

MEETING OF MARCH 11, 1890.

The Board of Trustees of the University of Illinois met in the University parlor, in Urbana, at 3:30 o'clock p. m., March 11, 1890.

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

There being no quorum present, after listening to the report of the Acting Regent, Professor Burrill, the Board adjourned to meet at 7:30 o'clock, p. m., at the Doane House in Champaign.

REGENT'S REPORT.

To the Honorable Board of Trustees, of the University of Illinois.

GENTLEMEN: In fulfillment of duty, I respectfully submit an account of affairs concerning the progress of the University during the quarter now closing, together with some papers presented for your consideration. The usual biennial financial exhibit of the departments, which have business transactions, is handed you herewith; and there are also appended the biennial reports due at this time of the heads of departments of instruction.

It gives me much pleasure to repeat the favorable report made at your last meeting in regard to the excellent spirit prevailing throughout the University and the very satisfactory progress made in every department thereof. No serious adverse criticism can be made upon anything that has occurred during these three months, and there is no doubt that creditable work has been accomplished. No body of instructors could work together more harmoniously with each earnestly striving to advance the best interests of his special department, while generously contributing in all cases and in all feasible ways to the highest good of the Institution as a whole. There has not been a single instance of expressed dissatisfaction, much less of personal or official contention. This is the best thing that can be said of any University Faculty, if, as in the present case, the men are each active workers not only in the accomplishment of routine duties, but also towards the highest possible advancement of the departments severally committed to their charge.

It would be unreasonable to expect that students should forget their youth and uniformly fall into place with the precision of machinery; but order and loyalty to authority have characterized their behavior and earned for them a complimentary notice. Cheerful compliance has uniformly been given to established rules and to the better requirements of propriety and conscience. The good name of the University is held by

students, as it should be, in high regard and esteem. This is better than absolute submission to prescribed law or any other means of enforcing discipline. Indeed, during the period named, we have had little need for this word in our vocabulary.

The single exception to the desirable and satisfactory condition of affairs has been the absence of the Regent and the loss of his commanding influence, whose early return we now hopefully anticipate.

The roll of students for the present term shows 428 names. Of these, 361 are those of gentlemen and 67 of ladies; 315 are matriculated, or are special students attending the regular University classes; 113 are classed as preparatory, but quite a number of these also take some freshman studies. The total enrollment for the year now reaches 464. This is 47 more than the entire enrollment for last year.

According to the arrangements made at the last meeting of your Board, Mr. Lincoln Bush became a teacher of descriptive geometry at the beginning of the current term, and has succeeded very satisfactorily in his work. He is employed for this term only. It is, therefore, especially proper that mention should be here made of his good services as a capable and accomplished instructor.

Instruction is now fully provided for the remainder of the year.

Reference is made to the reports of the committees appointed by you upon the detail of Lieut. Hoppin, and upon the case of one of the assistant instructors.

THE HAZELTON PRIZE MEDAL.

The prize medal donated by Capt. W. C. Hazelton has been received, and proves to be of an exceedingly beautiful and artistic design. It should be mentioned that the design was made by Mr. James P. Hubbell, of the sophomore class, architectural course. The rules proposed in connection therewith are herewith submitted for your consideration and approval. It is believed that the hopes of the thoughtful and generous donor will be fully realized in the awakening of increased interest in the military drill through competition for this beautiful medal.

UNIVERSITY OF ILLINOIS, Jan. 30, 1890.

To the Trustees of the University of Illinois.

GENTLEMEN: We respectfully request that the following rules, which are acceptable to Capt. W. C. Hazelton, the giver of the medal, be established to govern in the contemplated competitions for the Hazelton Medal:

1. The competition shall take place at the University of Illinois, between the 15th of May and the 15th of June each year. The exact date and time to be determined yearly by the Regent.

2. The medal shall be awarded by a committee of three judges, to be selected by the officer in charge of the military department of this University and approved by the Regent and the donor of the medal; but no professor or student of the University will be so chosen, nor any ex-student who has been in attendance at the University within three years of the date set for the competition.

3. The following may compete: Any student of the University of Illinois who shall have been in attendance at the University during at least sixteen weeks of the current school year, and who has had no more than four unexcused absences from drill during that time, and who may present himself for the competition in full uniform.

4. The award shall be upon the following points, and any student marked lower than seventy-five out of a possible one hundred on any point will not be allowed to take further part in the competition:

- 1—Erectness of carriage, military appearance, and neatness.
- 2—Execution of the school of the soldier without arms.
- 3—Manual of arms with and without the numbers.

5. The medal will be awarded to the competitor having the highest number of points as determined by the judges and approved by the Regent, or by some person designated by him. The medal may be worn by the winner until returned as required by the next rule.

6. The successful competitor shall receipt to the Business Agent of the University for the medal when received by him, and shall return the same on or before May 15th next following the competition.

7. To the successful competitor for each year will be issued a certificate thereof by the University, which certificate will be permanently held by him and entered in the University catalogue and records.

T. J. BURRILL, Acting Regent.

C. B. HOPPIN, 1st Lt. 2d Cav.,

Prof. Military Science and Tactics.

The drill practice has been omitted during inclement weather on account of the unusual prevalence of disease in the order of colds, supposed to be a peculiar malady called influenza or grip, and on account of the want of artificial heat in the drill hall. In this connection attention is especially called to the subject of warming the new drill hall mentioned in the report of Professor Woods. Gymnastic practice has been continued by a large number of students under the arrangements reported to you at the last meeting. Many thanks are due Lieut. Hoppin for his proffered aid in the general supervision of these athletic and health-winning exercises. It is hoped that the better facilities of the new hall may be taken advantage of in providing for more and better gymnastic training and practice. Good bodily development must be secured, if the highest mental capacities are to be gained; and robust health must be considered an essential prerequisite for the best scholarship. The need of some provision for heating the new hall is emphasized, if the room is also to be devoted to gymnastics.

The supply of catalogues has been exhausted since your last meeting; and, there being many calls for them, an abridged circular containing the most important information concerning admission, courses of studies, etc., has been issued to meet the emergency.

ANNUAL CATALOGUE.

Authority is now asked to publish the annual catalogue at the earliest practicable opportunity, at an expense not to exceed \$400. This sum it is believed will be sufficient for an edition of 6,000 copies of the usual size. Last year 5,000 copies were printed.

Upon recommendation of the Faculty the following minor changes in the designated courses of study are proposed and authority is asked to make them, viz.:

English and modern languages, Freshman year.—Instead of rhetoric, American authors and British authors, make the order, American authors, British authors, and rhetoric. *Senior Year.*—Add second year French as extra optional for the three terms of the year.

Ancient languages, Sophomore year.—Read Terence or Tusculan Disputations, instead of the former alone.

Agricultural course, Freshman year.—Substitute rhetoric for British authors.

Courses of mechanical and civil engineering and architecture, Junior year.—Insert with advanced descriptive geometry, hydraulics.

With the exception of the French spoken of, these proposed changes imply nothing additional to the work now required, but they do indicate better the actual requirements or serve better the convenience of instruction. The second year of French is taught in other courses, and it seems proper that the students of the special course in modern languages should at least have an opportunity to take the study. It does not necessitate the formation of a new class for instruction.

Authority is also asked to modify the descriptive matter of the catalogue when this can be made to express more nearly or more clearly the actual present condition of things.

In this connection mention may be made of the desirability of securing some better cuts of the University buildings. A possibility of great improvement in this matter is made evident by an inspection of the illustrations in use. Probably no better use can be made of the requisite amount, if taken from the fund set apart for advertising.

SECURITY FROM FIRE.

The loss by fire of the magnificent building of the Toronto University, which, with the contents consumed, was valued at about one million dollars, besides invaluable collections and accumulations, has again called attention to our own dangers in this respect. Renewed precautions have been taken to prevent such a calamity. The main buildings have been carefully examined and everything supposed possible has been done to remove the liability to fire. The members of the Faculty have undertaken to inform themselves thoroughly as to what to do and how to do it in case of need. An organization of students has been formed under the supervision and command of Lieut. Hoppin, who kindly consents to look after the matter. The details for the purpose, with the necessary accompanying directions, are printed on slips of paper designed to be posted in every occupied room.

Attention is respectfully asked to the provision of fire escapes from the upper story of the main building. From this floor, now daily occupied for class instruction attended by a large number of students, and having upon it the society halls, there is no means of descent except by the central staircase. Other plans may suggest themselves to your wisdom, but a simple escape can be made at each end of the building by cutting through the floor into the hall below where extra stairs exist. These openings may be kept closed by trap doors; and, to prevent accident by their being left open, they may be cased sufficiently high to be safe. A wire or rope ladder would then furnish the escape. Without further recommendations at present, your earnest consideration of the subject is solicited. For quick removal of the books from the library, a canvas chute might be provided to be placed in one of the windows and to reach the ground below.

WORLD'S FAIR IN CHICAGO.

The anticipated holding of a World's Fair in Chicago should be noted, and, as it seems to me, preparations should be entered upon at once for the best possible presentation of the University and its work. To do this, much careful consideration, a good deal of labor, and no small sum of money will be required. With these a magnificent showing can be made and an emphatic demonstration furnished that the University is worthy to receive a large amount of the valuable material which somebody will secure at the close of the great exhibition. Assuming that the fair is to be held, the first thing to do is to decide whether an exhibit by the University shall be made, after which it is presumable that the most that can be done now is to appoint a suitable committee to report at your next meeting. In the meantime, however, enthusiasm can be aroused among members and friends of the institution and an important beginning made before definite plans shall be formulated.

The report of the Building Committee, will give you the details of the work done upon the new drill hall since your last meeting, and the further requirements for the same. But the building reports for itself, and shows that very satisfactory progress has been made. The completion of this structure will mark a mile-stone in the history of the University, and it may be fittingly dedicated to its designed purposes by appropriate ceremonies under your direction. Will you take action upon the subject?

The following statement of the Professor of Agriculture is respectfully submitted:

FARM REPORT.

UNIVERSITY OF ILLINOS, March 8, 1890.

Dr. T. J. Burrill, Acting Regent,

SIR: During the three months ending March 1st, the receipts from the University farms have been \$97.41. The expenditures have been \$453.79.

The low prices for grains, and for hay except when the condition of the roads made the delivery of hay almost impossible, have made it seem not advisable to make sales. It is hoped that with the opening of spring there may be an improved demand for live stock for breeding purposes.

Respectfully submitted,

G. E. MORROW.

CHEMICAL LABORATORY.

The request herewith communicated from the chemical department is worthy of your favorable action if the means can be found to meet the demand. Many petty purchases have been necessary during the current year at prices far above what the goods could have been procured for in bulk, and especially by importation. Economy demands that the laboratory shall be well furnished by the latter method. By reference to the balance sheet of the department, it will be seen that there was received during the year ending March 1, 1890, \$1,309.83 from students, against an expenditure of \$1,400.69 (deducting the \$22.40 furnished other departments). It may be presumed that an increase of students will, at the beginning, augment expenditures more than receipts, just as the original equipment of a laboratory shows a heavy expense account. Putting the \$90.86 debit balance as above with the \$258.77 decrease in inventory, we have a debit balance of \$349.63 over the receipts from the special payments by students. This is not more probably than should be anticipated under the conditions of the year, if students are expected to pay for what they actually use and no more.

UNIVERSITY OF ILLINOIS, March 6, 1890.

Prof. T. J. Burrill, Acting Regent,

SIR: The number of students in attendance in the classes in chemistry is now greater than it has been for several years, and increased expenditure is thereby necessitated. Therefore, in order to derive the greatest possible benefit from our privilege of importing goods duty-free, I recommend that the usual appropriation of six hundred and fifty dollars for chemicals and apparatus be increased to one thousand dollars.

Respectfully submitted,

ARTHUR W. PALMER.

MILITARY DEPARTMENT.

Appropriations of \$41.00 for the military department and \$69.00 for the band are asked for, as set forth in the accompanying communication by Lieut. Hoppin. The former is perhaps sufficiently explained; to the latter statement it should be added that eleven members of the band now use their own instruments, while four depend upon those furnished by the University. These four instruments are essential horns, but they are worn out and unsuitable for good music, as well as liable to break down at any time. Great interest has been taken in the band practice during the year and excellent proficiency has been attained.

It is probable that the matter of a flag-staff and flags should be referred to an appropriate committee.

UNIVERSITY OF ILLINOIS, March 10, 1890.

Prof. T. J. Burrill, Acting Regent,

DEAR SIR: I have the honor to report that the following named articles are needed for use in the military department, viz.:

170 firing pins.....	\$17 00
4 stocks, new.....	12 00
12 stocks repaired (estimated).....	6 00
12 hammers.....	2 50
2 locks, complete.....	2 50
2 lock plates.....	1 00
	<hr/> \$41 00

I would state that these are breakages which have been accumulating for several years, and all, or most of them, should be replaced.

In this connection I would respectfully recommend that a warmed room be provided for the storage of these rifles during the winter, if it shall be found impracticable to heat the new drill hall, as it has been to heat the old one.

The University instruments now in the hands of the band are much worn, and the following should, in my opinion, be replaced if possible:

One b-flat tuba (Helicon).....	\$45 00
Two b-flat tenor horns.....	22 00
Two music stands.....	2 00
	<hr/> \$69 00

I would further recommend that a suitable flag-staff be erected in the vicinity of the new drill hall, and that a set of flags, as follows, be purchased:

One garrison flag 20'x36'.

One post flag 20'x10'.

Two storm flags 4' 2''x8'.

Halyards and blocks should of course be fitted to the staff.

I am, sir, very respectfully your obedient servant,

C. B. HOPPIN,

1st Lieut. 2d Cavalry, Professor Military Science and Tactics.

FINANCIAL STATEMENTS.

The balance sheets of the departments doing business in connection with the work of instruction are given below. That of the agricultural department shows a deficit of \$258.21. This is largely owing to a loss of about one thousand dollars' worth of material in the fire which consumed the barn; but the prevailing low prices for farm produce have also contributed to this result. The credit balance of the horticultural department is due rather to the small cost of the work to the University, than to large proceeds.

BALANCE SHEETS.

THE DEPARTMENT OF AGRICULTURE.

<i>Credits:</i>		
Inventory, Dec. 1, 1889—		
Live stock, including teams.....	\$10,275 00	
Machinery and tools.....	1,400 00	
Farm products and miscellaneous.....	2,292 00	
		\$13,967 00
Sales—Live stock.....	\$2,138 66	
Farm products and miscellaneous.....	1,630 12	
Labor.....	236 43	
		4,005 21
Deficit.....		258 20
		<u>\$18,230 41</u>
<i>Debits:</i>		
Inventory, Dec. 1, 1888:		
Live stock, including teams.....	\$10,115 00	
Machinery and tools.....	1,800 00	
Farm products.....	3,615 00	
		\$15,530 00
Expenses: Labor.....	\$1,727 24	
Stock.....	315 75	
Machinery.....	235 02	
Miscellaneous.....	422 40	
		2,700 41
		<u>\$18,230 41</u>

THE HORTICULTURAL DEPARTMENT.

<i>Credits:</i>		
Cash from greenhouse.....	\$165 47	
Small fruits.....	95 13	
Nursery and forest.....	5 25	
Garden.....	16 25	
Orchard.....	119 82	
		\$401 92
<i>Debits:</i>		
Greenhouse.....	\$189 32	
Small fruits.....	48 52	
Orchard.....	24 78	
		\$262 62
Balance.....		139 30
		<u>\$401 92</u>

THE CHEMICAL LABORATORY.

<i>Credits:</i>		
State appropriations.....	\$625 00	
Receipts from students.....	1,309 83	
Other departments.....	22 40	
		\$1,957 23
<i>Debits:</i>		
Chemicals and apparatus, permanent.....	\$106 24	
Chemicals and apparatus, current.....	799 56	
Repairs, freight and sundries.....	199 29	
Gas.....	318 00	
		\$1,423 09
Balance.....		534 14
		<u>\$1,957 23</u>
Inventory, March 1, 1889.....		\$14,574 56
Inventory, March 1, 1890.....		14,315 79

THE MACHINE AND CARPENTER SHOPS.

	Machine Shop.	Carpenter Shop.
<i>Credits:</i>		
Work for University.....	\$570 03	\$4,064 80
Work for other parties.....	33 05	503 88
State appropriations.....	1,025 72	625 00
	\$1,628 80	
Deficit	1,082 68	\$5,193 68
	\$2,711 48	347 55
		\$5,541 23
<i>Debits:</i>		
Materials and tools	\$671 46	\$1,496 29
Labor	258 18	2,673 10
Power	231 84	231 84
Instruction	1,550 00	1,140 00
	\$2,711 48	\$5,541 23
Inventory, February 23, 1889	\$321 69	\$873 21
Inventory, February 23, 1890	277 94	1,193 59

A report of the Board of Direction of the Agricultural Experiment Station is herewith presented. In this connection I may say that the representatives of the State Board of Agriculture, Mr. E. E. Chester, of the State Horticultural Society, Mr. Henry M. Dunlap, and of the State Dairymen's Association Mr. H. B. Gurler, the present incumbents, stand recommended to you as members of the Board of Direction.

REPORT OF EXPERIMENT STATION.

Prof. T. J. Burrill, Acting Regent, University of Illinois,

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

Paper A is a list of vouchers to be audited, Nos. 530, and 536 to 599, inclusive, and with it are the vouchers.

Paper B is a statement of the Station expenditures for the quarter ending December 31, 1889.

Paper C is a statement of the appropriations, expenditures and balances for the half year ending December 31, 1889.

Paper D is a statement of the appropriations, expenditures, and balances March 1st for the quarter ending March 31, 1890.

Paper E is a statement of appropriations asked for the purpose of carrying on the work of the Station for the quarter ending June 30, 1890, and of some further appropriations asked for this quarter.

Estimates for the quarter ending June 30, 1890:	
Buildings and repairs.....	\$40 00
Board expense.....	40 00
Books and periodicals.....	150 00
Botanical apparatus.....	10 00
Bulletins.....	350 00
Chemical apparatus.....	75 00
Fuel and lights.....	100 00
Incidentals.....	25 00
Printing, stationery and postage.....	25 00
Salaries.....	1,850 00
Seeds and trees.....	80 00
Tools.....	40 00
Wages and teams.....	1,000 00
Sundry—	
Corn experiment at Elora.....	20 00
Dairying experiment at DeKalb.....	100 00
Extirpation of Canada thistles at Mattoon.....	5 00
Materials for tree protection experiments.....	20 00
Wheat experiment— at Elora, Odin, and Farina.....	30 00
Total.....	\$3,960 00

For the current quarter, to make up a deficiency in the dairying experiments, an appropriation is asked of \$30.

Paper F is a record of experiments undertaken by the Station for the year ending March 11, 1890.

TABLE SHOWING EXPERIMENTS IN HAND DURING YEAR.

No of experiment.	Class and title of experiment.	Still in progress.	Finished	To be repeated...	Reported in bulletin.....
<i>Field Experiments—</i>					
1	Corn, testing varieties	+	+	+	No. 8
2	Corn, testing varieties for ensilage	+	+	+	No. 8
3	Corn, time of planting	+	+	+	No. 8
4	Corn, depth of planting	+	+	+	No. 8
5	Corn, thickness of planting	+	+	+	No. 8
8	Corn, frequency of cultivation	+	+	+	No. 8
9	Corn, depth of cultivation	+	+	+	No. 8
10	Corn, effect of root-pruning	+	+	+	No. 8
11	Corn, effect of fertilizers	+	+	+	No. 8
12	Oats, quantity of seed per acre	+	+	+	No. 7
13	Oats, compact or loose seed-bed	+	+	+	No. 7
14	Oats, time of sowing	+	+	+	No. 7
15	Oats, depth of sowing	+	+	+	No. 7
16	Grasses, comparison of varieties	+	+	+	No. 7
17	Clovers, comparison of varieties	+	+	+	No. 7
18	Grasses and clovers sown with or without grain	+	+	+	No. 7
19	Grasses, field tests of varieties	+	+	+	No. 7
20	Clovers, field tests of varieties	+	+	+	No. 7
21	Grasses and clovers, field tests of mixtures	+	+	+	No. 7
22	Weeds, number and kinds on given areas	+	+	+	No. 7
23	Rotation, University experiments continued	+	+	+	No. 7
24	Fertilizers, comparison of	+	+	+	No. 8
50	Grasses and clovers, effect of ripeness on yield and chemical qualities	+	+	+	No. 5
53	Wheat, effect of time and manner of harvesting	+	+	+	No. 5
54	Corn, root growth	+	+	+	No. 8
62	Wheat, effect of fertilizers	+	+	+	No. 8
63	Wheat, methods of soil preparation	+	+	+	No. 8
64	Wheat, large or small seed	+	+	+	No. 8
65	Wheat, quantity of seed per acre	+	+	+	No. 8
66	Wheat, time of sowing	+	+	+	No. 8
67	Wheat, depth of sowing	+	+	+	No. 8
68	Wheat, its relation to chess	+	+	+	No. 8
69	Wheat, its protection from chinch bugs; effect of fertilizers upon. [Experiment at Flora, Odin and Farinal]	+	+	+	No. 8
71	Corn fodder, effect of ripeness	+	+	+	No. 7
84	Oats, testing varieties	+	+	+	No. 7
85	Oats, effect of sowing spring wheat with	+	+	+	No. 7
86	Fertilizers, effect on grass lands	+	+	+	No. 7
88	Beets, testing varieties	+	+	+	No. 7
89	Corn, cross fertilization of	+	+	+	No. 7
90	Corn, rate of growth	+	+	+	No. 7
95	Corn, effect of sowing rye in	+	+	+	No. 7
<i>Feeding Experiments—</i>					
26	Feeding cattle of different breeds	+	+	+	No. 7
27	Cost of production of young steers	+	+	+	No. 7
28	Cost of production of young colts	+	+	+	No. 7
29	Cost of production of young calves	+	+	+	No. 7
58	Record of milk product [milk measured in experiment No. 29]	+	+	+	No. 7
60	Pigs, comparison between corn, grass and corn, and grass in feeding	+	+	+	No. 7
81	Value of offal fed to pigs	+	+	+	No. 7
82	Feeding ensilage to colts	+	+	+	No. 7
83	Comparison of corn meal, and of corn meal and wheat meal fed to pigs	+	+	+	No. 7
87	Pigs, comparative value of soaked and dry corn in feeding	+	+	+	No. 7
99	Heifers, comparative value of ensilage and corn fodder in feeding	+	+	+	No. 7
100	Pigs, comparative value of corn and beets, and corn in feeding	+	+	+	No. 7
<i>Tree Culture—</i>					
31	Orchard, soil cultivation and management	+	+	+	No. 7
32	Orchard, soil fertilization	+	+	+	No. 7
33	Apples, testing new varieties by planting	+	+	+	No. 7
34	Apples, testing new varieties by top-grafting	+	+	+	No. 7
35	Apples, testing hardiness of root-grafted and double-worked trees	+	+	+	No. 7

No. of experiment.	Class and title of experiment.	Still in progress...	To be repeated....	Finished.....	Reported in bulletin.....
	<i>Tree Culture—</i>				
36	Pears, testing new varieties.....	+			
37	Plums, testing new varieties.....	+			
38	Cherries, testing new varieties.....	+			
39	Forest trees, growing of.....	+			
57	Trees, use of insecticides on.....	+			
78	Testing time and methods of transplanting trees.....	+			
79	Testing and improving native fruits.....	+			
80	Testing the effects of stock and cion upon each other.....	+			
91	Peach trees, winter protection of.....	+			
	<i>Vine Culture—</i>				
40	Grapes, testing new varieties.....	+			
41	Grapes, methods of training.....	+			
42	Grapes, soil treatment.....	+			
	<i>Small Fruit Culture—</i>				
43	Blackberries, testing varieties.....	+			
44	Raspberries, testing varieties.....	+			
45	Strawberries, testing varieties.....	+			
46	Strawberries, method of management.....	+			
51	Strawberries, raising seedlings.....	+			
52	Raspberries, soil management.....	+			
	<i>Gardening—</i>				
48	Beans, testing varieties.....	+			
49	Sweet corn, testing varieties.....	+			No. 8
56	Potatoes, investigation of scab.....	+			
	<i>Tree and Vine Culture—</i>				
55	Fungicides, use of.....	+			
	<i>Miscellaneous—</i>				
73	Record of soil temperatures.....	+			
75	Soil moisture, evaporation of water from the surface of water, of uncultivated soil, of cultivated soil, of a corn plant, and of grass.....	+			
76	Meteorological record from August 17, 1888.....	+			
77	Biology of ensilage.....	+			No. 7
92	Canada thistles, extermination of. [At Mattoon].....	+			
93	Fruits, production of new varieties from seeds.....	+			
94	Vitality of timothy, bluegrass, and red-top seeds tested.....	+			
96	Horses, investigation of "slobbers" in.....	+			
97	Vitality of seeds tested.....	+			
98	Cattle, investigation of disease sometimes attacking them when turned into stalks.....	+			

The Board of Direction, on recommendation of its Committees on Field, Feeding, Dairy, and Horticultural Experiments, has directed the continuance of work along the lines pursued during the past year. Some of the experiments in progress are of such character that they will continue for several years; others it is desired to repeat—in some cases with slight modifications; while others will not be carried on further.

In addition, authority is asked to undertake the following new experiments, each of which is in the line of work hitherto authorized:

1. Cost of production of pumpkins. These will be raised with a view to using them for feeding purposes.
2. The protection of trees from borers, mice, rabbits, and other animals.
3. The protection of trees from climatic injuries.

To carry on this work for the current and the next quarters, appropriations are asked as in paper D.

The Board of Direction wishes to use this season the lands already assigned, and asks that they be reassigned.

Authority is also asked to get bids for chemical and botanical supplies for the year beginning July 1, 1890, and to order the same on satisfactory bids—the amount for the chemical laboratory being limited to \$225.00, and for the botanical laboratory to \$50.00.

Mr. E. H. Farrington accepted your appointment as Assistant Chemist of the Station, at a salary of \$1,500 per year, and began work January 1, 1890. His work has been entirely satisfactory.

The Board of Direction has reappointed the Station staff for the ensuing year, beginning April 1, 1890, with salaries as at present, and asks that its action be confirmed.

Respectfully submitted,

G. E. MORROW,

Acting President Board of Direction.

Turning now to requests and suggestions concerning appropriations of money, your considerate attention is asked to the following items, whether or not hereinbefore mentioned:

APPROPRIATIONS ASKED.

From state appropriation for buildings and grounds—

For care of grounds	\$155 71
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From current funds—

For care of grounds	\$144 29
For physical laboratory	105 00
For band instruments	69 00
For commencement expenses	200 00

From appropriation for military department—

For repair of rifles	\$41 00
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From appropriation for horticultural department—

For painting greenhouse	\$60 00
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In concluding this report to you, the last in my present position, I have only to express my high appreciation of the honor conferred upon me by your appointment, and to thank you for the many kindnesses received at your hands.

I am very respectfully yours,

T. J. BURRILL, Acting Regent.

EVENING SESSION.

When the Board met in the evening at the Doane House, pursuant to adjournment, the same members were present as in the afternoon, and also Mr. McKay.

The recommendations of the Regent's report and other University matters were discussed.

The Business Agent's report was received as follows:

UNIVERSITY OF ILLINOIS, March 11, 1890.

Alexander McLean, Esq., Pres. 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 showing of the current appropriations for the past six months.

Paper B gives the condition of the state appropriations March 1, 1890.

Paper C is a list of vouchers presented for audit, being 201 to 450, inclusive.

Paper D is an estimate of receipts and expenses, current funds, for the six months ending September 1, 1890.

The Board is requested to appropriate the amount for the estimated expenses.

I also present with inclosed papers, at the request of Mr. F. Felkel, a communication from him marked *E*.

Respectfully submitted,

S. W. SHATTUCK, Business Agent.

PAPER A—CURRENT APPROPRIATIONS.

Of Sept. 10, and Dec. 10, 1889.	Appropriated	Receipts also appropriated.	Expended.	Balance.
Board expense.....	\$300 00	.....	\$236 02	\$63 98
Salaries for instruction { Current	22,700 00	.....	5,239 98	1,893 82
{ State.		.....	15,566 20	
" " services.....	1,900 00	.....	1,879 61	20 39
Buildings and grounds.....	200 00	\$93 00	273 81	19 19
Fuel and lights.....	2,000 00	147 71	1,225 78	921 93
Stationery and printing.....	350 00	.....	343 51	6 49
Mechanical department.....	300 00	530 34	738 79	91 55
Architectural.....	300 00	2,387 05	2,583 73	103 32
Agricultural.....	200 00	2,204 96	1,211 37	1,163 59
Horticultural.....	200 00	205 50	189 75	215 75
Military.....	50 00	54 00	96 73	7 27
Laboratories.....	200 00	807 54	704 14	303 40
Library and apparatus.....	50 00	.....	37 94	12 06
Incidentals.....	323 42	.....	288 75	34 67
<i>Sundries—</i>				
Furniture and fixtures.....	250 00	.....	227 04	22 96
Water supply.....	200 00	.....	200 00	.....
Boiler repairs.....	600 00	.....	518 79	81 21
Drill hall.....	4,000 00	.....	2,904 94	1,095 06
Farm barn.....	1,500 00	.....	1,327 67	172 33
Minnesota and Nebraska lands.....	66 18	.....	66 18	.....
Preparatory year.....	.....	1,192 50	1,183 28	9 22
University students' fees.....	.....	7,881 50	.....	7,881 50
Music fees.....	.....	108 00	108 00	.....
New engine.....	150 00	.....	53 85	96 15

PAPER B—STATE APPROPRIATIONS.

	Appropriated	Received.	Expended.	Balance.
Taxes on lands ($\frac{1}{2}$ per annum).....	\$3,400 00	\$1,543 62	\$1,543 62	.....
Buildings and grounds ($\frac{1}{2}$ per annum).....	5,000 00	2,500 00	2,344 29	\$155 71
Mech. and A ch. shops ($\frac{1}{2}$ per annum).....	3,000 00	1,500 00	870 00	630 00
Books and publications ($\frac{1}{2}$ per annum).....	2,000 00	1,000 00	516 90	483 10
Cabinets ($\frac{1}{2}$ per annum).....	1,000 00	50 00	91 77	408 23
Expenses of instruction ($\frac{1}{2}$ per annum).....	40,000 00	20,000 00	15,566 20	4,433 80
Apparatus and material ($\frac{1}{2}$ per annum).....	3,000 00	1,500 00	1,336 61	163 39
Metallurgical laborator. ($\frac{1}{2}$ per annum).....	4,000 00	4,000 00	2,626 98	1,373 02
Drill hall.....	10,000 00	10,000 00	10,000 00	.....
New boiler for machine shops.....	1,250 00	1,250 00	.....	1,250 00
Illinois State Laboratory of Natural History.....	\$72,650 00	\$43,793 62	\$34,896 37	\$8,897 25
	15,123 62	9,873 62	5,604 48	4,269 14

The Board adjourned to meet at the University parlor at 9 o'clock a. m.

SESSION OF WEDNESDAY.

The Board met pursuant to adjournment, and, Mr. Haskell having arrived, there was a quorum present.

The minutes of the last meeting were approved.

The Treasurer's report was received and referred to the Committee on Auditing and Finance.

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

		Dr.		
1889.				
December	10	To balance.....		\$31,009 08
	16	" interest on Sangamon county school bonds.....		168 00
1890.				
January	2	" " " Chicago water bonds.....		875 00
	2	" " " from treasurer.....		2,130 00
	15	" " " on Champaign school bonds.....		360 00
	21	" amount received on account fuel and lights.....	30 00	
		laboratories.....	21 25	
				51 25
		To interest on land contract No. 1. A. Hubka.....	92 80	
		5. D. C. Bashor & A. Ault, assignee.....	92 00	
		6. John J. Middleton assignee.....	40 00	
		9. C. M. Dawson.....	40 00	
		11. Jacob Stambaugh, assignee.....	120 00	
		13. H. T. Willis & A. W. Mills.....	120 00	
		14. W. L. Collins.....	121 33	
		15. P. A. Moore, assignee.....	96 00	
		17. R. L. Gumaer.....	24 00	
		18. D. A. Young, assignee.....	96 00	
		19. L. Larsen.....	120 00	
		21. Dennis Wagner.....	51 13	
		22. H. H. Snyder & J. F. Martin.....	32 00	
		26. H. A. Greenwood, assignee.....	56 00	
		30. E. L. Baughman, assignee.....	81 67	
		31. J. H. Hanson.....	104 00	
		32. P. C. O'Brien.....	222 90	
		33. C. Hesse.....	70 20	
		34. J. & H. J. Swoboda.....	80 00	
		35. J. & W. Losey.....	96 00	
		36. W. H. Ruyle, assignee.....	120 00	
		38. Nelson R. Simpson.....	120 00	
		39. J. E. Blikenstaff.....	120 55	
		40. Joseph Dezort.....	123 70	
		41. A. L. French & U. M. Losey, assignee.....	120 00	
		42. F. L. Marrs & W. S. Morton.....	120 00	
		43. Samuel Cox.....	67 20	
		44. Chas. E. Baker.....	67 20	
		45. Blevins & Miller.....	124 48	
		46. W. H. Ruyle, assignee.....	360 80	
		47. M. Hubka.....	127 73	
		50. B. T. Hnizda.....	85 15	
		51. James Skubal & J. W. Hnizda.....	90 00	
		52. J. W. Hnizda.....	48 00	
		54. B. F. Leiby.....	128 40	
		57. C. Anderson.....	120 00	
		58. E. Muhlhausen.....	111 97	
		59. Frank Havlina.....	48 00	
		60. James Havlina.....	48 00	
		62. R. H. & W. Muhlhausen.....	101 20	
				4,008 41

Treasurer's Report—Continued.

		<i>Dr.</i>			
1890.					
February 28	To amount received on account	buildings and grounds ..	\$50 50		
		fuel and lights	32 89		
		mechanical department ..	313 13		
		architectural department ..	1,261 89		
		agricultural department ..	97 41		
		horticultural department ..	65 60		
		military department	54 00		
		laboratories	608 29		
		university students' fees ..	3,257 50		
		preparatory year fees ..	485 00		
		music fees	108 00		
				\$6,334 21	
				\$44,935 95	
		<i>Cr.</i>			
1890.					
February 28	By amount paid on account	salaries	\$3,705 54		
		board expense	115 75		
		buildings and grounds ..	66 75		
		fuel and lights	716 10		
		stationery and printing ..	195 49		
		preparatory year	608 30		
		mechanical department ..	344 82		
		architectural department ..	1,293 45		
		agricultural department ..	453 79		
		horticultural department ..	133 09		
		military department	58 50		
		laboratories	347 23		
		library and apparatus	7 49		
		incidental expense	83 05		
				\$8,129 35	
		furniture and fixtures	\$16 69		
		drill hall	1,942 84		
		farm barn	450 04		
		new engine	53 85		
		music	108 00		
				2,571 42	
	State appropriations—				
	By amount paid on account	buildings and grounds	\$154 18		
		mechanical & arch'l shops ..	450 00		
		books and publications ..	370 68		
		cabinets	68 05		
		expenses of instructions ..	7,766 44		
		apparatus and material ..	263 99		
		drill hall	1,471 46		
		State Laboratory of Natural History	1,251 77		
				11,796 57	
	Balance			22,438 61	
				\$44,935 95	

Urbana, March 11, 1890.

JOHN W. BUNN, Treasurer.

On motion of Mr. Cobb the matter of the back rent of the Griggs farm was referred to the Business Agent, with power to collect.

Mr. Bennett reported orally as to the Minnesota lands, that circulars showing terms of sale, etc., had been issued, but that so far no bids had been received. He said further that some one, with authority to lease for one year lands in Pope county already broken, should visit the lands about the time when the spring's work begins in that locality.

On motion of Mr. Edwards, the committee was instructed to send one of its members to visit the lands at the time named, and one hundred dollars was appropriated from current funds for his expenses.

The request from the students' societies for one-half hour's gas additional to what is now given them was put over, with other questions relating to the societies, until the June meeting of the Board.

The question of fire escapes was referred to the Committee on Buildings and Grounds, to report on at the next meeting.

The appropriations asked for in the Regent's report were made, as asked.

Thirty dollars was appropriated from current funds for cementing the floor of the wash-room in the basement of the main building.

The Business Agent and Professor Palmer were authorized to procure bids for the apparatus and supplies for the chemical laboratory and to contract for the same upon a satisfactory bid—the total cost to be limited to \$1,000, of which \$500 shall come from the state appropriation for apparatus and material and \$500 from the laboratory fees.

The Acting Regent was, on motion of Mr. Bennett, authorized to have the changes made in the courses of study, and in other respects, in the catalogue, as suggested in his report.

The following communication was received from Mr. Foster North, of Kewanee:

To the Board of Trustees of the University of Illinois.

The undersigned, Foster North, of Kewanee, Illinois, respectfully represents that he was matriculated as a student in the University of Illinois in September, 1879, and that after he had completed enough studies to entitle him to a certificate of graduation, and forty days before he was to graduate as a bachelor of science in school of natural history, he was suspended indefinitely, April 30, 1885, from said University; that the only charge against him was his refusal to attend religious worship in said University; and that this Board being duly petitioned, refused to restore the undersigned to his right of attendance as a student upon the University and this action of the Board is still unrevoked; that the rule requiring attendance of students upon religious worship was and is a violation of the constitution of the State of Illinois; that the undersigned has violated no lawful rule nor disobeyed any lawful authority of said University, and his suspension was wrongful and illegal. And he further says that on the 11th day of March, 1890, he applied to the Regent of the University, who is a member of the Faculty of said University and is authorized to admit students to the said University, and thereupon, the said Regent, in behalf of and for the Faculty, refused such admission; which refusal he says was wrongful and illegal.

Wherefore he asks that this Board, at the present meeting, restore to him his right of attendance as a student of said University.

And he further asks to be allowed to appear before this meeting of the Board and be heard upon the matter of this petition.

FOSTER NORTH.

Champaign, Ill., March 11, 1890.

Mr. North having asked leave to state his case to the Board, and this having been given, he said, in substance, that his application to the Supreme Court at Ottawa for a mandamus to compel the Board to reinstate him as a member of the Univer-

sity had been denied on the ground that the present Board was not the same which had refused his request for reinstatement in 1885, and had not been asked to reinstate him. He said his only object in presenting his formal request for a reinstatement was that he might have a standing in making, as he proposed doing at once, a further request for a mandamus.

When asked by Mr. Bennett whether or not he would, if reinstated, comply with the rules, for non-compliance with which he had been suspended, Mr. North answered, "I would not."

After Mr. North had retired, the Board instructed the Secretary, on motion of Mr. Bennett, to answer his communication in the following words:

"In reply to your communication to the Board of Trustees of the University of Illinois, of March 11, 1890, in relation to your suspension from the privileges of the University in 1885, the Board directs me to say:

"That, as you are aware, the facts relating to your suspension were at that time referred to the Attorney General of this state, who is the legal adviser of this Board, for his opinion thereon: that the action of the Faculty and of the Board of Trustees of the University was strictly in accordance with the opinion given by him, and that the Board knows no reason for changing its action in the premises."

The Secretary was further instructed to send to the Attorney General the papers in the Foster North case and to request him, on behalf of the Board, to represent the Board in any legal proceedings which might arise.

The Board then proceeded to the election of officers for the next year.

On motion of Mr. Cobb, Mr. McLean was elected President.

On motion of Mr. Haskell, W. L. Pillsbury was elected Corresponding Secretary and Recording Secretary.

Mr. Cobb and Mr. Bennett were named as the two members who should, with the President, constitute the Executive Committee.

On motion of Mr. Bennett, the matter of new cuts of the buildings was referred to the Committee on Publications with power to act, any amount spent by them to come from the appropriation for catalogues and advertising.

The question of preparing an exhibit for the World's Fair, if it should be determined to hold it in Chicago, was postponed to the June meeting. But the Executive Committee were instructed to take such steps as might, meanwhile, prove necessary.

The committee appointed at the last meeting to look after securing an extension of Lieut. Hoppin's detail as military instructor at this University, reported upon the matter.

The report was received, and the committee continued.

The recommendation with regard to flag-staff and flags was referred to the Committee on Buildings and Grounds, to report upon at the next regular meeting.

On motion, the Regent, Professor Forbes, and the Business Agent were charged with the proper expenditure of the balance of the state appropriation for cabinets.

On motion of Mr. Bennett, the subject of the preparatory department of the University, and of the advisability of discontinuing it at an early day, was referred to the Committee on Instruction, to report upon at the June meeting.

Messrs. E. E. Chester, of Champaign, H. M. Dunlap, of Savoy, and H. B. Gurler, of DeKalb, were, on motion of Mr. Cobb, elected to represent upon the Board of Direction of the Agricultural Experiment Station, the Illinois State Board of Agriculture, the Illinois State Horticultural Society, and the Illinois State Dairymen's Association, respectively.

Dr. S. H. Peabody was elected a member of the Board of Direction and designated as its President.

Professors Burrill and Morrow were elected members of the Board of Direction, and Professor Morrow was continued as Acting President during Dr. Peabody's absence.

Messrs. Cobb, Haskell, and Bennett, of the Board of Trustees, were also appointed members of the Board of Direction, on motion of Mr. McKay.

Dr. Peabody and Messrs. Cobb and Chester were made the Executive Committee of the Board of Direction.

The reappointment by the Board of Direction of the present staff of the Experiment Station for one year from April 1st next was confirmed, and the salaries continued as at present.

Station Staff.	Salary.
George E. Morrow, Agriculturist.....	\$600 00
Thomas J. Burrill, Horticulturist and Botanist.....	600 00
Donald McIntosh, Veterinarian.....	.....
Thomas F. Hunt, Assistant Agriculturist.....	1,500 00
George W. McCluer, Assistant Horticulturist.....	1,200 00
Edward H. Farrington, Assistant Chemist.....	1,500 00
William L. Pillsbury, Secretary.....	2,000 00

Authority was given the Board of Direction to continue and repeat experiments, and to undertake new experiments, as asked in its report to the Acting Regent.

On motion of Dr. Edwards, appropriations of Station funds were also made, as asked in the same report, and the Board of Direction was given authority to get bids for apparatus and supplies, and to contract for the same on a satisfactory bid, as asked.

The following appropriations from current funds, as asked by the Business Agent, were made, on motion of Mr. Cobb:

APPROPRIATIONS.

Board expenses	\$300 00
Salaries for instruction.....	20,915 00
Salaries for services	1,600 00
Buildings and grounds.....	400 00
Fuel and lights.....	1,500 00
Stationery and printing, usual, \$300; catalogues and advertising, \$1,000	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.....	200 00
Military department.....	100 00
Laboratories	200 00
Water supply	200 00
Furniture and fixtures, balance for cases, \$50; usual, \$50.....	100 00
Drill hall, balance	1,095 06
Farm barn.....	172 33
New engine	96 15
	<hr/> \$29,028 54

On motion of Mr. McKay, the usual quarterly appropriation was made for the State Laboratory of Natural History.

The Executive Committee made the following report, which was, on motion of Mr. McKay, confirmed.

REPORT OF EXECUTIVE COMMITTEE.

To the Board of Trustees, University of Illinois.

GENTLEMEN: At a meeting of the Executive Committee of the Board of Trustees of the University of Illinois held Dec. 21, 1889, it was

Resolved, That the sum of one hundred and fifty dollars be and the same is hereby appropriated for the purpose of building a new engine, as requested by Professor Arthur T. Woods, the same to be charged to current funds.

Resolved, That the second paragraph of the section of "Rules for the Government of Students," entitled "Military Department," which now reads:

"Those who present certificates of disability signed by a physician who shall be duly appointed medical inspector for the battalion,"

be amended to read as follows:

"Those who present satisfactory evidence of physical disability."

ALEX. MCLEAN,	} Executive Committee.
CHAS. BENNETT,	
EMORY COBB,	

The Auditing and Finance Committee made the following reports, both of which were approved.

To the Trustees of the University of Illinois.

GENTLEMEN: Your Finance Committee has examined the vouchers of the University numbered from 201 to 450, both inclusive, and also the vouchers of the Experiment Station numbered from 536 to 599, inclusive, and also No. 530, and finds them to be correct.

March 12, 1890.

F. M. MCKAY,	} Auditing and Finance Committee.
S. A. BULLARD,	

To the 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 \$22,438.61.

March 12, 1890.

F. M. MCKAY, } Auditing and Finance
S. A. BULLARD, } Committee.

The Committee on Buildings and Grounds made the following report, which was approved, on motion of Mr. McKay, and \$1,000 was appropriated for the completion of the building.

REPORT OF COMMITTEE ON BUILDINGS AND GROUNDS.

To the Board of Trustees of the University of Illinois.

GENTLEMEN: Your Committee on Buildings and Grounds has to report that the new drill hall is almost completed; that there remains to finish the building only the painting, drainage, grading, laying of the floors, the lumber for which is already provided, the hardware, and a few minor matters of little expense.

There is a balance in favor of the appropriation for the building of about one thousand and ninety-five dollars, and contracts yet unfinished amounting to about two hundred and eighty-eight dollars.

The work yet to be provided will cost about fifteen hundred dollars, or about seven hundred dollars more than the appropriations as now made. Your committee would respectfully represent that this expense above the appropriation is partly due to having to finish the roof during the winter weather, and asks that the necessary appropriation be made for finishing the building in a good and substantial manner.

March 12, 1890.

Respectfully submitted,
S. A. BULLARD, Chairman of Committee.

The Committee on Buildings and Grounds also made the following report, which was, on motion, approved.

To the Board of Trustees University of Illinois.

GENTLEMEN: Your Committee on Buildings and Grounds realizes that the large amount of extra work required of Professor Ricker in designing and superintending the new drill hall in the present year has been a great draft upon him both in time and care, and we recommend that he be paid three hundred and fifty dollars from current funds for such extra services, and that he be given a leave of absence from June 12 to September 12, 1890.

S. A. BULLARD, Chairman of Committee.

March 12, 1890.

Mr. Bullard moved the following resolution, which was postponed to the next regular meeting:

Resolved, That the building now known as the new drill hall be named and hereafter known as the Military building.

The communication from Mr. Felkel was referred to the Business Agent, who was instructed to reply that the Board of Trustees would not grant his request for a remittance of the

penalty exacted on account of his non-compliance with his contract to furnish iron for the drill hall.

The President announced the standing committees of the Board as follows:

STANDING COMMITTEES.

Executive—McLean, Cobb, Bennett.

Farm—Shawhan, Cobb, Haskell.

Buildings and Grounds—Bullard, Shawhan, Harker.

Finance—McKay, Clemens, Bullard.

Instruction—Bennett, Cobb, Edwards.

Publications—President, Regent, Corresponding Secretary.

Library—Regent, Business Agent, Librarian.

The matter of fences on the Griggs farm was referred to Mr. Shawhan and the Business Agent, with power to act.

Adjourned.

ALEXANDER McLEAN,
President.

W. L. PILLSBURY,
Secretary.