

Meeting of October 19, 1907.

A special meeting of the Board of Trustees of the University of Illinois was held at Urbana, October 19, 1907, pursuant to the following notice which was sent out by the secretary, October 12, 1907.

Upon the call of the President, Mr. W. L. Abbott, there will be a special meeting of the Board of Trustees of the University of Illinois at 9:00 o'clock a. m., Saturday, October 19, 1907, at the University, to consider communications from the president and other business duly presented.

When the board met pursuant to this call, the following members were present: Messrs. Abbott, Davison, Hatch, Lehman and Mrs. Evans, Mrs. Alexander, and Mrs. Busey; absent, Governor Deneen and Messrs. Blair and Madden. A letter was received from Mr. Blair stating that owing to a previous engagement he would be unable to be present at the meeting.

President James was present.

ALEXANDER McLEAN.

President Abbott spoke of the death of Mr. McLean and appointed Mr. Hatch, Mrs. Alexander, and Dr. Davison a committee on resolutions.

A memorandum concerning Mr. McLean's connection with the board was presented by President James and referred to the committee.

The report of the committee presented later and adopted was as follows:

ALEXANDER McLEAN.

DIED AT MACOMB, ILLINOIS, OCTOBER 11, 1907.

Alexander McLean was appointed a member of the Board of Trustees of the University of Illinois by Governor Shelby M. Cullom for the term of six years beginning with the annual meeting in March, 1877.

He was appointed at the expiration of this term in 1883 for a second term of six years by Governor John M. Hamilton.

By action of the General Assembly, the members of the Board of Trustees, except the *ex-officio* members were made elective in 1887, and Mr. McLean

was one of the three members elected for a term of six years at the election in 1888, and took his seat in accordance therewith at the March meeting in 1889, at the expiration of his second term. He was re-elected in 1894, 1900, and 1906, and completed his fifth term of service with the March meeting in 1907. At the time of his death he had served for seven months on his sixth term. This term of service, thirty years and six months, is longer than that of any other one who has been a member of the board.

Immediately after becoming a member of the board, Mr. McLean was made chairman of the Building Committee and was thus in charge of the erection of the old Chemical Laboratory, now the Law Building. He continued at the head of this committee for ten years, and subsequently from time to time has been for several years one of its members.

In 1889 he was elected President of the Board of Trustees, and succeeded himself the next year, in 1890. He was also elected president in 1899, and succeeded himself in the following year, 1900.

He was chairman of the Finance Committee of the Board for the years 1893, 1894, and 1898; also from 1903 until the time of his death.

The services Mr. McLean rendered, during all these years, in this growing institution, in which there were no old precedents to guide those who were at the head, revealed a patience and energy and general excellence which won the regard of all those associated with him.

Too much credit cannot be given to his untiring watchfulness and care during more than a quarter of a century of the upbuilding of this University.

Therefore, be it Resolved, That we, the members of the Board of Trustees, in behalf of the University, deeply deplore his death, and bow to the decree of fate, yet mourn the loss of the friend and associate gone from among us.

Resolved, That the Board of Trustees tender their most sincere condolence to his sons upon his death, but ask to share with them in the inheritance of the memory of such a father.

FRED L. HATCH,
CARRIE T. ALEXANDER,
CHARLES DAVISON,
Committee.

COAL CONTRACTS, 1907-8.

The Committee on Buildings and Grounds made the following report with regard to contracts for the coal supply and hauling of the same for the year beginning September 1, 1907. The report was received for record.

URBANA, ILL., October 19, 1907.

To the Board of Trustees of the University of Illinois, Urbana, Ill.:

At the board meeting of July 6th, the Buildings and Grounds Committee was instructed to contract for a supply of coal for the University for the year beginning September 1, 1907. Pursuant to these instructions, the following advertisement was inserted in "Fuel," one of the coal papers:

PROPOSALS FOR COAL:

The Committee on Buildings and Grounds of the University of Illinois will receive sealed proposals until 12 o'clock, noon, August 15, 1907, for 15,000

tons, more or less, of Illinois coal for the University of Illinois. The coal will be of the size known as pea coal, and shall be delivered between September 1, 1907, and August 31, 1908, as needed by the University for heating, lighting, and power purposes. Bids for one-half or a third or two-thirds of the whole, more or less, will be entertained. If such fractional proposals added together will equal the amount of coal wanted, such proposals will be acceptable to the University, and separate contracts will be made with the several companies for the amount of their proposals. Quality, price, and ability to fulfill the contract will be considered in awarding the contracts. A bond to the amount of one-fourth of the contract will be required of the successful bidder or bidders conditioned on the faithful performance of the contract.

Bids will be received (a) for coal delivered on track at Urbana or Champaign and (b) for coal delivered in the University Boiler House.

The University reserves the privilege of buying, outside of this contract, up to 1,000 tons of coal for experimental purposes.

The right is reserved to reject any and all proposals.

Proposals are to be sent to W. L. Abbott, Room 63, 139 Adams street, Chicago, and shall be sealed in an inner envelope marked "Proposals for coal for the University of Illinois."

Further information may be obtained from W. L. Abbott, at the above address, or James M. White, 300 Engineering Hall, Urbana.

WILLIAM L. ABBOTT,

Chairman of Committee.

August 15th the committee met at No. 139 Adams street, Chicago, and opened the bids which had been received in response to the advertisement. They were as follows:

Crear, Clinch & Co., 1½ in. Franklin Co. screenings delivered in Champaign	\$1.50
Danville Consumers Coal Co., 1¼ in. Danville screenings delivered in University Boiler House	1.45
Sage & Co., 1¼ in. Linton Screenings delivered in Urbana.....	1.60
Christian Co. Coal Co., 1¼ in. Taylorville screenings delivered in Urbana	1.22

Also a bid was received from Pearl Adams for hauling coal from railroad team tracks to the boiler room for the following prices:

First—From cars of the Wabash or Big Four at Station in the City of Urbana at the rate of 17c per ton.

Second—From cars of the Wabash or Big Four at Station in the City of Champaign at the rate of 19c per ton.

Third—From the cars of the Illinois Central at Station in Champaign City at the rate of 18c per ton.

The committee deferred further consideration of these bids until August 21.

August 21st the committee met and decided to award the coal contract to the Christian County Coal Company, and September 2d a contract was closed with this company to furnish coal to the University for the year beginning September 2, 1907.

This contract with bond for \$5,000.00 conditioned upon a fulfillment of the contract, also bearing date September 2d, has been duly signed and filed with the secretary.

A contract also has been made with Pearl Adams to haul the coal, and the contract with bond of \$1,000 has been duly signed and filed with the secretary.

Respectfully submitted,

W. L. ABBOTT,

Chairman.

APPROPRIATIONS FOR STATE ENTOMOLOGIST'S OFFICE.

The secretary presented the following communication from Attorney General Stead with regard to the responsibility of the Board of Trustees in handling the appropriations made for the State Entomologist's office. (See minutes of meeting of September 10, 1907, p. 380.)

STATE OF ILLINOIS, OFFICE OF ATTORNEY GENERAL.

SPRINGFIELD, ILL., September 25, 1907.

Mr. W. L. Pillsbury, Secretary University of Illinois, Urbana, Illinois,

DEAR SIR—I have your letter of September 23, in which you state that section 4 of the Act making the appropriations for the office of the State Entomologist, passed by the last session of the General Assembly, page 50 Session Laws of 1907, placed the custody of the appropriations for the State Entomologist in the Board of Trustees of the University of Illinois. You further state that under the charter of the University money can be drawn from its treasurer only upon the order of the Board of Trustees, signed by the president and secretary. Heretofore, the Board of Trustees of the University has had no relation whatever with the State Entomologist. You ask the opinion of this office as to whether this putting the money into the custody of the Board of Trustees of the University of Illinois imposes upon the board any powers or duties with regard to the State Entomologist and his operations.

Section 4 of said act is as follows:

"The Auditor of Public Accounts is hereby authorized and directed to draw his warrant on the State Treasurer for the sum herein appropriated, upon the order of the chairman of the Board of Trustees of the University of Illinois, countersigned by its secretary, and with the corporate seal of said University, and no installment subsequent to the first shall be paid by the treasurer, nor warrant drawn therefor, until detailed accounts showing expenditures of the preceding installments have been filed with the Auditor of Public Accounts."

The other portions of the Act specify the duties of the State Entomologist and outline his work. Section 2 of the Act provides that the work outlined in the Act shall be carried out on lines agreed upon by the State Entomologist and an advisory committee, to consist of the Directors of the Agricultural Experiment Station, two members to be appointed by the Illinois Farmers' Institute, and two members to be appointed by the Illinois State Horticultural Society.

It will be noted that said section 4 does not expressly confer upon the Board of Trustees of the University of Illinois any powers of supervision over the work or operations of the State Entomologist. Inasmuch as the act itself defines the duties and lays down the work of the State Entomologist, and to some extent provides for an advisory board to supervise his work, any inference that the Board of Trustees of the University is made a board of supervision over the work and operations of the State Entomologist by said section 4 is precluded.

I am therefore of the opinion that said section 4 does not confer upon the Board of Trustees of the University the authority to supervise the work and operations of the State Entomologist.

Very respectfully,

W. H. STEAD,
Attorney General.

MATTERS SUBMITTED BY PRESIDENT JAMES.

The president submitted the following matters for consideration:

1. A request from Dean Davenport that a change be made in the plan approved by the board for the construction of a special fire proof vault for the use of the agronomy department, suggesting that experience had shown during the summer that it would perhaps be a better plan to turn over the large vault in the office of the Agricultural College for the use of the agronomy department and build a smaller one on the other side of the room for office use, using some of the funds that would be saved in this way for the division of the main office into smaller rooms.

Voted on motion of Mrs. Evans that the communication be referred to the Committee on Agriculture with power to act.

MOVING STREET RAILWAY POLES ON GREEN STREET.

2. A request from the Urbana and Champaign Street Railway Company to move the iron trolley poles located along the street railway track across the campus of the University along the line of Green street extended one foot further back from the track in order to avoid accidents.

Voted on motion of Mrs. Busey that said request be granted but that the changes be carried out under the direction of the supervising architect of the University and in such a way as not to injure the University property in any manner, and in accordance with plans submitted by the street car company and approved by the supervising architect of the University.

USE OF AUDITORIUM BY CHRISTIAN ENDEAVOR SOCIETY.

3. A request from the Christian Endeavor Society for the use of the Auditorium July 9, 1908.

Voted that the president of the University be requested to present a recommendation as to the proper policy of the University in regard to the use of the Auditorium and other University buildings for such purposes.

VETERINARY COLLEGE.

4. A statement that the people interested in the establishment of a veterinary college by the University of Illinois in the City of Chicago desire to know whether the University will be willing to undertake the establishment and conduct of a veterinary college on the terms already suggested, namely a suitable site within the grounds of the Union Stock Yards, fronting on Halsted street and running south from Forty-second for a distance of two hundred and fifty feet, together with the sum of two hundred and fifty thousand dollars (\$250,000.00) for the erection and equipment of buildings.

Voted on motion of Mr. Lehman that the Board of Trustees will undertake to establish and conduct such a college on the terms mentioned as far as special appropriations may be made by the Legislature for this purpose.

5. A request from Dr. Charles S. Bacon of the Medical School that the President of the University participate in the organization of a society in Chicago to aid the University Maternity Hospital.

Voted on motion of Dr. Davison that the president may take such steps in this matter as seem to him wise.

PURCHASE OF BAND INSTRUMENTS.

6. A communication from Dr. Burrill recommending that the University purchase instruments for the use of the University band and submitting a preliminary estimate as to the cost of said instruments.

Voted on motion of Dr. Davison that an appropriation not to exceed three thousand five hundred dollars (\$3,500) be made for the purchase of such instruments, which shall be purchased under the supervision of a committee of the board appointed by the president of the board for that purpose. These members were appointed as the committee: Dr. Davison, Mrs. Alexander, Mr. Lehman, Mrs. Busey, and Mr. Hatch.

For the consideration of a matter presented at this time the board went into Committee of the Whole.

When the Committee of the Whole rose, Secretary Pillsbury reported that the committee had organized by the election of Mr. Abbott as chairman and Mr. Pillsbury as secretary. The secretary reported that the committee had made progress in the discussion of the subject under consideration, and that it asked for further time.

The report was accepted and further time given.

USE OF AUDITORIUM.

7. A statement of the president that he had given permission to Mr. Harding to give a Kubelik concert in the Auditorium on the evening of November 28th on condition that the management would make a popular low price for seats for the advantage of the student body of the University, and that in return for this concession no charge would be made for the use of the hall.

The president desired the board to adopt a formal rule in regard to the policy of the University in such matters.

Voted that the president be requested to propose a recommendation on this subject.

WATER SURVEY BUDGET.

8. A statement from Edward Bartow, Director of the State Water Survey, concerning the estimate of expense for the State Water Survey for the year ending June 30, 1908.

URBANA, ILL., September 26, 1907.

Professor E. J. Townsend, Dean College of Science, University of Illinois:

DEAR SIR—I hereby submit a statement concerning the water survey for the coming year. Since I have had no reply to my letter of May 15th, asking for additional assistance from the University funds I have made my estimates accordingly. There was available July 1st

Balance Water Survey receipts	\$ 834 63
Appropriation	6,000 00
Allotment from the State Board of Health.....	1,000 00

Total	\$7,834 63
-------------	------------

Estimated expenses July 1, 1907, to July 1, 1908:

SALARIES.

Director	\$2,417 66
Chemist (Lewis I. Birdsall)	720 00
Student Asst. (P. J. Hanzlik)	300 00
Clerical Work (Lulu Gardner)	435 00
Clerical Work (Opal Lockwood)	330 00

Labor in Laboratory (Robert Myers)	300 00
Equipment	200 00
Printing	300 00
Express	200 00
Traveling Expenses	200 00
Postage	150 00
Miscellaneous	103 34

Total	\$6,055 00
Acting Bacteriologist (C. K. Calvert)	300 00
Acting Bacteriologist (S. E. Target).....	375 00
Student Asst. (Frank Bachmann)	375 00

Total	1,050 00
Funds available for summer assistance and extras during the biennium	729 63

Total\$7,834 63

In explanation of the above will say that Mr. Birdsall has already been appointed by the trustees. That Messrs. Calvert and Target are registered as students in the University and will devote part of their time to the work in water bacteriology, and will be appointed acting bacteriologists to the State Board of Health. Their salary will be paid from the State Board of Health funds.

Mr. Hanzlik will carry on mineral water work, and Mr. Bachmann will assist in the sanitary chemical work. I am forwarding information blanks giving the training of these student assistants.

I would respectfully request that Mr. L. I. Birdsall be given the additional title of Assistant in Chemistry. Owing to the increased number of students taking water analysis, it will be necessary for me to ask him to devote a part of his time to instructional work.

Following is a summary of the instructional work to be given in water analysis during the coming year:

	Hours.	Students.
Chemistry 10a Sanitary Water Analysis	2	8
Chemistry 10b Sanitary Water Analysis for engineers.....	2½	7
Chemistry 11 Thesis in College.....	...	1
Chemistry 107 Research for graduates.....	...	1

In addition to this Mr. Birdsall has registered in Chemistry 107 and Messrs. Calvert and Hanzlik, in Chemistry 11, and Messrs. Target and Bachmann will do special work, which Professor Parr suggests, to be called Course 10c.

Respectfully submitted,

EDWARD BARTOW,
Director, State Water Survey.

Voted on motion of Mrs. Alexander that the proposed budget for the Water Survey for the year ending June 30, 1908, be approved.

FINANCIAL REPORTS BY STUDENTS' ORGANIZATIONS.

9. A recommendation from the Council of Administration that in the future all managers of student organizations shall be required to submit to the council through its auditing committee a sworn statement of their receipts and expenditures, and that the notary connected with the office of the Registrar be authorized to take the affidavits of such managers without expense to the student organizations concerned.

Voted that said recommendation be approved.

APPOINTMENTS.

10. A list of appointments made by the president of the University in accordance with the authority given him by the board, since the last meeting of the board.

Edward Berbaum, Assistant in the Machine Shop Tool Room, for the twelve months beginning September 1, 1907, at a salary of \$30 a month.

Frank L. Busey, M. E., First Assistant in the Department of Mechanical Engineering in the Engineering Experiment Station, the appointment to date from October 1, 1907, to July 1, 1908, at a salary of \$90.00 a month.

Mabel E. Condé, stenographer, assigned to work in the office of the Director of the Library School, half time, beginning September 20, 1907, at a salary of \$25.00 a month.

Mary E. Cooley, Clerk in the Mechanical Engineering Department, beginning November 1, 1907, at a salary of \$60.00 a month.

Neva E. Dolson, Stenographer in Professor Parr's office, beginning September 19, 1907, at a salary of \$40.00 a month.

A. D. Emmett, Research Assistant in Animal Chemistry in the Laboratory of Physiological Chemistry, for ten months beginning October 1, 1907, at a salary of \$100.00 a month, to be charged to the funds of the Agricultural Experiment Station.

Earl D. Finch, Stenographer to the Dean of the College of Law, beginning September 11, 1907, at a salary of \$15.00 a month.

V. R. Fleming, Instructor in Applied Mechanics, for the ten months beginning September 1, 1907, at a salary of \$110.00 a month.

Edward J. Fortier, Associate in French, for the two years beginning September 1, 1907, at a salary of \$1,500.00 a year.

G. C. Habermeyer, Instructor in Municipal and Sanitary Engineering, for the ten months beginning September 1, 1907, at a salary of \$130.00 a month.

P. E. Howe, Assistant Analyst in the Laboratory of Physiological Chemistry, for eleven months beginning October 1, 1907, at a salary of \$75.00 a month, salary to be paid from the Nutrition Investigation fund.

L. V. James, Assistant in the Electrical Laboratory, for the ten months beginning September 1, 1907, at a salary of \$50.00 a month.

Dr. Lily G. Kollock, Dean of Women, work and salary beginning September 1, 1907. The salary is at the rate of \$1,500.00 a year.

Agnes McGurty, Stenographer, assigned for work in Dean Townsend's office, beginning September 1, 1907, at a salary of \$50.00 a month.

H. H. Mitchell, Assistant Analyst in the Laboratory of Physiological Chemistry, for eleven months beginning October 1, 1907, at a salary of \$75.00 a month, salary to be paid from the Nutrition Investigation Fund.

H. C. Moran, Clerk of the Moot Court in the Law School, beginning October 21, 1907, at a salary of \$15.00 a month.

J. B. Peterson, Assistant Analyst in the Laboratory of Physiological Chemistry, for eleven months beginning October 1, 1907, at a salary of \$75.00 a month, salary to be paid from the Nutrition Investigation Fund.

Blanche Phillips, stenographer, assigned for work in Professor Hollister's office, beginning September 1, 1907, at a salary of \$55.00 a month.

F. W. Reed, Instructor in Astronomy, for the ten months beginning September 1, 1907, at a salary of \$100.00 a month.

Mayme L. Smith, stenographer, assigned for work in Professor Noyes' office, beginning September 1, 1907, at a salary of \$50.00 a month.

Lida E. Voigt, clerk and stenographer in the office of the Dean of the Graduate School, at the rate of \$55.00 a month, her salary to be charged to the appropriation of \$960.00 made for stenographic and clerical help in Dean Kinley's office.

E. H. Waldo, Assistant Professor of Electrical Engineering, for the academic year beginning September 1, 1907, at a salary of \$1,700.00.

R. T. Stull, Instructor in Ceramics, for the ten months beginning September 1, 1907, at a salary of \$140.00 a month.

It has been found necessary to make certain readjustments in the list of library employes owing to the resignation of three or four people and the transfer of certain persons from one position to another. I beg to call attention to the following changes in the salary list:

Elizabeth Forrest has been appointed reference assistant for ten months at \$60.00 a month, or total \$600.00.

I have appointed Helen V. Calhoun order assistant in place of Fanny R. Jackson, resigned, for a period of twelve months at a salary of \$65.00 a month, total \$780.00.

I have appointed Edith L. Spray loan desk assistant in place of Josie B. Houchens, transferred, for the period of twelve months at \$60.00 a month, total \$720.00. Miss Houchens I have appointed general assistant in place of Sabra L. Nason, with no change in salary.

The position to which Miss Forrest was appointed was authorized at the board meeting on July 6th, and Miss Derby was first appointed to that position, but subsequently resigned. At the same meeting a shelf assistant in library for twelve months at \$480.00 was authorized. It has been found desirable to divide this amount between two assistants on half time. I have, therefore, appointed Elmer A. Leslie as shelf assistant on half time for twelve months at \$20.00 a month, or total \$240.00, and Lea M. Western shelf assistant on half time for twelve months at the same remuneration.

I report here for record the scholarships and fellowships which have been granted in the Graduate School:

Elizabeth Ruth Bennett, \$250.00 scholarship in Mathematics.
 Lloyd Slote Dancy, \$250.00 scholarship in Physics.
 Anna Edith Day, \$250.00 scholarship in Classics.
 Rosa Sophia Drew, \$250.00 scholarship in Botany.
 Ethel Clara Forbes, \$250.00 scholarship in Modern Languages.
 Bruce Magill Harrison, \$250.00 scholarship in Zoology.
 Carl Henninger, \$250.00 scholarship in Modern Languages.
 Mabel C. Johnson, \$250.00 scholarship in Modern Languages.
 Seldon Gale Lowrie, \$250.00 scholarship in Political Science.
 Blaine F. Moore, \$250.00 scholarship in Political Science.
 Harry Cleveland Morrison, \$250.00 scholarship in Mathematics.
 Mary E. H. Owen, \$250.00 scholarship in Modern Languages.
 Luther Ewing Petty, \$250.00 scholarship in Mathematics.
 Adaline M. Shoop, \$250.00 scholarship in Latin.
 Carl John Strand, \$250.00 scholarship in History.
 Isabel M. Wait, \$250.00 scholarship in Modern Languages.
 Paul E. Werckshagen, \$250.00 scholarship in German.
 May Allison, \$300.00 fellowship in History.
 Howard Gray Bronson, \$400.00 fellowship in Economics.
 Clarence Edwin Carter, \$500.00 fellowship in History.
 Alfred Wilhelm Homberger, \$300.00 fellowship in Chemistry.
 Emma Gertrude Jaek, \$300.00 fellowship in German.
 Adeline M. Jenney, \$300.00 fellowship in English.
 M. A. Lane, \$500.00 fellowship in Physiology.
 Katherine A. W. Layton, \$500.00 fellowship in German.
 Ernest Shaw Reynolds, \$300.00 fellowship in Botany.
 Millicent Stebbins, \$300.00 fellowship in German.
 Edward Beattie Stephenson, \$300.00 fellowship in Physics.

NUTRITION INVESTIGATIONS.

11. Report from Professor Grindley regarding the present status of the investigations connected with the Nutrition Club and the plan of the nutrition experiments as revised by Grindley, Hawk, and MacNeal:

LABORATORY OF PHYSIOLOGICAL CHEMISTRY.

October 17, 1907.

President Edmund J. James, University of Illinois:

MY DEAR PRESIDENT JAMES—I hereby wish to make the following report regarding the present status of the investigations connected with the Nutrition Club. The two houses which were rented for the purposes of these experiments have been neatly and cheaply furnished in a sanitary manner. The houses have been fairly well fitted up for the purposes of the club. In connection with the club we have a matron and a good chef. The routine work of keeping the houses clean and in running condition and the work connected with the kitchen and the serving of meals is done almost exclusively by students of the University; who are deserving and in part working their way through the University.

The club of twenty-four University students has been completely formed, and the experiment has been launched in a manner which promises much for the future. At present the twenty-four men are all rooming in the houses. They are also being fed upon the diet which was determined upon and selected by the Commission. The men selected for the work vary in age from 19 to 31 years. They average in weight 141 pounds. The students are distributed between the classes as follows: Four seniors, five juniors, eleven sophomores and four freshmen. They were given a fairly rigid medical examination by the methods approved by the Commission and outlined in detail in another communication which I am submitting herewith. I am convinced that by the aid of Doctors MacNeal, Chapin, and Rutherford, a very desirable group of young men has been selected, considered from the standpoint of studentship, intelligence and physical condition. All of the men apparently are earnest in their endeavors to carry out the work which we have in hand, and most of them, if not all of them, are interested in the industry. We have had no trouble in getting our full quota of men. We have had eighty-five volunteer applications for the club. We have given the medical examination to forty-three men and from these we have selected the twenty-four men which now form the club. The men who were given the medical examination and not accepted were in one way or another subject to chronic irregularities which would probably interfere with their being subjects continuously for a period of ten months as desired for the purpose of our experiments. The men are given their rooms and board for acting as subjects. They receive no further compensation except the training and discipline which they necessarily get as a result of being connected with the undertaking. All of the foods supplied each individual of the club will be accurately weighed and carefully and very completely analyzed. All of the excreta of each member of the organization will be collected and weighed and exhaustively examined chemically, microscopically, and bacteriologically.

The details of the various lines of work connected with the investigation which has been thoroughly planned are proving on application to work well. The scientific data which result from such a large undertaking are accumulating at present rapidly, and it is quite apparent that our investigations will yield results of unusual importance and of far reaching significance in this field of scientific investigation. The laboratories which are used in connection with this work, namely, the chemical, bacteriological, physiological, and medical, have been somewhat improved and added to at the expense of the University for this special work. They now are quite well fitted for our purposes.

The investigation is an unusually large undertaking. It differs from all similar investigations mainly in five points. In the first place, a much larger group of men is taken for the study than has ever been taken before in such work. In the second place, the experiment is to continue for a much greater length of time than any previous experiment of this nature. In the third place, a more thorough and extensive study is to be made upon the foods used, upon the excretory products and upon the subjects of the experiment than has yet been made. In the fourth place, the men are served their food under conditions entirely similar to those used in everyday life. Such has

not been the case in previous experiments of this kind. In the fifth place, the medical examination is much more complete and thorough than it has been in previous experiments.

The best way to give an idea of the extent of the undertaking is to say that there is at present a force of thirty people not including the twenty-four members of the club, working in connection with the research. Their investigation has now progressed far enough to demonstrate clearly that it can be brought in every respect to a successful termination. That being true, the investigation will probably necessitate that all future experiments of the character of this which we are doing at the University of Illinois will have to be done upon as broad and as rational a basis if they are to be given due credit and received with confidence. Further, the successful termination of our present investigation will undoubtedly, it seems to me, necessitate that experiments done previously to this one will have to be repeated upon a basis at least as rational as that being carried out here at present in order that the results of the earlier work may be duly verified.

Yours very truly,

H. S. GRINDLEY.

RAILWAY TEST CAR OPERATION.

12. A communication from Dean White as to the operation of the railway test car upon the lines of the Illinois Traction System:

URBANA, ILL., October 8, 1907.

President E. J. James, University of Illinois:

DEAR SIR—Dean White has asked me to give you a statement of the facts concerning the refusal of the Illinois Traction System officials to continue to operate our electric test car.

Tuesday, October 1st, Mr. Wenger went to Danville to try to arrange for a series of tests. He applied for this purpose, as usual, to Mr. Connor, Superintendent of Transportation, who informed him that he had had from Mr. Johnson, General Superintendent, orders not to operate the car.

Mr. Johnson was then interviewed and explained that he had received from the General Manager, Mr. Fischer, a letter which stated simply that the test car was no longer to be operated, no reasons for the order being stated. This order was issued to Mr. Connor about September 23d.

After consultation with Dean White, I sent Mr. Fischer a letter, a copy of which is attached. His reply was received this morning and is enclosed.

EDWARD C. SCHMIDT,

Associate Professor of Railway Engineering

URBANA, ILL., October 4, 1907.

Mr. L. E. Fischer, Gen. Man. Illinois Traction System, Danville, Ill.:

DEAR SIR—Upon applying Tuesday to Mr. Johnson and Mr. Connor for permission to begin operating our electric test car for the instructional work of the year, we learned that orders have been issued that the car be not now allowed upon the road.

May I ask whether this order applies only temporarily, and, if so, when and under what circumstances we may again be permitted to have the car operated?

If the order is to apply permanently I should be glad to know whether anything in the conduct of these tests hitherto has so inconvenienced you as to make the change necessary. If this is the case I am confident that we could remedy such conditions.

Very truly yours,

EDWARD C. SCHMIDT,

Associate Professor of Railway Engineering

(File E. C. S. 520).

DANVILLE, ILL., October 7, 1907.

Prof. Edward C. Schmidt, Associate Professor of Railway Engineering, Urbana, Illinois:

MY DEAR SIR—Referring to your letter of October 4, your File E. C. S. 520: I suggest that the matter of moving the test car over our rails be taken up regularly with us by your Board of Trustees. We will be very glad to consider any request they may have to make.

Very truly yours,

[Signed] L. E. FISCHER,
General Manager.

VISITORS IN CLASSES.

13. A recommendation from the Council of Administration that the following rule be adopted with reference to attendance upon University classes by persons not regularly registered as students.

Permission to attend classes regularly as listeners only, may be given to persons who are not registered in the University, on the following conditions:

1. They must first secure the consent of the instructors concerned and of the dean of the college in which the courses are given.

2. They must pay a semester fee of \$7.50 for each course attended.

3. No instructor shall admit any such listener to any of his classes except on presentation of a written certificate showing that he has complied with the above conditions. This certificate, when properly signed, shall be filed with the dean of the college.

It is understood that this privilege is to be extended only so far as may be consistent with the interests of regular University work and may be withdrawn at any time, after due notice, when, in the judgment of the University authorities, the presence of such listeners would be detrimental.

Voted that the said recommendation be approved.

SCHOOL OF PHARMACY.

14. A letter from Professor Goodman in regard to new quarters for the School of Pharmacy.

Voted on motion of Mrs. Alexander to refer the same to the Committee on the School of Pharmacy with a request for a report.

INVESTIGATION OF DAIRY MATTERS IN OTHER COUNTRIES.

15. A communication from Dean Davenport indorsing a recommendation from Professor Fraser in regard to sending Mr. C. C. Hayden to make a study of dairy matters.

COLLEGE OF AGRICULTURE, October 15, 1907.

President E. J. James, University of Illinois:

DEAR MR. PRESIDENT—I am in receipt of the enclosed communication from Professor Fraser, head of the department of Dairy Husbandry.

This is the first request from the head of one of our departments for permission to dispatch a man to make systematic investigation of the agricultural conditions in other and competing countries.

I most heartily endorse Professor Fraser's recommendation. We need this information, and we should secure it at first hand by a competent man. It will, of course, cost some money to send Mr. Hayden to these places, but I believe it is one of the most rapid and certain means of advancing these interests. It is understood that this trip would be in the interest of experiment station work and not college work.

Hoping that our recommendation may meet your judgment and that of

Respectfully yours,
E. DAVENPORT.

COLLEGE OF AGRICULTURE,
URBANA, ILL., October 11, 1907.

Dean E. Davenport, College of Agriculture, University of Illinois:

DEAR DEAN DAVENPORT—Owing to the advance in land valuation and the increased interest in the dairy industry, it is of the utmost importance that we learn how to produce the maximum amount of milk per acre. In order to make the demonstration already begun on the University twenty-acre dairy farm of still greater value, comparative data should be obtained from those countries where the most intensive dairying is practiced. In Denmark, Holland, The Channel Islands, and parts of Scotland, dairying is carried on almost exclusively and made profitable on land valued at from \$400.00 to \$1,000.00 an acre. From these countries much can be learned along the line of economic milk production that will be beneficial to dairy operations throughout the country. I would suggest that the coming summer Mr. Hayden be sent over to visit these countries for the purpose of investigating economic milk production and securing data that will assist us in this problem here.

Mr. Hayden has had much experience in dairying and is scientific, careful and conscientious. During the entire four years that he has been connected with the University he has availed himself of only two months' vacation.

If definite action could be taken upon this matter soon, much time and expense might be saved by formulating plans for the investigation through correspondence.

Very truly yours,

W. J. FRASER.

Voted on motion of Mrs. Evans that said recommendation be referred to the Committee on Agriculture with a request for a report.

THESES; INSTRUCTORS OF GRADUATE COURSES.

16. Two recommendations from the executive faculty of the Graduate School:

1. Candidates for the doctor's degree must print their thesis and deposit one hundred copies of the printed thesis with the Dean of the Graduate School, for deposit in the library, not later than five o'clock of the first Monday in June. If the thesis is not printed and deposited by the time above named, the candidate must deposit, at that time, with the comptroller a bond acceptable to the comptroller and the Dean of the Graduate School, for the cost of printing his thesis.

2. No one who has not received a higher degree, or has by his publication shown his qualification for the work, may take charge of the major work of candidates for an advanced degree without permission of the executive faculty of the Graduate School, and the approval of the president.

Voted that said recommendation be approved.

ASSIGNMENTS OF FUNDS.

17. A request from the comptroller that the balance of the sums appropriated by the Legislature for specific purposes be now assigned by the board to said purposes, and that the balance of sums already appropriated by the board for salaries from these specific appropriations but which may not be used during the present year owing to the fact that the positions may not be filled, be appropriated for the same purposes.

Voted that said appropriation be made.

CHEMICAL LABORATORY.

18. A request from the Director of the Chemical Laboratory that four thousand dollars be appropriated to the Department of Chemistry for the present academic year, in addition to the ten thousand dollars already as-

signed from the special legislative appropriation for the support of the chemical laboratory and the eight thousand dollars estimated as the income from the laboratory fees. The appropriation for salaries will show a balance of about this amount, owing to our inability to make recommendations of candidates for certain positions.

Voted on motion of Mr. Lehman that said appropriation be made.

WOMAN'S HALL.

On the recommendation of the Committee on Students' Welfare and on the motion of Mrs. Alexander, one thousand dollars was appropriated for Woman's Hall, to be expended under the supervision of the Committee on Students' Welfare.

STUDENTS' FEES AND REPORTS OF THEM.

Mr. Pillsbury presented two matters with regard to the registrar's office, especially concerning students' fees and reports of the same to the board. He was directed to take up these matters with the Committee on Finance in order that a report might be made to the board at its next meeting.

The board adjourned.

W. L. PILLSBURY,
Secretary.

W. L. ABBOTT,
President.