

State Board of Agriculture.

576

MEMBERS OF BOARD.

Hon. Franklin Wells, . . . Constantine,
Hon. Chas. W. Garfield, . . . Grand Rapids,
Hon. Oscar Palmer, . . . Grayling,
Hon. A. C. Glidden, . . . Paw Paw,
Hon. I. H. Butterfield, . . . Lapeer,
Hon. Horace C. Spencer, . . . Flint,
The Governor of the State, } Ex-Officio.
The President of the College, }

Office of the Secretary.

Agricultural College, I. O.

Henry G. Reynolds, Agricultural College, LANSING Ingham Co., Mich. January 8th, 1890.
Secretary.

B. F. Davis, Lansing,
Treasurer.

The Board met, pursuant to adjournment, in their office at the Capitol at 7-30 p.m. All of the members were present.

The minutes of the meeting of Dec. 9th were read and approved.

Mr Butterfield reported an examination of certain of the College cattle affected with tuberculosis & recommended that all the animals of the affected family be isolated from the rest of the herd & disposed of as soon as may be, for beef, if still healthy, or to be buried, if not; further that the cow most seriously affected, be killed & buried at once. (The Red Rose of Derwent)

Tuberculosis

Mr H.H. Hines of the State Live Stock Sanitary Commission was present & spoke at some length on the subject of tuberculosis & the measures necessary in combatting it.

It was resolved that all animals at the College affected with tuberculosis be destroyed at once & that suspected animals be isolated from the rest of the herd, fitted for the block, & when killed sold for beef if found fit for it, or buried if not.

The heads of the different departments of the Experiment Station were present & by request presented outlines of the work which they recommended for the coming year.

Plans for Experiment

The Board then adjourned to meet at the College at 9a.m.

Agricultural College, January 7th, 1890, 9 a.m.

The Board reconvened as per adjournment, with all the members present except Col. McCreery.

It was resolved that the line of experiments for the Farm Department be adopted as presented by Prof. Davenport.

It was moved by Mr. Garfield that Prof. Davenport be authorized to enter upon a course of experimentation with the residue of milk from the dairy experiment outlined by him, in the handling of the milk by different methods & securing the largest possible amount of butter therefrom by the various methods he may employ & that he be provided with the necessary apparatus for conducting the series of experiments. The motion was lost by the following vote; ~~AYE~~, Messrs Wells, Butterfield & Glidden, No, -----3.
Messrs Garfield, Palmer & Clute, Aye-----3.

Dairy Expt.

It was resolved to adopt the plan of experiment presented by Dr. Kedzie.

Prest. Clute presented the resignation by Mr. Crandall of his position as foreman of the Garden department & upon motion it was accepted. It was resolved that the President of the Board & the members of the standing committee of the Board on the Farm department (Messrs Glidden & Butterfield) be a special committee to represent the Board at the meeting of the Executive Committee of the State Agr'l Society to present a request for the erection by the Society of a separate building for the College exhibit at the State Fair and for the presentation of any other matters that may be desirable.

Crandall

Fair Bldg.

It was resolved that Dr. Beal be authorized to purchase as part of the equipment of the Botanical Laboratory, certain local flora or plant lists for \$6.20, Part 1st of Goodale's Physiological Botany, Bessey's Botany, Lubbock's Wild Flowers & Gray's Structural Botany, all from the Botanical special appropriation.

Botanical Books

It was resolved that Dr. Baal, with the advice of the President of the College ~~of the~~ be authorized to have suitable shelves or cases made for storing duplicate herbarium specimens.

Shelves

The Board then took a recess for dinner & to inspect the new Agricultural Laboratory & the carcasses of the cow & calf slaughtered on account of the tuberculosis, after which they reconvened & Prof. Carpenter presented his report as Supt. of Construction of the Agricultural Laboratory.

Agricult. Lab. accepted

It was resolved that Mr. P.F. Cleveland the contractor, be allowed \$40.00 extra for Portland cement in the cellar floor substituted for Louisville cement as contemplated in the proposals.

It was resolved that the Agricultural Laboratory be and is hereby accepted by the State Board of Agriculture for the State Agricultural College & that the Secretary be instructed to pay the Contractor the amount of the contract, \$7100.00, & of the extras approved by the Superintendent & the Board, \$82.99

It was resolved that Prof. Taft's recommendations for Experiment Station work be adopted except in respect to the testing of seeds & flowers and the plans for work at South Haven and that those three matters be deferred for consideration to the next meeting.

It was resolved that the recommendations of Dr. Grange for Experiment Station work be adopted & that he be requested to enter at once on the investigation of the tuberculosis.

It was resolved that the plans of Prof. Cook & Dr. Beal for experimental work, as verbally presented to the Board last evening be approved.

It was resolved that Prof. Cook be authorized to expend \$25.00 from the Zoological special appropriation for Orthoptera.

It was resolved that Prof. Cook be authorized to purchase for \$150.00 a collection of Lepidoptera, to be charged to Current account.

It was resolved that in accepting the resignation of Mr Chas. S. Crandall, Foreman of the Horticultural Department, we desire to record our appreciation of the honest faithful & intelligent service, especially in the field of horticultural experiment, which

he has rendered our institution since his connection with it; and while we sincerely regret his loss from our corps of workers, we congratulate him upon his entrance into a wider field of labor & our best wishes attend him in his new work & associations.

It was resolved that the employment of a foreman of the Horticultural Department be referred to President Clute & Prof. Taft with authority to engage Mr. A. G. Gulley at \$750.00 per annum if agreeable to their judgment.

It was resolved that Prof. Taft be given leave of absence for 18 days from Jan. 14th.

Two communications from the New Jersey State Board of Agriculture relative to the establishment of a United States Board of Agriculture & to the free transmission through the mails of Agricultural reports were read & by resolution laid on the table.

It was resolved that Prof. Carpenter be authorized to purchase a cement testing apparatus.

It was resolved that President Clute be requested to prepare a memorial to be presented to Congress, recommending the transfer of the Weather Service from the War Department to the Agricultural Department & that when prepared it be signed by the President & the Secretary of the Board.

It was resolved that President Wells be authorized to correspond with Assistant Secretary of Agriculture Williams with reference to matters ~~in~~ pending in Congress affecting our Experiment Station & if he find that a representation from our Board in Washington is desirable that he & Col. McCreery proceed to Washington in the interests of the Station.

It was resolved that provision for instruction in Political Economy & Constitutional Law be referred to the President of the College & the Committee on Employees.

It was resolved to adjourn to Wednesday March 5th at 7-30 p.m. at the Capitol.

Henry G. Reynolds Secy

State Board of Agriculture.

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Hon. Horace G. Spencer, . . . & McGuffey Flint.
The Governor of the State, } Ex-Officio.
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Agricultural College, I. O.

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Secretary.

B. F. Davis, . . . Lansing,
Treasurer.

LANSING Ingham Co., (Mich.) March 5th '90

The Board met, pursuant to adjournment, in their office at the Capitol at 7-30 p.m. all the members being present except Governor Luce. The minutes of the meetings of Jan. 6th & 7th were read and approved.

Messrs O. A. Turner & Chas. Ferris of the Union Literary Society of the College were present & on behalf of their society requested that they be granted the use of a site on the College grounds on which to erect a Society building. By resolution they were requested to present their plans before the full Board at their meeting at the College tomorrow at 1 p.m.

Senator John C. Sharp of Jackson being present then made a statement relative to a cow purchased by him of the College.

Adjourned to 9 a.m. at the College.

Orthoptera

Lepidoptera

Crandall Resolutions

A. G. Gulley

Prof. Taft absence

N. J. Bd. of Ag.

Cement Tester

Weather Service Law

Expt. Sta. Law

Instructors

Request for site, W. L. S.

J. C. Sharp, Cow

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 Secretary.

B. F. Davis, Lansing,
 Treasurer.

Ingham Co., (Mich.) Mar. 6th, 9 a.m. 1890.

The Board reconvened with the same members present.

It was resolved that the Prof. of Agriculture be instructed to purchase of Mr. Sharp of Jackson, for the Experiment Station the Short Horn Cow, College Red Rose, for \$145.00 f.o.c. ~~at~~

It was resolved that Prof. Carpenter be authorized to expend \$30.00 from Mathematical special appropriation for photographs of engineering works.

It was resolved that the Professor of Agriculture & the Secretary be authorized to complete the furnishing of the Agricultural Laboratory, within the appropriation.

It was resolved that Prof. Durand be authorized to engage a blacksmith at \$8.75 per week.

It was resolved that Prof. Carpenter be authorized to purchase an astronomical clock & a Y level at an expense of \$80.

It was resolved that the class room heretofore used by Prof. Carpenter be assigned to the Mechanical Department for a drawing room.

It was resolved that the second story tower room of the Mechanical building be assigned for use as a children's school.

It was resolved that the President & Secretary of the College be authorized to confer with the Hesperian Society in reference to a room & to make such arrangement as may be best.

It was resolved that, for the present, Mr. Van DerVoort be given the use of the S.W. corner room of the second story of the Agricultural Laboratory.

It was resolved that Prof. Woodworth be authorized to expend \$150.00 from the Chemical special appropriation for electrical apparatus & that his expenses in connection with the same be paid from the same fund.

It was resolved that Dr. Beal be authorized to purchase for \$28.00 350 Mexican plants to be paid for from the Botanical special fund.

It was resolved that Prof. Wheeler be authorized to go at the expense of the Botanical special fund to Flint to examine the Clark herbarium with reference to its value for the College to purchase.

It was resolved that the desk used for many years in the President's office by Dr. Abbot be presented to President Clute.

It was resolved that President Clute & Profs. Carpenter & Beal be a committee to prepare plans for a College exhibition building on the State Fair grounds & to present the same to the Executive Committee of the State Agricultural Society.

It was resolved that the College make this year one exhibit only & that at the State Fair.

It was resolved that Prof. Carpenter be authorized to expend \$14.00 for a Cyclostyle to be paid for from the special appropriation for the Mathematical Department.

The Board then took a recess for dinner, after which they reconvened with the same members present.

It was resolved that the Union Literary Society be granted permission to erect on the College grounds a building for the use of their society, provided that a site may be agreed upon in consultation with the Board & provided that the general authority of the Faculty shall prevail in such building to the same extent as in the rooms now occupied by the society.

It was resolved that Prof. Carpenter be instructed to proceed with the preparation of plans for the heating by hot water of College Hall & that he put in a system of steam heat for the President's office, the reading room & Prof. Cook's laboratory.

It was resolved that Prof. Carpenter be requested to fit each of the hot water systems on the grounds, not already so provided, with automatic damper regulators.

It was resolved that Prof. Carpenter be requested at his convenience to carry steam heat into Prof. Woodworth's class room.

It was resolved that Prof. Taft be authorized to expend the balance of the special appropriation for his department.

Senator Sharp

Engineer? Photos

Ag. Lab. Furnish

Blacksmith

Astronomical Clock

Class Room

School Room

Hesperians

Van Der Voort

Electric Apparatus

Mexico Plants

Clark Herbarium

Dr. Abbot's desk

Fair Bldg.

Exhibit

Cyclostyle

Union Literary Bldg.

Heating

Dampers

Heat Physical class Room

It was resolved to take from the table that part of the report of Prof. Taft on Experiment Station work which was submitted at the last meeting of the Board, in reference to the work at South Haven. It was resolved that we establish at South Haven a substation to be devoted to experiments in pomology & horticulture & that a sum not exceeding \$1000.00 be appropriated from the Experiment Station funds for the maintenance thereof for the year beginning April 1st 1880; provided, that the people of South Haven shall secure to the State Board of Agriculture for the use of said station, by good & sufficient deed, 5 acres of land immediately adjoining the property of Mr. T. T. Lyon on the south without expense to the Station management.

It was resolved that Prof. Taft be authorized to employ an assistant to be in immediate charge of the substation.

It was resolved that Mr. Glidden of the Board of Agriculture & Prof. Taft of the Experiment Station Council be authorized to complete the arrangements for the organization & equipment of the substation. It was resolved that the expenditure of \$573.00 for the fitting up & equipment of rooms in the Veterinary Laboratory for the purposes of the investigation of the tuberculosis as proposed by Dr. Grange be authorized & carried out in consultation with the Secretary.

It was resolved that the President of the Board be requested to purchase a team of horses for the Farm Department of the Experiment Station.

It was resolved that the purchase of milch cows be referred to the Farm Committee with power to act.

It was resolved that the employment of Mr. Jarred as herdsman till Dec. 1st be authorized.

A communication from the Secretary of the National Association of American Florists was read & laid on the table.

It was resolved that Mr. L. A. Clinton be employed for one month at \$25.00 for cataloguing & work in the President's office.

It was resolved to adjourn to Tuesday April 8th at 7.30 p.m. at the Capitol.

Henry G. Reynolds Secy.

State Board of Agriculture.

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Office of the Secretary.

Henry G. Reynolds, Agricultural College,
Secretary.
B. F. Davis, Lansing,
Treasurer.

LANSING *Ingham Co., (Mich.)* APRIL 8th 1890

Agricultural College, Mich.

The Board met, pursuant to adjournment, in their office at the Capitol at 7-30 p.m., all of the members being present.

The minutes of the meetings of March 5th & 6th were read & approved.

It was resolved that the chamber rooms of the College Green House be repapered under the direction of the Secretary.

President Clute reported to the Board the destruction by fire on the night of Sunday, Mar. 23rd of the Botanical Laboratory, & it was resolved that Lieut. Simpson be requested to organize & train a College fire department & act as its chief.

It was resolved that a special committee of two be appointed by the Chair to report tomorrow to the Board recommendations relative to fire protection.

It was resolved that the President be authorized to use the drill hall for summer students, provided that the College be at no special expense on their account.

It was resolved that the question of hall lamps for Abbot Hall be referred to the Committee on Buildings to report tomorrow

Col. Wm. B. McCreery announced to his fellow members on the Board his having accepted an appointment as United States Consul at Valparaiso, Chili & tendered his resignation from the Board expressing at the same time his cordial good will & fellowship toward each of his confreres & begged permission to suggest the name of ex-Senator Horace C. Spencer of Flint as of one eminently suitable to fill the vacancy thus made.

It was resolved that Prof. Anderson be authorized to expend the balance of the appropriation for his department for a bookcase, some books for class reference & a duplicating apparatus. The Board adjourned to 9 a.m. at the College.

MEMBERS OF BOARD.

Office of the Secretary.

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 Hon. Chas. W. Garfield, . . . Grand Rapids.
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*Agricultural College I. O.**Ingham Co., (Mich) A P R I L 9th 1890*Henry G. Reynolds, Agricultural College,
Secretary.B. F. Davis, Lansing,
Treasurer.

The Board reconvened at 9 a.m. with all the members present & also Messrs W.W. Morrison & C.P. Hulburt who presented for the Eclectic Society a request for assistance in fixing up their rooms. It was resolved that the Building Committee be requested to look into the matter & report upon it this afternoon.

Eclectic Society

It was resolved that the repair of the front steps of Williams Hall as recommended by the Committee on Buildings be done under the direction of the Secretary.

Williams Hall Steps

It was resolved that the eaves of the Armory building be at once protected from leaks, by the Secretary.

Armory eaves

It was resolved that two hall lanterns be purchased at about \$2.50 each, for the corridors of Abbot Hall.

Hall lanterns

It was resolved that the Secretary be instructed to provide for fire protection, one additional hydrant & \$75.00 worth of small hose, ladders & hose cart.

Fire protection

The communication from the Society of American Florists was taken from the table & referred to Prof. Taft for report.

American Florists

The Board then took a recess for dinner after which they reconvened, with ~~all~~ all the members present.

It was resolved that Prof. Carpenter be authorized to employ a common laborer to assist in firing so as to free the engineer & enable him to work on the new heating apparatus for College Hall.

College Hall Heater

It was resolved that Prof. Carpenter be authorized to have the water pipes around the 3 west houses of Faculty Row relaid.

Water Pipes

It was resolved that the question of scuttles for the dwellings occupied by Profs. Cook & Carpenter be referred to the Building Committee with power to act.

Scuttle Holes

It was resolved that Dr. Kedzie be authorized to expend \$50.00 for Experiment Station seeds.

Seeds

It was resolved that Dr. Beal in consultation with the Secretary be authorized to have constructed some well made cases for the herbarium; to cost not more than \$200.00 & to be paid for from the Contingent Building fund.

Herbarium Cases

It was resolved that Dr. Beal be authorized to expend \$56.00 of the Botanical special appropriation for herbarium plants of Mr. C.G. Pringle.

" Plants

It was resolved that Mr. C.F. Wheeler be authorized to make during the year 8 trips for collecting plants to cost within \$50.00 in total and to be paid for from the Botanical fund.

C. F. Wheeler

It was resolved that Dr. Beal be authorized to expend \$75.00 from the Botanical special appropriation for supplies.

Botanical supplies

The Board then on motion proceeded to ballot for a successor to Col. McCreery and on the first ballot the Hon. Horace C. Spencer of Flint was elected to fill the vacancy.

H. C. Spencer elected

It was resolved that Mr. L.A. Clinton be employed for the balance of the College year for cataloguing at \$25.00 per month to be paid from the special appropriation for the Library.

L. A. Clinton

The special committee to whom was referred the request of the Eclectic Society reported that the condition of the funds did not seem to warrant the expenditure asked for.

Eclectic Society

The report was accepted & adopted.

It was resolved that when the Board adjourns it shall be to meet in the Capitol on Monday June 9th at 7-30 p.m.

It was resolved that the site for the Union Literary Society building be referred to President Clute & Prof. Taft with power to act.

U. S. Bldg.

It was resolved that Prof. Taft be authorized to do with the Wells Hall vineyard as he sees fit.

Vineyard

The question of locating orchard trees at the Grayling sub station was decided in favor of using land belonging to the Station without motion.

Grayling orchard

The question of providing a shed for the Garden Department night-soil cart was referred to the Building Committee with power to act.

Garden shed

It was informally agreed that a part of the Culvert fund be devoted to a foot bridge over the ravine.

Ravine bridge

It was resolved that the wood shed on the west side of Williams Hall be removed.

Wood Shed

The Board then adjourned to June 9th at 7-30 p.m.

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~~Agricultural College, I. O.~~

Henry G. Reynolds, Agricultural College, L A N S I N G, Ingham Co., (Mich.) J U N E 9th, 1890
 Secretary.

B. F. Davis, Lansing,
 Treasurer.

The Board met, pursuant to adjournment, in their office at the Capitol, at 7-30 p.m., all present but Mr. Palmer, including for the first time Col. McCreery's successor, Hon. Horace C. Spencer. *The minutes of the previous meeting were read and approved.* It was resolved that the Board accept & adopt the contract drawn up on their behalf by Secretary Reynolds with the Union Literary Society on May 14th 1890 with reference to a site for their building.

It was resolved that a department of History and Political Economy is hereby created.

It was resolved that Mr. N. D. Corbin be employed as Assistant Professor of History & Political Economy in charge of the department, at a salary at the rate of \$1000.00 per annum, to begin at the middle of the present term, with the condition that he teach rhetorical & such other topics as he & the President may agree upon so as to give him three hours of class room work daily.

It was resolved that the salary of Prof. A. B. Noble be at the rate of \$1000.00 per annum after the end of the present term.

It was resolved that at his own request Mr. H. B. Cannon be relieved from duty at the middle of the present term.

It was resolved that a plate for a diploma for the Mechanical Course of study of this College be procured.

The Board adjourned to 9 a.m. at the College.

Agricultural College, June 10th, 1890, -9 a.m.

The Board reconvened with all present except Gov. Luce.

It was resolved that the 2 north-west rooms on the 2nd floor of the Physical Laboratory are hereby assigned to Prof. Woodworth for his study & sleeping room & that he be requested to take one of the assistants as a room-mate.

It was resolved that the north-east corner of the first floor of the Horticultural Laboratory be partitioned & finished as a room to be occupied as study & sleeping room by Prof. Taft's assistants & that the use of the same as soon as finished be assigned to Mr. Anderson & Mr. Gladden; Provided, that discretion be left with President Clute & Prof. Taft to modify this arrangement if they see fit.

It was resolved that the south-east corner room of the lower floor of Howard Terrace is hereby assigned to the use of Mr. A. B. Peebles & wife in addition to the two rooms in the same suite which they now occupy.

It was resolved that the room in the east quarter of the second floor (Suite H) of Howard Terrace, now occupied by Mr. Gladden is hereby assigned to Mr. Dewey & wife, in addition to the 2 rooms in the same suite now occupied by them.

It was resolved that of the two rooms adjoining the class room of the Department of English in College Hall, the south one is hereby assigned to the Professor of English Literature & Modern Languages as an office & the north one is assigned to Prof. Noble as study & sleeping room.

It was resolved that room No. 1 of Suite C Howard Terrace (that being the east middle, 1st floor suite) be assigned to Mr. Toumey as a bed room at the close of the present term.

It was resolved that at the close of the present term one front room & one rear room of Suite B Howard Terrace (being the west middle, 1st floor suite) be at the disposal of the President of the College to assign to employees & that the remaining 4 rooms of the suite be assigned to the use of Mr. Campbell & wife.

It was resolved that room 2 in Suite E Howard Terrace (the west 2nd floor suite) now occupied by Mr. Toumey & Mr. Cannon, and room 6 in the same suite, now occupied by Prof. Simpson, be assigned to Dr. N. S. Mayo after the close of the present term.

It was resolved that rooms 3, 4 & 5 in Suite E Howard Terrace be assigned for the use of Prof. Corbin & his mother.

It was resolved that Hon. C. W. Garfield be a delegate from the Board to attend the quarter centennial, of Hope College.

It was resolved that the members of the Board be assigned by the President of the Board to work with the heads of the different departments in taking the inventory on the 30th inst.

U. S. Contract

Prof Corbin

Prof Noble

Mr Cannon

Mech. Diploma

Assignment

Rooms to
Woodworth

Anderson

Gladden

Peebles

Dewey

Noble

Toumey

Campbell

Mayo

Corbin

Hope College

Inventory

It was moved that the Superintendents of the Farm & Garden departments be authorized to employ in emergencies student labor during term time at current rates. The motion was lost.

On recommendation of the Farm Committee it was resolved that horse hay forks be provided for the horse & cattle barns and that a self binder be purchased, all at the expense of the special appropriation for the Farm Department.

It was resolved that Prof. Taft be authorized to employ such extra help as shall be needed to keep the grounds in proper shape; provided that the aggregate of such help shall not exceed the equivalent of one man for one month during this working season.

It was resolved that Prof. Taft as Horticulturist of the Experiment Station be authorized to continue the experiments already inaugurated with regard to methods of heating & green house apparatus, cooperating therein with the Society of American Florists; provided that the firms manufacturing such apparatus shall so contribute as to make the expense to the Station a merely nominal one.

President Wells announced that he had appointed Mr. H. C. Spencer to the same positions on the Standing Committees of the Board that had been filled by Col. McCreery.

It was resolved that Prof. Taft & the Secretary be authorized to purchase a horse for the Horticultural department of the Experiment Station, at not over \$125.00.

It was resolved that the bill of Dr. Kedzie for papering &c. be allowed & paid from the special appropriation for repairs.

It was resolved that hereafter no repairs be paid for except such as are previously approved by the building committee.

It was resolved that the Secretary be instructed to engage the services of an additional janitor to be under the direction of the President & Secretary.

It was resolved that the Secretary be instructed to have printed 4000 copies of the next annual catalogue.

It was resolved that the Secretary be instructed to submit to the Secretary of the Treasury of the United States the question whether the Experiment Stations may use for building purposes in their own discretion any receipts which they may have over & above the \$15000.00 received from the United States; and also whether ^{such} receipts must be wholly expended at the close of the fiscal year in order to avoid a deduction from the next year's appropriation.

The Board then took a recess for dinner after which they reconvened with all the members present except Governor Luce.

It was resolved that the repairs & alterations in the Green House ~~be carried out~~ heating apparatus be carried out under direction of Prof. Carpenter & be paid for from the special appropriation for the Greenhouse.

It was resolved that the Experiment Station steers be slaughtered as they severally ripen as judged by the professor in charge & by the Farm Committee.

It was resolved that the Secretary be instructed to write to the Adamant Plaster Co. of Grand Rapids asking what they intend to do about the ir job on the Agricultural Laboratory.

It was resolved that Prof. F. S. Kedzie be granted leave of absence during the winter vacation & next Spring term, with continuance of salary, provided that he arrange without additional expense to the College for the instruction which he would have given if present during the Spring term.

It was resolved that the Veterinary Laboratory be provided with gasoline gas by piping from the Mechanical Building gas machine; the expense to be met from the Experiment Station funds.

It was resolved that Dr. Beal be authorized to have his west hall door provided with glass panels & to have 2 rooms papered.

It was resolved that the bill of Dr. Beal for blackboard ing be paid.

Dr. Beal presented to the ~~Board~~ Board a brief manuscript setting forth some ideas with reference to a new Botanical Laboratory & as to the importance of additional herbariums. The paper was placed on file.

It was resolved that Dr. Beal be allowed to procure some cases with drawers for cards containing the permanent notes of Experiment Station work.

It was resolved that Dr. Beal be authorized to purchase 41 specimens of American woods mounted for use with the stereopticon, costing 50 cts each.

The Board then adjourned to Monday July 7th at 7-30 p.m at the Capitol.

Student Nat. of Pay

Horse Hay Forks
Binder

Extra Help

Heating Expts.

H. C. Spence
Committee

Horse

Papering

Unauthorized Repairs

Janitor

Catalogue

Expt. St. Expenses

Green H. heating

Expt. Steers

Adamant Plaster

F. S. Kedzie absence

Veterinary Gas

Repairs Dr. Beal

Bot. & Lab. Ty.

Cases Dr. Beal

Forestry pictures

State Board of Agriculture.

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Henry G. Reynolds, Agricultural College, Lansing.

Henry G. Reynolds, Agricultural College, LANSING Ingham Co., Mich. JULY 7th, 1890
Secretary.
B. F. Davis, Lansing, Treasurer.

The Board met, pursuant to adjournment, in their office at the Capitol, at 7-30 p.m.; absent, President Wells, Governor, Luce, & Mr. Garfield. Dr. Palmer was elected President pro tem.

The minutes of the meetings of June 9th & 10th were read & approved.

A communication from Prof. Carpenter announcing his election to and acceptance of the chair of Experimental Mechanics in Cornell University, was presented & placed on file.

It was resolved that Lieut. Wendell L. Simpson be tendered the position to be vacated by the resignation of Prof. R. C. Carpenter, at a salary at the rate of \$1800.00 per year from the beginning of the next College year, with the use of the dwelling now occupied by Prof. Carpenter.

It was resolved that the College pay \$25.00 toward the Commencement music.

It was resolved that the testing machine be transferred to the Mechanical Department.

It was resolved that the physical apparatus now in charge of the Mechanical Department be transferred to the Physical Department.

A communication from President Wells was read appointing Messrs Butterfield, Palmer, Garfield & Spencer, a special committee on inventory to operate with the heads of the different depts. The Board adjourned to 9 a.m. at the College.

Agricultural College, July 8th, 1890, -9 a.m.

The Board reconvened with the same members present.

On petition of the Hesperian Society, it was resolved that at the discretion of the President of the College the rooms to be vacated by the Union Literary Society may be assigned to the Hesperian Society.

It was resolved that in case of the resignation of Mr. Cordley, Mr. F. J. Niswander be promoted to the position so vacated, at a salary at the rate of \$500.00 per annum, & Mr. G. C. Davis be appointed to the position left by Mr. Niswander at a salary at the rate of \$300.00 per annum.

It was resolved that in case of the resignation of Mr. David Anderson Jr. Mr. H. J. Hall be appointed to the position so vacated at a salary at the rate of \$300.00 per annum.

It was resolved that on the resignation of Mr. Frank H. Hall, the position so vacated be tendered to Mr. Wm. J. Meyers, at a salary at the rate of \$500.00 per annum.

It was resolved that beginning with the new College year Mr. Henry Thurtell be promoted to the Assistant Professorship of Mathematics with a salary at the rate of \$800.00 per annum.

It was resolved that Prof. Davenport be authorized to floor the grain barn at the expense of the special appropriation for the Farm department.

The year for which Prof. Davenport was elected to his present position having nearly expired, it was resolved that Prof. Eugene Davenport be elected Professor of Agriculture & Superintendent of the Farm at a salary at the rate of \$1800.00 per annum & the use of the dwelling now occupied by him.

It was resolved that the resignation of Mr. H. Campbell be accepted, to date from the close of the present College year.

It was resolved that Mr. Albert Curtis be appointed from the beginning of the next College year at \$41.66 per month & the use of three rooms in Howard Terrace as Foreman of the Wood Shops & Foundry; he to have three weeks vacation in

use of three rooms in Howard Terrace, as Foreman of the wood shops & foundry, he to have 3 weeks vacation in the winter & to give the rest of his winter time to general College repairs & so much of term time as can be spared from his other duties, to the same work

The formal resignation of Prof. R. C. Carpenter, to take effect August 19th prox. was presented & accepted by the Board with warm & unanimous expressions of regret at the termination of relations so long & so pleasantly sustained.

It was resolved that the purchase of a hay rake for the Farm Department be authorized.

Carpenter resigns

Simpson elected

Music

Testing Machine

Physical Apparatus

Inventory

Hesperian Rooms

Cordley

Niswander

G. C. Davis

D. Anderson Jr.

H. J. Hall

J. H. Hall

W. J. Meyers

H. Thurtell

Barn Floor

Prof. Davenport

H. Campbell

A. Curtis

R. C. Carpenter

Hay Rake

It was resolved that until further orders, no more transfers be made from Current Account to the credit of the Contingent Building Fund.

The resignation of Prof. Edward P. Anderson was presented & accepted.

It was resolved that Prof. Howard Edwards be elected to the chair of English Literature & Modern Languages at a salary at the rate of \$1800.00 per annum & the use of the dwelling now occupied by Prof. Anderson, this appointment to date from the opening of the next College year. It was resolved that Dr. Kedzie be requested to attend as delegate from ~~xxx~~ & at the expense of our Experiment Station, the meeting of Experiment Station Chemists at Washington.

It was resolved that until the Board apportions the Experiment Station funds for the current fiscal year, the Secretary be authorized to pay bills as presented with the proper approvals on the lines of last year's apportionment.

After a recess for dinner, it was resolved that Prof. Taft be authorized to pay \$140.00 for the Experiment Station horse ordered at the last meeting.

The recommendation of the Building Committee that Mr. H. Campbell be allowed \$26.05 for improvements on the rooms occupied by him was on motion accepted & adopted & payment of that amount ordered to be made.

It was resolved that from July 1st Mr. L. A. Clinton be employed on the Experiment Station pay roll at \$25.00 per month, his services to continue at the discretion of the Director.

It was resolved to adjourn to Monday August 18th at 7.30 p.m. at the Capitol.

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Building Fund

Prof. Anderson resign

Edwards elected

Dr. Kedzie

Expt. Stn. Funds

Horse

H. Campbell bill

L. A. Clinton

State Board of Agriculture.

MEMBERS OF BOARD.

Hon. Franklin Wells, Constantine.
Hon. Chas. W. Garfield, Grand Rapids.
Hon. Oscar Palmer, Grayling.
Hon. A. C. Glidden, Paw Paw.
Hon. I. H. Butterfield, Lapeer.
Hon. Horace C. Spencer, Flint.
The Governor of the State, } Ex-Officio.
The President of the College, }

Office of the Secretary.

Agricultural College, Mich.

Henry G. Reynolds, Agricultural College, LANSING Ingham Co., (Mich.) A U G. 18th, 1890

Secretary.
B. F. Davis, Treasurer. Lansing,

The Board met, pursuant to adjournment, in their office at the Capitol, at 7-30 p.m.; absent Gov. Luce & Messrs Palmer & Spencer.

The minutes of the meetings of July 7th & 8th were read & approved.

President Clute presented a number of letters relative to the Military detail, after the reading of which it was resolved to proceed to a ballot for a nominee for that purpose. The ballot resulted in three votes for 1st Lieut Jno. J. Crittenden of the 22nd. U.S. Infantry, & two votes for 2nd Lieut. Edson A. Lewis. It was ~~resolved that the choice of Lieut. Crittenden to succeed Lieut. Simpson be made unanimous.~~ resolved that the choice of Lieut. Crittenden to succeed Lieut. Simpson be made unanimous.

It was resolved that in case of the resignation of Mr. G. L. Teller, Mr. A. B. Peebles be promoted to his position & Mr. W. L. Rossman be appointed to the position vacated by Mr. Peebles, the salaries attached to both positions to continue as heretofore.

It was resolved that Mr. G. C. Davis be granted leave of absence for two months without pay.

It was resolved that Mr. Gulley be allowed 5 rooms in Howard Terrace.

It was resolved that \$25.00 be paid from Expt. Stn. funds to the Exec. Com. of the Nat'l Assn. of Expt. Stns.

It was resolved that the degree of Master of Science be conferred upon the following named six persons, viz. - Kumaroku Shoshima of the class of '88 of the Imperial College of Agriculture of Tokio Japan, for proficiency in Entomology; Charles B. Collingwood of '88 M.A.C., now Assistant Chemist of the Arkansas Expt Stn., for proficiency in Chemistry; Wm. S. Holdsworth, of '78 M.A.C. now Asst. Prof. of Drawing, M.A.C., for proficiency in drawing; Nelson S. Mayo of '88 M.A.C., now Asst. in Veterinary experiments at the Mich. Expt. Stn., for proficiency in Veterinary Science & Surgery; Gager C. Davis of '89 M.A.C., for proficiency in Entomology and Howard E. Weed of '89 M.A.C., for proficiency in Entomology.

It was resolved that the degree of Bachelor of Science

St. Crittenden

A. B. Peebles

W. L. Rossman

G. C. Davis

Mr. Gulley

Expt. Stn. Assn.

M. S.

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B.S.

be conferred upon the following named 31 members of the class of 1890; Of the Agricultural Course 22, viz. -
Jessie Beal, Ben. K. Bentley, Warren Babcock, Jr.,
Horace E. Bunce, Horace L. Bunnell, Ruel W. Blake
Joseph Foster, Howard J. Hall, Edward G. Cooney
Geo. W. Kinsey, Robt. Bruce McPherson, George E. Hancorne,
J. H. F. Mullett, Chas. F. Rittinger, Will W. Morrison,
B. F. Simons, Jr., John W. Toan, Elmer J. Rowley,
Horace Z. Ward, Albert Latcha Waters, and John W. White; and of the Mechanical Course, 9 viz. -

Frank G. Clark, Charles E. Ferris, Joseph H. Freeman,
Harris F. Hall, Jay R. McColl, Wm. J. Meyers,
Wm. Petrie, Lewis W. Spaulding, Edward A. Stricker
The Board adjourned to 9 a.m. at the College.

Agricultural College, August 19th, 9 a.m. 1890

The Board reconvened with the same members present.

It was resolved that when we adjourn it shall be to meet in the office of the Board in the Capitol at 7-30 p.m. on Thursday September 11th.

It was resolved that Prof. Davenport be authorized with the labor of the Farm Department to make such repairs at the dam as will be necessary to protect the banks of the river.

It was resolved that the dairy experiment be temporarily suspended & that as the present experimental feeding animals are disposed of, the young steers on the College Farm shall be purchased for the Experiment Station, be fed for beef & sold at different ages to test the most profitable age for sale.

It was resolved that Mr. P. G. Holden be employed as assistant in experiments on the Farm at the rate of \$500.00 per annum & that the Farm force be lessened by one man.

It was resolved that Mr. J. N. Estabrook be requested to teach the class in book-keeping this fall term.

The Board then adjourned.

Henry G. Reynolds, Agricultural College,
Secretary.
B. F. Davis, Treasurer.

Ingham Co., Mich. Thurs. Sept. 11, 1890.

The Board met, pursuant to adjournment, in their office at the Capitol, at 7-30 p.m.; absent, Gov. Luce & Mr. Spencer. The minutes of the meeting of Aug. 18 & 19 were read & approved.

It was resolved that the salary of Mr. Gladden be raised to \$500.00 pr. year from Aug. 25, 1890.

A list of needed repairs reported by Prest. Clute, was referred to the building committee with power to act.

It was resolved that a special committee be appointed by the President to consider plans for a new Botanical laboratory. The President appointed Mr. Garfield, Dr. Palmer & Dr. Beal.

It was resolved that Dr. Beal be authorized to purchase 400 herbarium specimens, as desiderata from Alabama at \$5.00 pr. C.

It was resolved that we should be much gratified to receive from Col. Wm. B. McCreery, U.S. Consul at Valparaiso, Chili, any seeds or grains which he may be able to send us for a museum or for testing in the Expt. Station.

It was resolved that the salary of Mr. Chas. F. Wheeler be at the rate of \$900.00 per year for the year beginning Sep. 1, 1890.

It was resolved that the Secretary be instructed to transfer to Contingent Building Fund for July & August & until otherwise directed, the miscellaneous receipts which have heretofore been credited to that fund; & that Jacob Tron's bill for herbarium cases be charged to current account.

It was resolved that the steam heating of the Physical laboratory be referred to the Prest of the College with power to act.

It was resolved that Prest. Clute be authorized to have needed temporary repairs made on the walk from his house to Prof. Burand's. It was resolved that 5 series of 4 institutes each, be held the coming year.

It was resolved that the President of the Board be requested to interview the custodian of the Capitol, & secure the office of the Board from the intrusion of others than the members of the Board & their invited guests.

It was resolved that the day sessions of the October meeting be devoted to the consideration of the Experiment Station & that the Director be requested to present plans for the future at that meeting.

It was resolved that the Board respectfully & cordially presents the name of Hon. H. H. Hines of Stanton, Mich. to Prest. Palmer of the World's Columbian Fair Commission, for appointment as Grand Marshall of the World's Fair.

It was resolved to adjourn to Monday, Oct. 6, at 7-30 p.m. at the Capitol.

Dam
Dairy Exp.
P.G. Holden
Book keeping
Gladden
Repairs
Bot. Lab'y.
Herbarium
McCreery
Wheeler
Bldg. Fund
Tron
Physic Lab'y.
Institutes
Bd. Office
Exp. Sta.
Hines

State Board of Agriculture.

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MEMBERS OF BOARD.

Hon. Franklin Wells,
Hon. Chas. W. Garfield,
Hon. Oscar Palmer,
Hon. A. C. Glidden,
Hon. I. H. Butterfield,
Hon. Horace C. Spencer,
The Governor of the State,
The President of the College,

Constantine,
Grand Rapids.
Grayling.
Paw Paw.
Lapeer.
Flint.
Ex-Officio.

Office of the Secretary.

L A N S I N G

Agricultural College, Mich.

Ingham Co., Mich. Monday, Oct. 6, 1890

Henry G. Reynolds, Agricultural College,
Secretary.

B. F. Davis, Lansing,
Treasurer.

The Board met, pursuant to adjournment, on their office in the Capitol, at 7-30 p.m.; absent Prest. Wells. Dr O. Palmer was elected President pro tem. The minutes of the meeting of Sept. 11th were read & approved.

It was resolved that Secty. Reynolds see Mr. Hill in reference to having the Board room kept tidy & unoccupied by unauthorized persons.

The members of the State Live Stock Sanitary Commission were given a hearing with reference to the subject of Actinymicosis & it was resolved that the question be referred to the Director & the Committee on the Experiment Station.

It was resolved that the Director of the Station & Prof. Taft be sent as delegates to the Champaign meeting of Experiment Station workers.

It was resolved that when the Board adjourns it be to meet at the Capitol on the 17th of November.

It was resolved that the Director be requested to invite the members of the Experiment Station Council to meet with the Board at 1 P.M. tomorrow.

The Board then took a recess to 10-30 a.m. at the College

Agricultural College, Oct. 7th 1890.

The members of the Board spent the morning in committee work & at 1.30 p.m. convened in session with the members of the Experiment Station Council.

After a general conference the Board proceeded in executive session & it was resolved that the Secty. have authority to sell the old furnace pipes from the Chemical laboratory.

It was resolved that \$26.00 be allowed for a water closet in the President's house.

Mr. Glidden reported for the committee on farm management recommending the drainage of field No. 4, & of part of field No. 7; that Nos. 7 & 13 be plowed & that the lane fence be renewed.

It was resolved to accept & adopt all of the report except the part relating to fencing.

It was resolved that the old lane fences be set one side from their present position, the ground on which they now stand be plowed & leveled & new fences built a year from this coming spring

Mr. Garfield for the committee on Horticulture reported as to the view of the grounds from the north road, recommending that Prof. Taft be instructed & authorized & all others concerned requested to cooperate with him in carrying out his ideas in removing the objectionable features of this back door view of the College premises. The report was accepted & adopted.

Some further recommendations to take effect when the money from the Morrill appropriation becomes available were left

for further consideration at the next meeting.

It was resolved that Prof. Taft be authorized to have continued the system of drainage on the South Haven land to an extent not to exceed \$70.00.

The Board then took a recess, to reconvene at the Capitol at 7-30 p.m.

Lansing, Mich. Oct. 7, 1890, 7-30 p.m.

The Board reconvened with the same members present.

The resignation of Mr. Geo. L. Teller was presented & accepted to take effect Sept. 18th.

On recommendation of the Director, as chairman of the special committee to whom was referred the subject of Actinymicosis, it was resolved that the Experiment Station & the State Live Stock Sanitary Commission will cooperate in carrying on investigation of the disease known as "Lumpy Jaw" or Actinymicosis.

It was further resolved that these investigations shall be carried on under the direct supervision of the Experiment Station, & in the vicinity of Lansing; provided, that the Live Stock Sanitary Commission shall furnish all live stock necessary to the investigation, forage to the amount of \$100.00 ordinary help to the amount of \$50.00 & rent to the amount of \$50.00, as the funds of the Experiment Station have already been appropriated for the current year.

It was resolved that Dr. Grange be authorized to have the cow, Victoria College Duchesse slaughtered.

Office

Actinymicosis

Delegates

Old Iron

W. C.

Drainage

Fencing

Cleaning up

S. Haven

Teller

Lumpy Jaw

The Board reconvened pursuant to adjournment. All present including Dr. Palmer.

It was resolved that in consideration of other valuable and imperative duties on the part of Drs. Kedzie and Beal, they be relieved of the care of the northern sub-stations of Grayling etc.

It was moved that the Brink place be abandoned. The motion was lost.

It was resolved that the station at Oscoda be abandoned.

It was resolved that the management of the Walton Baldwin, and Harrison stations be left to a Committee on Experiments, and the Agriculturist.

It was resolved that the Director of the Experiment Station be authorized to cast about for a suitable person to fill the chair of Bacteriology, and to report his success, with recommendations, at a subsequent meeting of the Board.

It was resolved that F. S. Kedzie be Adjunct professor of Chemistry at \$1800. without house, and be paid wholly from Academic funds.

It was resolved that Dr. Beal be paid \$1500 from the College, and \$300 from the Experiment Station.

It was resolved that there be no successor to Mr. Dewey.

It was resolved that Mr. Wheeler be paid \$600 from the College and \$300 from the Experiment Station.

It was resolved that Mr. T. T. Lyon be continued at the South Haven Station under the arrangement of last year.

It was resolved that Dr. Grange be relieved from the Bacteriological work at the College, according to his request.

It was resolved that the experiments of Profs. Davenport and Taft be continued as heretofore under their recommendation.

It was resolved that Dr. Kedzie make investigations into the practicability of beet-sugar making for the coming year.

It was resolved further that Dr. Kedzie be requested to visit Grand Island at once, to make investigations in the practical workings of the manufacture of sugar from the beet.

It was resolved that the fees arising from the analysis of fertilizers be passed directly into the Experiment Station fund and the work of analysis be made a part of the duties of the Chemical section of the Experiment Station without extra compensation therefor, hereby repealing the resolution adopted June 14, 1886.

It was resolved that Dr. Kedzie be paid \$1700 from the College and \$300 from the Experiment Station, and that the two chemical assistants be paid \$500 and \$300, all from the Experiment Station.

The Board then adjourned to 1 P.M.

Agricultural College, Nov. 18, 1 P.M., 1890.

The Board reconvened with all the members present.

It was resolved that the proposition of the Bureau of Entomology, Washington, be accepted to the following effect:

1. That our Station engage in experiments in bee-culture as may be agreed on between the Entomologists of the Bureau and of our Experiment Station.

2. That the Bureau will furnish \$1000 to pay an apiarist to be engaged by us.

3. That the Bureau will pay \$600 to our Station for the services of Prof. Cook.

4. That the Bureau shall furnish a reasonable sum for other expenses.

It was resolved that when the above arrangement is made, Mr. G. C. Davis shall receive \$500 as assistant to the Entomologist of the Experiment Station.

It was resolved that Dalziel's salary be raised to \$30.00 per month, from and after Nov. 1st., and that Jarred's salary be raised to \$35.00 per month from and after December 1st.

It was resolved that Prof. Cook be allowed \$37.75 for expenses to a meeting of the Experiment Station Entomologists.

The following Repairs were authorized: shingling cap-penter-shop roof; shingling the portico at the North entrance of Wms. Hall; painting of portico at West entrance of Wms. Hall; painting steps of Library; painting steps West entrance of College Hall; painting and kalsomining the Chapel; painting the portico of the Mechanical Building; and repairing the Physical Laboratory.

It was resolved that Dr. Grange and Pres. Clute are hereby requested to prepare, and to present for the consideration of the Board, a course of instruction in Veterinary Medicine and Surgery.

Dr. Beal & Kedzie at sub-stations

Brink Place
Oscoda

Walton, Baldwin
and Harrison

Bacteriologist

Kedzie, As. Prof.

Dr. Beal, Salary

Dewey's success

Wheeler, salary

T. T. Lyon

Dr. Grange, Rec.

Farmer & Hunt reports

Birt sugar

Grand Island

Fert. anal.
funds

Dr. Kedzie salary
Exp. Sta.
Assistants

Bureau of Entomology

Davis, salary

Dalziel

Jarred

Cook, expenses

Building repairs

Course in Vet.

such as would fit students to receive the degree V.S. or D.V.M. such course to be as far as possible parallel with the present Agricultural course.

It was resolved that Profs. Durand, Simpson, Woodworth, and Pres. Clute are hereby requested to prepare a plan for the more complete development of the course in Mechanics, Physics, and Engineering, and report the same to the Board at its next meeting.

It was resolved that Prof. Durand be authorized to expend \$1200 for two lathes of accuracy.

It was resolved that in addition to the \$70 voted at the last meeting for the draining of the South Haven land, \$64.34 farther be allowed for the same.

It was resolved that Prof. Taft be authorized to have certain improvements made about the grounds, as authorized in letter.

Adjourned to 7 P.M. Dec. 8.

Lansing, December 8, 1890, 7 P.M.

The Board met pursuant to adjournment. Present: Pres't. Wells, Messrs. Garfield, Butterfield, Glidden, Clute, and the Secretary.

The minutes of the meetings of Nov. 17 and 18 were read and approved.

It was resolved that the Clark farm College team be sold for what they will bring, and that Prof. Davenport be authorized to purchase a new team when ready.

It was resolved that Prof. Davenport be requested to select out the mature trees on the College Farm and to sell them.

It was resolved that Prof. Davenport be authorized to purchase a pair of hobs if needed.

It was resolved that Prof. Davenport be authorized to purchase Linoleum for the Farm House.

It was resolved that 1 or 2 dailies be provided for the Farm House.

It was resolved that Dr. Kedzie be requested to procure Sugar-beet seed and without further expense have fifty 1/4 acre lots raised in different parts of the state.

It was resolved that the President and Secretary be authorized to examine as to the expense and method of illustrating the next catalogue and requested to report upon the same to the Board.

It was resolved that the desk now in the President's office be assigned to Prof. Corbin, and a new and large desk be bought from Experiment Station funds for the Director's office.

It was resolved that the Horticultural Department be authorized to purchase 40 new hot-bed sash and glaze them.

It was resolved that the Secretary be requested to send a respectful communication to Prof. Baur, and acquaint him with the fact that the Board controlling the Experiment Station think it is not wise to start any further sub-stations devoted largely to horticultural experiments.

The Board considered estimates till 10 P.M. and Adjourned to 9 A.M.

Lansing, Dec. 9, 1890, 10 A.M.

The Board reconvened. Present, the same members and the Governor.

The committee on the extension of the Engineering course was present and Dr. Durand reported for them, suggesting a development of the present Mechanical course into three courses: Civil Engineering, Mechanical Engineering, Electrical Engineering, to be parallel for the first three years and divergent in the Senior year. It would need two instructors at \$500 per year, and \$6000 apparatus for the first two years.

Dr. Grange made a statement as to the question of the Veterinary course, saying it would need one professor, one assistant, two grooms, one blacksmith one half of the time, and an infirmary for 25 horses at 30 cents per day.

The Board took a recess till 1:30 P.M.

Which Phys.
Course.

Lathes.
S. Haven drains

Campus Improvements

Clark farm team.

Sale of timber

Hobs for farm

Linoleum, F.H.

Dailies

Best seed.

Illustrating catalogue.

Desks for Corbin
& Pres

Hot bed sash.

Baur, sub-sta.

Engineering courses.

Vet. courses.

Lansing, Dec. 9, 1 P.M.

The Board reconvened without Gov. Luce.

The Board unanimously adopted a list of estimates aggregating \$52620.00 to present to the Legislature for 1891-2.

It was resolved that the purchase of the Thurber grasses not to exceed \$300 be authorized.

It was resolved that Prof. Cock, Entomologist of the Experiment Station, be permitted to engage to do certain work for the Experiment Station of the Department of Agriculture at Washington, for the sum of \$600 per year, such sum to be turned in by him to the College treasury, such engagement to be on the condition that the Department at Washington provide a skilled assistant for the Apiary at a salary of not less than \$1000 per year, and also a reasonable sum to pay other expenses.

The Board then adjourned sine die.

Lansing, Dec. 26, 1890, 7:30 P.M.

The Board met pursuant to call. Absent: Mr. Garfield. The minutes of the previous meeting were read and approved.

A letter from Hon. Geo. B. Horton, relative to the Dairymen's Annual meeting, was read. It was resolved that the committee on Institutes be authorized to arrange for the participation in the Dairymen's Association of Gov. Hoard of Wisconsin and Col. Curtis of New York.

It was resolved that the expenses of one or two men to the Grand Ledge institute be paid from the Institute fund.

It was resolved that the Prest. be authorized to send two men to the institute at Centerville.

It was resolved that Prof. Taft be granted leave of absence for three weeks after Jan. 1st.

It was resolved that Prof. Taft be allowed to put a tank on the old garden wagon and sprinkle the drives on the grounds.

It was resolved that that removal of the tank in the President's house be authorized.

It was resolved to proceed to elect a successor to Mr. Spencer. The first ballot was 5 votes for Mr. Butterfield.

The Board adjourned to 7:30 P.M. Thursday, Jan. 22 at the Capitol.

Lansing Jan. 22, 1891.

The Board met pursuant to adjournment. Present: Messrs. Garfield, Palmer, Butterfield, Chamberlain, Phelps, Clute, and the Secretary.

It was resolved that Pres't. Clute be president pro tem of the Board until further arrangement be made.

The minutes of the meeting of Dec. 26 were read and approved.

It was resolved that in case Col. Curtis can not be secured for the meeting of the Dairymen's Association, the engagement of Mr. Gilbert in his place be authorized.

It was resolved that the salary of Paul Theodore be \$10 per week while employed.

It was resolved that Dr. Durand be authorized to employ Mr. Theodore for two weeks in advance of the opening of the Spring term.

It was resolved that \$54.44 be paid for the repair of the cellar of Dr. Durand's house.

It was resolved that Prof. Cock be authorized to expend \$61.00 for beetles.

It was resolved that Dr. Beal be authorized to expend \$100 for camera lucidas and other microscope appliances.

It was resolved that the Pres't. be authorized to put additional radiators in the north and north-west rooms in the 2nd story of the Agricultural Laboratory.

It was resolved that the Director be authorized to purchase such phosphates and seeds as are needed for the Grayling sub-station.

It was resolved that a committee on legislation of two members be appointed. Mr. Chamberlain and Mr. Butterfield were appointed.

It was resolved that the Board adjourn to 9 A.M. in the Capitol.

*Appropriation estimates
Thurber grasses
Cook & W. S. Ex.
etc work.*

*Dairymen's Assoc.
Institutes.*

*Grand Ledge
Institute
Centerville Inst.*

Taft, leave of ab.

Sprinkler

Pres. House tank.

Spencer's Successor.

Pres. of Board.

Curtis & Gilbert

Paul Theodore

Dr. Durand

Repairs Dr. D's house.

Beetles

Microscopes & cameras

Radiators for Ag. Lab.

Phosphates for Grayling

Com. on legislation