undertook, at the request of the United States Entomologist, the introduction of its foreign parasites into the wheat fields of Illinois.

A very large amount of entomological breeding-cage work has been done by us in the two years just past, but of a kind which it is impossible to summarize.

Something of the amount of general work done in entomology may be inferred from the fact that we have added to the pinned collections fully 20,000 specimens, and to the "biological" series, that illustrating the life histories and habits of Illinois insects, 2,700 bottles and vials.

#### PUBLICATIONS.

The regular publications of the Laboratory and Entomologist's office during the past two years have been less numerous than usual: but the matter now in press and far advanced in printing is, on the other hand, unusually important.

My sixth report as State Entomologist, the seventeenth of the entire series, was printed in 1891. It contains 105 pages and seven plates, three of which are colored, with an appendix of 36 pages and one plate. One of the articles of this report was issued separately in advance, as a bulletin of the office. My seventh report is now in course of preparation.

A second edition of the first volume of our report on the ornithology of the state, authorized by the legislature at its last session, has been long delayed, owing to difficulties concerning the supply of paper. These have been met, however, by the State Board of Contracts, and the printing from our stereotyped plates is in progress at the time of writing. This volume stops with the Columbidae, but a continuation and completion of this work on the systematic ornithology of the state has also been printed, and is now nearly ready for distribution as a first part of the second volume of the zoological series of the Natural History Survey.

Three articles have been published as bulletins of the Laboratory: One by Professor Weed on a plant louse species, one by Professor Gillette on new gall flies in the Laboratory collections, and one by myself on insect bacteria. We have now in press in this series, and nearly ready for distribution, a full descriptive monograph of the reptiles and amphibians of the state, (173 pages and seven plates), by Professor Garman, and a similarly exhaustive account of the Illinois species of one of the families of true bugs (Membracidae) by Dr. F. W. Goding.

Besides these regular publications we have prepared and printed, in connection with the distribution of collections to be referred to later, two lists, one of duplicate insects in the collection of the Laboratory (nineteen pages) and one a list of economic species for public schools (thirteen pages).

The following is a list of papers by the Laboratory force, published during the two years, the work for which has been done at the Laboratory. Forbes, S. A.—Synopsis of Recent Work with Arsenical Insecticides. (Trans. Ill. State Hort. Soc., 1889, p. 310.)

On a Bacterial Insect Disease. (North American Practitioner, 1891. p. 401; Am. Monthly Micr. Journal, 1891, p. 246.)

Bacteria Normal to Digestive Organs of Hemiptera. Bull. Ill. State Lab. Nat. Hist., iv, p. 1.)

On Some Lake Superior Entomostraca. (Rep. U. S. Fish Comm., 1887, p. 701.)

Preliminary Report upon the Invertebrate Animals Inhabiting Lakes Geneva and Mendota, Wisconsin, with an Account of the Fish Epidemic in Lake Mendota in 1884. (Bull. U. S. Fish Comm. viii, p. 473.)

A Summary History of the Corn-Root Aphis. (Insect Life, iii, p. 233.)

On the Life History of the White Grubs. (Insect Life, iii, p. 239.)

Report of Progress in Economic Entomology. Proc. 4th Ann. Convention Ass'n. Am. Agr. Colleges and Exper. Stations; in Misc. Bull. No. 3, U. S. Dept. Agr., Office Exper. Station, p. 29.)

The Hessian Fly. (Bull. Univ. Ill., Agric. Exper. Station, No. 12, p. 377.)

The Fruit Bark Beetle. (Bull. 4, Office State Entomologist, Ill.: Bull. Univ. Ill., Agric. Exper. Station, No. 15, p. 469.)

Zoölogy in the Public School: Choice and Arrangement of Material. (Public School Jour., xi, pp. 320, 375, 429.)

The Head of the English Sparrow. (Prepared in accordance with a requirement of the law of the legislature, passed at its last session, offering a bounty for the destruction of sparrows.)

The Chinch Bug in Illinois, 1891-92. (Bull. Univ. Ill., Agr. Exper. Station, No. 19, p. 44.)

An All-around Microscope. (Am. Monthly Micr. Jour., 1892, p. 91.)

The Fruit-Destroying Insects of Southern Illinois. (Trans. Ill. Hort. Soc., 1891, p. 116.)

The Importation of a Hessian Fly Parasite from Europe. (Insect Life, iv, p. 179.)

Seventeenth Report of the State Entomologist on the Noxious and Beneficial Insects of the State of Illinois. CONTENTS.—The Fruit Bark Beetle. Experiments with Arsenical Poisons for the Plum and Peach Curculio. The American Plum Borer. On the Common White Grubs. Additional Notes on the Hessian Fly. A Summary History of the Corn Root Aphis. On a Bacterial Disease of the Larger Corn Root Worm. Notes on the Diseases of the Chinch Bug. *Appendix*.—An Analytical List of the Entomological Writings of Wm. LeBaron, M. D., Second State Entomologist of Illinois.

Marten, John.—Various entomological articles, published as Entomological Editor of the *Prairie Farmer*, Chicago, Ill.

Hart, Charles A.—The Life History of Wire Worms. (Insect Life, iii, p. 546.)

On the Species of *Cecanthus*. (Entomological News, iii, p. 33.)

Additional papers, prepared but not yet printed, are a presidential address on "The Progress of Economic Entomology During the Years 1891 and 1892," delivered by myself at the meeting of the American Association of Economic Entomologists at Rochester, N. Y.; my preliminary report to the United States Fish Commissioner, on the "Aquatic Invertebrate Fauna of Yellowstone Park, Wyoming, and of the Flathead Region of Montana;" and two important papers, now in the hands of my assistants, well advanced towards completion: the first by Mr. Marten, containing descriptions of new species of Illinois gall gnats, and the other by Mr. Hart,—a descriptive list of the aculeate Hymenoptera of the state.

Reference should here be made, for the purpose of completing this summary of our services in the field of economic instruction, to the various addresses made within the state by Mr. Marten and myself.

#### DISTRIBUTION OF MATERIAL.

In pursuance of the plan mentioned in my last biennial report, 14,000 insects were distributed during the winter of 1890-91 to thirty-nine public schools. These sets were named, labeled and systematically arranged, and were accompanied by printed pamphlets giving the information necessary to make them available for use in the work of the schools. Notwithstanding this heavy draft on our duplicate material, our entomological collections are already larger than before the distribution was made.

The fact that the insects belonging to the State Laboratory of Natural History are now kept in the University building, and are held at the service of students, under suitable conditions, makes unnecessary any further

collections, at present, under the law requiring a cabinet of insects to be prepared by the State Entomologist and deposited at the University.

No collections have been sent during the last two years to the state educational institutions or to the state museum, but according to a resolution passed by the State Board of World's Fair Commissioners last spring, it is held that the collections now making by the Laboratory for Exposition purposes will be available at the close of the Exposition for distribution by the Laboratory to these institutions.

S. A. FORBES, *Director*.

## AGRICULTURAL EXPERIMENT STATION.

PROFESSOR GEORGE E. MORROW, A.M., PRESIDENT BOARD OF  
DIRECTION.

An examination of the lists given below of articles published in the bulletins issued and of experiments carried on will give a good idea of the work of the Station for the two years past.

## BUILDINGS.

The farm barn used by the Experiment Station has been rebuilt by the University at an expense of about \$4,000. The dairy house has been rebuilt and refurnished, considerable additions have been made to facilities for pig feeding, and a building has been put up for housing wagons, implements, etc.

## LIBRARY.

The library has received valuable donations of books from Mrs. Sarah S. Flagg, of Moro, Ill., widow of the late Hon. Willard C. Flagg; from Sir John B. Lawes, England; from Samuel Edwards, of North Peoria; from S. W. Johns, of Decatur; and from Mrs. L. E. Haskell, of Rockford, widow of the late Geo. S. Haskell.

The whole number of books and pamphlets, including bulletins, is 4,734.

## PUBLICATIONS.

Ten bulletins, No. 12 to 21, inclusive, and two annual reports have been published. The bulletins contained in all 280 pages. Twelve thousand copies are printed and the circulation amounts to 10,420. Two annual reports contained, one 24 and the other 14 pages.

The bulletins contained articles as follows:

*Bulletin No. 12*, November, 1890, 32 pp. Field Experiments with Oats, 1890. Milk and Butter Tests. Cream Raising by Dilution. The Hessian Fly. Canada Thistles, their Extermination.

*Bulletin No. 13*, February, 1891, 64 pp. Field Experiments with Corn, 1890. Garden Experiments with Sweet Corn, 1890.

*Bulletin No. 14*, February, 1891, 14 pp. Milk Tests. Methods of Testing Milk.

*Bulletin No. 15*, February, 1891, 28 pp. The Fruit Bark Beetle. Experiments with Grass Seeds, and with Grasses and Clovers. Use of Fungicides upon the Apple, the Potato, and the Grape.

*Bulletin No. 16*, May, 1891, 28 pp. Experiments in Pig feeding. Composite Milk Samples tested for Butter Fat. Table of Contents and Index for Bulletins No. 1 to 16, inclusive.

*Bulletin No. 17*, August, 1891, 16 pp. Experiments with Wheat, 1890-91. Daily Variations in Milk and Butter Production of Cows.

*Bulletin No. 18*, November, 1891, 16 pp. Dairying Experiments.

*Bulletin No. 19*, February, 1892, 16 pp. Experiments with Oats, 1891. The Chinch Bug in Illinois, 1891-92.

*Bulletin No. 20*, April, 1892, 32 pp. Field Experiments with Corn, 1891.

*Bulletin No. 21*, May, 1892, 32 pp. Horticulture, a General Report. Corn Crossing. Sweet Corn, Thickness of Planting, 1891. The Late Season and the Corn Crop.

#### NEW WORK.

Upon recommendation of the Board of Direction of the Station, new work has been authorized as follows:

September 8, 1890.

1. To determine the effect of adding water to fresh milk upon the rising of the cream.

2. In propagating apple trees, to compare the methods by whole and by piece roots.

December 8, 1890.

1. To make a chemical analysis of two feeds, germ meal and oat dust feed.

2. Apple trees, testing the effects of pruning.

3. Plants, testing the effects of self and cross fertilization of.

4. Wheat, tests of varieties.

June 9, 1891.

1. To improve and produce varieties of cereals.

2. To investigate the strength and composition of fibre plants.

March 8, 1892.

1. The test of sugar beets, the beets to be raised at least in one place in each of the three grand divisions of the state.

2. Testing varieties of vegetables.

June 27, 1892.

To investigate methods of preventing smut in wheat.

#### EXPERIMENTS CONTINUED AND UNDERTAKEN.

The following table gives the number and title of each experiment that has been in hand during the two years; and in the first column to the right of each title is given the year when the experiment was begun; in the second those which have been completed within the year are marked with a cross (x); in the third, the experiments in progress are marked the same way; and in the last column is stated in which bulletin, or bulletins, a report upon the experiment may be found, if any has been published.

TABLE SHOWING EXPERIMENTS IN HAND DURING TWO YEARS.

No. Experiment.	Class and Title of Experiment.	When begun....	Completed .....	In progress .....	Reported in bulletins No.....
<i>Field Experiments.</i>					
1	Corn, testing varieties.....	1887-8	x	x	4, 8, 13, 20
2	Corn, testing varieties for ensilage.....	..	..	x	4
3	Corn, time of planting.....	..	..	x	4, 8, 13, 20
4	Corn, depth of planting.....	..	..	x	..
5	Corn, thickness of planting.....	..	..	x	..
6	Corn, planting in hills or drills.....	..	x	..	4, 8, 13
8	Corn, frequency of cultivation.....	..	..	x	4, 8, 13, 20
9	Corn, depth of cultivation.....	..	..	x	..
10	Corn, effect of root-pruning.....	..	..	x	..
11	Corn, effect of fertilizers, large plats.....	..	..	x	..
12	Oats, quantity of seed per acre.....	..	..	x	3, 7, 12, 19
13	Oats, compact or loose seed-bed.....	..	..	x	3, 7, 12
14	Oats, time of sowing.....	..	..	x	3, 7, 12
15	Oats, depth of sowing.....	..	..	x	3, 7, 12, 19
16	Grasses, comparison of varieties.....	..	..	x	15
17	Clovers, comparison of varieties.....	..	..	x	15
18	Grasses and clovers, sown with or without grain.....	..	..	x	15
19	Grasses, field tests of varieties.....	..	..	x	15
20	Clovers, field tests of varieties.....	..	..	x	15
21	Grasses and clovers, field tests of mixtures.....	..	..	x	15
22	Weeds, number and kinds on given areas.....	..	..	x	..
23	Rotation, University experiments continued.....	..	..	..	8, 13
24	Fertilizers, comparison of, on corn—small plats.....	..	..	x	4, 8, 13
50	Grasses and clovers, effect of ripeness on yield and chemical qualities.....	..	..	x	5
53	Wheat, effect of time and manner of harvesting.....	..	..	x	11
54	Corn, root growth.....	..	..	x	8, 4, 13
61	Wheat, effect of fertilizers on (wheat sown in 1887).....	..	x	..	11
62	Wheat, effect of fertilizers.....	1888-9	..	x	11, 17
63	Wheat, methods of soil preparation.....	..	..	x	11
64	Wheat, large or small seed.....	..	..	x	..
65	Wheat, quantity of seed per acre.....	..	..	x	11, 17
66	Wheat, time of sowing.....	..	..	x	11, 17
67	Wheat, depth of sowing.....	..	..	x	11, 17
68	Wheat, its relation to chess.....	..	..	x	17
69	Wheat, effect of fertilizers upon. (Experiments this year at Flora, Odin, and Belleville).....	..	..	x	11, 17
71	Corn fodder, effect of ripeness.....	..	..	x	..
84	Oats, testing varieties.....	..	..	x	7, 12, 19
86	Fertilizers, effect on grass lands.....	..	..	x	15
88	Beets, testing varieties.....	..	..	x	..
89	Corn, cross fertilization of.....	..	..	x	21
90	Corn, rate of growth.....	..	..	x	13, 20
103	Comparative yield of corn planted with and without pumpkins, and of pumpkins planted with and without corn.....	..	..	x	..
116	Wheat, test of varieties.....	1890-91	..	x	17
128	Oats, effect of time and manner of harvesting upon yield and chemical composition.....	1890	..	x	..
134	Corn, effect of removing tassels.....	1891-2	..	x	20
139	To improve and produce varieties of cereals.....	..	..	x	..
140	Tests of sugar beets.....	1892	..	x	..
<i>Feeding Experiments.</i>					
27	Cost of production of young steers.....	1887-88	x	..	9, 16
28	Cost of production of young colts.....	..	..	x	..
29	Cost of production of young calves.....	..	x	..	..
59	Cost of production of young helpers.....	..	x	..	..
60	Pigs, comparison between corn, grass, and corn and grass in feeding.....	1888-9	..	x	16
87	Pigs, comparative value of soaked and dry corn in feeding.....	..	..	x	16
<i>Dairying Experiments.</i>					
106	Milk tests, investigation of.....	..	..	x	9, 18
115	Cream raising by dilution.....	1890	..	x	12, 18
122	Composite milk samples tested for butter fat.....	1891	..	x	16, 18
131	Cream separation, test of methods.....	..	..	x	18

TABLES SHOWING EXPERIMENTS—*Concluded.*

No. Experiment.	Class and Title of Experiment.	When begun....	Completed .....	In progress.....	Reported in bul- letins No.....
132	Milk production, how affected by a grain ration fed to cows on grass .....	1891	....	x	.....
135	Milk production, how affected by an increasing grain ration .....	1891-2	....	x	.....
138	Milk, acidity of requisite to highest product of churn, and methods of producing that acidity .....	"	....	x	.....
<i>Tree Culture.</i>					
31	Orchard, soil cultivation and management .....	1887-8	....	x	.....
32	Orchard, soil fertilization .....	"	....	x	.....
33	Apples, testing new varieties .....	"	....	x	21
34	Apples, testing new varieties by top-grafting .....	"	....	x	.....
35	Apples, testing hardness of root-grafted and double-worked trees .....	"	....	x	.....
36	Pears, testing new varieties .....	"	....	x	.....
37	Plums, testing new varieties .....	"	....	x	.....
38	Cherries, testing new varieties .....	"	....	x	.....
39	Forest trees, growing of .....	"	....	x	.....
79	Testing and improving native fruits .....	"	....	x	21
80	Testing the effects of stock and scion upon each other .....	"	....	x	.....
91	Peach trees, winter protection of .....	"	....	x	21
101	Trees, protection of trunks .....	1889-90	....	x	.....
102	Trees, protection from mice, rabbits and insects .....	"	....	x	.....
114	Apple trees, methods of propagation by whole and by piece roots .....	1890	....	x	21
126	University experiment orchard .....	1887-8	....	x	.....
127	Orchard, soil cultivation and management of young trees .....	1891	....	x	.....
<i>Vine Culture.</i>					
40	Grapes, testing new varieties .....	1887-8	....	x	21
41	Grapes, methods of training .....	"	....	x	.....
42	Grapes, soil treatment .....	"	....	x	21
<i>Small Fruit Culture.</i>					
43	Blackberries, testing varieties .....	"	....	x	21
44	Raspberries, testing varieties .....	"	....	x	21
45	Strawberries, testing varieties .....	"	....	x	.....
46	Strawberries, method of management .....	"	....	x	.....
51	Strawberries, raising seedlings .....	"	x	.....	.....
52	Raspberries, soil management .....	"	....	x	21
123	Blackberries, method of management .....	1890	....	x	.....
<i>Gardening.</i>					
48	Beans, testing varieties .....	1887-8	....	x	.....
49	Sweet corn, testing varieties .....	"	....	x	4,8,13
56	Potatoes, investigation of scab .....	"	....	x	.....
104	Cucurbitaceous plants, except melons, tests of .....	1889-90	....	x	21
108	Potatoes, investigation of rot in .....	"	....	x	.....
109	Tomatoes, investigation of rot in .....	"	....	x	.....
111	Beans, investigation of diseases in .....	"	....	x	.....
<i>Tree and Vine Culture.</i>					
55	Fungicides, use of .....	1887-8	....	x	15,21
57	Insecticides, use of .....	"	....	x	.....
<i>Miscellaneous.</i>					
73	Record of soil temperatures .....	1888-9	....	x	.....
75	Soil moisture, evaporation of water from the surface of water, of uncultivated soil, of cultivated soil, of a corn plant, and of grass .....	"	....	x	.....
76	Meteorological record from August 17, 1888 .....	"	x	.....	.....
77	Biology of ensilage .....	"	....	x	7
92	Canada thistles, extermination of. (At Mattoon) .....	"	....	x	12
93	Fruits, production of new varieties from seeds .....	"	....	x	.....
94	Vitality of timothy, blue grass and red top seeds tested .....	1889-90	....	x	15
97	Vitality of seeds tested .....	"	....	x	.....
105	Investigation of a bacterial disease of corn .....	"	....	x	6
107	Woods, testing durability of .....	"	....	x	.....
136	Sweet corn, thickness of planting .....	1891	....	x	21
141	Potatoes, test of varieties .....	"	....	x	.....



## INDEX.

Academy, the, hall for.....	149
Agricultural Experiment Station—	
Board of Direction of.....	12
Appointed.....	76, 209
Financial statements of, annual.....	133, 283
Funds of, to be received by Treasurer.....	78
Report by, biennial.....	289
Quarterly.....	26, 41, 62, 94, 138, 169, 206, 248
Staff of.....	13
Appointed.....	44, 66, 75, 95, 208
Agriculture, see "College of Agriculture."	
Alumnae Association of the University of Illinois, communication from.....	251
Alumni, list of, to be kept by the Secretary of the Board.....	252
Occupation of.....	16
Alumni Association, meeting at commencement, 1892.....	189, 217
Communications from.....	189, 252, 253
Appropriations asked of the state, for the Laboratory of Natural History.....	47, 96
For the University.....	46, 91
Atherton, Geo. W., communication from.....	162
Athletic Association, asks for grounds.....	39, 48
Granted a part of the north campus for an athletic park.....	67, 69
Granted an appropriation for grading.....	88
Athletic park, grant of.....	39, 48, 67, 69
Supervision of.....	88
Baldwin, Walter J., appointed professor of mining engineering.....	112
Barber, Alice May, appointed to a fellowship.....	252
Barn on north farm.....	46, 99, 106, 153
Barton, Herbert J., appointed professor of the Latin language and literature.....	47
Board of Direction of Agricultural Experiment Station, see "Agricultural Experiment Station."	
Board of Trustees, University of Illinois.....	8
By-laws amended.....	239
Compiled.....	254
Committees.....	79, 226
New members.....	51, 74
Officers.....	51, 197
Proceedings, 1890-91.....	15
Meeting of September 9, 1890.....	15
"    December 9, 1890.....	37
"    March 10, 1891.....	51
Adjourned session, April 10, 1891.....	87
Meeting of June 9, 1891.....	89
"    August 7, 1891.....	111
Proceedings, 1891-92.....	135
Meeting of September 8, 1891.....	135
"    December 8, 1891.....	154
"    March 8, 1892.....	197
"    June 7, 1892.....	227
Adjourned session, June 27, 1892.....	248
Builders' course dropped.....	53, 75
Bunn, J. W., elected Treasurer.....	51
Bond of.....	51, 107, 109
See "Treasurer."	
Burrill, Professor T. J., appointed acting Regent.....	112
Communication from.....	98
Salary.....	151
See "Regent, acting."	
Business Agent, reports, quarterly.....	32, 49, 71, 104, 143, 174, 212, 245
Special.....	114, 253
Salary.....	21, 32
Butler, Professor N., Jr., declines re-appointment.....	230

Resolutions concerning	247
By-laws of Board, amended	239
Compiled	254
Cement walks	176, 177
Certificates conferred	90
Christian Associations, building for	200, 216, 228
Clark, Thomas A., appointed instructor in mathematics	109
College fraternities, rules concerning	151, 195
See "Students, rules for government of."	
College of Agriculture, courses of study in	23, 32, 53, 54
College of Engineering, communication from	171, 234
College of Literature, communication from	234
Courses of study in	53, 55
College of Physicians and Surgeons, affiliation with	171, 172, 196, 220
College of Science, courses of study in	53, 54
Commencement exercises, 1892	206, 217
Commissions conferred	91, 229
Courses of study, changes in	53, 54, 75, 217
Crawford, Professor J. D., communication from	234
DeGarmo, Charles, appointed professor of psychology	37, 43
Resignation	151, 178
Degrees conferred	89, 102, 228, 237
Rules concerning	39, 43, 68, 78
Degrees, higher	252
Dodge, Daniel Kilham, appointed professor of the English language and literature	250
Domestic science, petition for instruction in	205, 218, 250, 251
Dunlap, Henry M., communication from	98
Electrical engineering, course in	53, 75
Electric lighting	165, 216
Endowment fund, examination of	108
Investment of	42, 43, 177, 220, 247
Executive Committee, reports	
Faculty, list of	9
Appointments	101, 240
Farm reports	25, 40, 59, 96, 137, 157, 206, 232
Fees in shops and chemical laboratory dropped	57, 75
Fellowships, established	204, 217
Holders of	11, 252
Financial statements—	
Agricultural Experiment Station	133, 283
Laboratory of Natural History	133, 283
University	132, 282
Business departments of	40, 61, 168
Fire protection	196, 225
Flagg, Mrs. Sarah S., donation of books by	210, 217
Forbes, Robert H., appointed second assistant in chemistry	112
Appointed first assistant in chemistry	240
Forbes, Professor S. A., Director of Laboratory of Natural History	
Reports by	44, 96, 243
Appointed consulting entomologist of Agricultural Experiment Station	44
Frederick, Frank F., appointed professor of industrial art and design	23
Gardner, F. D., appointed assistant agriculturist of Experiment Station	95
Assistant in agriculture	232, 240
Gas plant	166, 212, 214
Gladden, Washington, proposed for Regent	251
Graduate school	214, 217
Griggs farm	34, 45, 49
Gordy, John P., elected professor of psychology	225
Gymnasium, condition and needs of	21
Rules for	38, 47
See "Students, rules for government of."	
Hall, Edward K., appointed instructor in athletics and director of the gymnasium	250
Heath, W. A., communications from	189, 253
Hills, Lt. E. R., appointed professor of military science and tactics	23
Hobbs, Glen M., appointed assistant in physical laboratory	112
Illini, type purchased for	181
See "Students, rules for government of."	
Insurance of arms	233, 254
Italian, course in	205, 218
Jobst, V., contractor on Natural History Hall	182
Junior course in agriculture, see "College of Agriculture."	
Kimball, Clara Maud, appointed instructor in music	22, 28
Declines re-appointment	231
Resolutions concerning	247

Law school proposed .....	171, 205, 218
Lectures, before College of Engineering.....	171, 181, 198, 234, 254
Before College of Literature .....	234, 254
Lecturers, non-resident.....	11
Library Committee, reports by .....	27, 146
Library staff.....	12
McLane, Cyrus D., appointed instructor in general engineering drawing.....	252
McWhorter, Tyler, donation of geological and mineralogical collection.....	97
Manley, Edward, appointed professor of physical culture.....	112
Masters' degrees for students who graduated with certificates.....	39, 48, 68, 78
Mechanical Engineering Teachers' Association, letter from.....	231, 254
Merrill, Katharine, appointed assistant professor of the English language and literature.....	251
Military department, difficulties in.....	57, 71, 73, 74, 80, 81, 87, 98, 109
Rules for .....	115, 147, 149
See "Students, rules for government of."	
Military Hall, final report of building committee.....	35
Heating .....	46, 99, 153, 186, 222, 260
Minnesota lands.....	25, 113, 147, 188, 214, 241
Committee appointed.....	147
Morrill aid act, 1890.....	16
Proceeds of, how expended.....	18, 31, 77
Receiving same from state treasurer.....	45, 57, 78
Morrow, Professor G. E., communication from.....	162
Elected President of Board of Direction of Experiment Station.....	114
See "Agricultural Experiment Station—Report, Quarterly"; "Farm reports."	
Moss, Charles M., appointed professor of the Greek language and literature.....	68, 77
Murray, Bronson, donates a bronze model of a French Merino sheep.....	133
Music fees, changes in.....	138, 152, 195, 205, 218
Natural History Hall.....	22, 46, 91, 99, 111, 148, 182, 184, 201, 222, 225, 258
Dedication of.....	261
Heating and furnishing same .....	259
Laying corner stone of.....	201, 225
Nelson, E. K., appointed assistant chemist of Experiment Station.....	75
New buildings.....	22, 202, 225, 241, 254
Normal schools, affiliation with.....	199, 209
North, Foster, case in supreme court.....	36, 87, 98, 109
Paradis, M. R., appointed professor of the French language and literature.....	37, 43
Parr, Samuel W., appointed professor of analytical chemistry.....	37, 43
Peabody, Dr. S. H., resignation of regency.....	108
Resolutions concerning .....	108
Resignation of presidency of Board of Direction of Experiment Station.....	113
See "Regent, reports by"; "Agricultural Experiment Station—Report, Quarterly."	
Pence, William D., appointed assistant in municipal and sanitary engineering.....	251
Piatt, Herman S., appointed to a fellowship.....	252
Powell, John H., appointed assistant in projection drawing .....	112
Preparatory school, discontinuance proposed .....	199, 209
Reorganization of.....	240, 261
Regency, committee to fill vacancy in .....	109
Regent, election of.....	88, 89, 109, 251
Reports by.....	16, 37, 51, 81, 89
Regent, acting, appointed.....	112
Reports by.....	135, 154, 197, 227
Regent's office, appropriation for assistance in.....	153
Regent's private secretary appointed .....	30
Ricker, Professor N. C., architect of Natural History Hall.....	111
Communications from .....	92, 171, 234
Reports by, see "Natural History Hall," "New Buildings."	
Rules, see "Students, rules for the government of."	
Sandford, William S., appointed second assistant in chemistry.....	250
Schmidt, Maurice, appointed instructor in gymnastics .....	38
Shattuck, Edith A., appointed assistant in drawing .....	23, 28
Shattuck, Samuel W., see "Business Agent."	
Snyder, Professor E., communication from.....	234
Societies, see "Students, rules for government of;" "College fraternities."	
Spanish, course in.....	205, 218
State Horticultural Society, communication from.....	98, 106
State Laboratory of Natural History—	
Appropriations for .....	29, 48, 76, 107, 220, 241
Financial statements.....	133, 283
Relations of, to the University .....	195, 242
Reports from.....	44, 96, 243
Staff of.....	12
Stratton, Samuel W., appointed professor of physics .....	102
Declines re-appointment.....	250
Students, rules for government of.....	81, 109, 190, 254
Summary of, by classes and by courses .....	14
Summary by colleges 1881-1891.....	52
Summer school.....	199

Teachers' course.....	57, 75
Technograph, appropriation for.....	171, 179
Tenure of office of professors and assistant professors.....	230, 239
Testing laboratory put in charge of Professor Rieker.....	177
Treasurer, elected.....	51
Bond of.....	51, 107, 109
Reports by, quarterly.....	30, 44, 73, 103, 141, 173, 210, 237
Special.....	41, 107, 143, 174, 239
To receive Agricultural Experiment Station funds.....	78
To receive from state treasurer funds from Morrill aid act.....	45, 57
University buildings and grounds not to be used for political purposes.....	47
University Extension.....	156, 172, 176, 198
University Hall, front doors for.....	106, 186, 222, 260
University of Illinois, financial statements.....	132, 282
Vacation absences of professors and assistant professors.....	230, 239
Warrants, lists of.....	116, 263
Winchell, S. R., resigns the chair of Latin language and literature.....	38, 47
Women as professors, petition for.....	150
Request of Alumnae Association for.....	251
Wood, T. D., appointed professor of physical culture.....	178
Woods, Professor Arthur T., declines re-appointment.....	93
Resolutions concerning.....	107
World's Columbian Exposition—	
Exhibit in state building.....	138, 141, 152, 157
Exhibit with collective exhibit of Agricultural Experiment Station.....	141, 162
Exhibit with collective exhibit of land grant colleges.....	162, 172