MEETING OF FEBRUARY 8, 1916.

A special meeting of the Board of Trustees of the University of Illinois was held at the Blackstone Hotel, in the city of Chicago, at 12 o'clock noon, on Tuesday, February 8, 1916, pursuant to the following notice which was sent out by the Secretary on January 31, 1916:

On 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 the Blackstone Hotel in Chicago, on Tuesday, February 8, 1916, at 12 o'clock noon, to consider such matters as the committees of the board and the President of the University may submit, and such other matters as may be duly presented.

When the board convened, the following members were present: President Abbott, Mr. Carr, Mrs. Evans, Mrs. Henrotin, Mr. Hoit, Mr. Small, Miss Watson

President James was present; also Prof. J. M. White, Supervising Architect, and, during a part of the afternoon, Dr. T. W. Brophy, Dean of the Chicago College of Dental Surgery.

MINUTES APPROVED.

The Secretary presented the minutes of the meetings of the Executive Committee held on October 30, 1915, and January 11, 1916, and of the meetings of the board held on December 14, 1915, and January 11, 1916. On motion of Mrs. Henrotin, the minutes were approved and received for record as printed on pages 858 to 882, inclusive.

MATTERS SUBMITTED BY THE PRESIDENT OF THE UNIVERSITY.

The board proceeded to the consideration of the following matters submitted by President James:

CHICAGO COLLEGE OF DENTAL SURGERY.

(1) A request from the Dean of the Chicago College of Dental Surgery for information concerning the terms on which a union of this college with the University might be effected.

Dr. Brophy, the Dean of the College, who was present, made a statement concerning the College and retired.

On motion of Mrs. Henrotin, this matter was referred to the President of the board, the President of the University, and the Committee on the College of Medicine for investigation and report.

MILITARY TRAINING IN LAND GRANT COLLEGES.

(2) A draft of a proposed address before the Committee on Military Affairs of the House of Representatives of the United States, concerning the development of military training at the land-grant colleges.

On motion of Mr. Small, the President of the University was authorized to present this address in the name of the board.

LEAVE OF ABSENCE FOR PROF. S. P. SHERMAN.

(3) A request from Prof. S. P. Sherman, of the Department of English, approved by Dean K. C. Babcock, for leave of absence on half pay for the academic year 1916-17, for the purpose of continuing his studies and completing certain literary work.

On motion of Miss Watson, the President of the University was authorized to grant this request, provided satisfactory arrangements are made for Prof. Sherman's work during his absence.

LEAVE OF ABSENCE FOR PROF. A. S. PEASE,

(4) A request from Prof. A. S. Pease, of the Department of the Classics, approved by Dean K. C. Babcock, for leave of absence on half pay for the academic year 1916-17, for the purpose of continuing his studies and completing certain literary work.

On motion of Mrs. Henrotin, the President of the University was authorized to grant this request, provided satisfactory arrangements are made for Prof. Pease's work during his absence.

READJUSTMENT OF PROF. BAGLEY'S WORK.

(5) A request from Prof. W. C. Bagley, Director of the School of Education, for a readjustment of his work and salary during the second semester of the present academic year, similar to the arrangement which was made last year, whereby he may be released from the undergraduate work and some of the routine details of the office, but may continue as head of the Department of Education, directing its policy and carrying on his regular work with graduate students; and in view of this readjustment relinquish half of his salary for the second semester of the present academic year, amounting to \$1,375.

On motion of Mr. Carr, authority was given to the President of the University to make such a readjustment.

TESTS OF CAR WHEELS.

(6) A letter from Dean W. F. M. Goss, enclosing a proposal from the Association of Manufacturers of Chilled Car Wheels to cooperate with the Engineering Experiment Station in the study of the proper design of such wheels; and also a letter from George W. Lyndon, President of the Association, appropring the plan: January 22, 1916.

President Edmund J. James, University of Illinois.

President Edmund J. James, University of Illinois.

MY DEAR PRESIDENT JAMES: Progress in the art of railroading is continually developing new questions affecting the weight and the contour of chilled iron car wheels. Changing methods in manufacture also operate to affect the strength of such wheels. The importance of securing proper design and proper methods of manufacture for such wheels may be judged by the fact that there are now in operation in this country approximately twenty million freight-car wheels, and that the demand for renewals alone involves the manufacture of not less than two and one-half million wheels a year.

With these facts in mind, the Association of Manufacturers of Chilled Car Wheels, as represented by Mr. George W. Lyndon, President and Treasurer, has agreed to cooperate with the Engineering Experiment Station in a study of questions fundamental to the proper design of such wheels. To this end the association has set apart a considerable sum of money for the use of the Engineering Experiment Station under the following conditions:

1. That the Engineering Experiment Station will undertake an investigation concerning the stresses and behavior of chilled iron car wheels under prescribed conditions, the details of the work to be determined by the Station in conference with the Association's Consulting Engineer, Mr. F. K. Vial.

That all results secured from such an investigation shall be the property of the Experiment Station. They may be published as Station bulletins or otherwise, as from time to time may be determined by the Director. Prior to any publication, however, the intention of the Director shall be formally communicated to the Association of Manufacturers of Chilled Car Wheels in order that said association may at all times be open to the inspection of the representatives of the Association of Manufacturers of Chilled Car Wheels, who may be assumed to act in an advisory capacity to the Station.

3. That the funds of the Association of Manufacturers of Chilled Car Wheels

shall at all times be open to the inspection of the representatives of the Association of Manufacturers of Chilled Car Wheels, who may be assumed to act in an advisory capacity to the Station.

3. That the funds of the Association of Manufacturers of Chilled Car Wheels are to be drawn on for all costs of labor and supplies arising from the proposed investigation. If equipment is required in excess of that already available to the Station, it will be provided at the expense of the association. The Station will supply the time of members of its staff for the direction of the work, and the use of such facilities as it may already possess.

4. That on the approval of these proposals the Association of Manufacturers of Chilled Car Wheels will at once transmit to the business office of the University the sum of \$500 as an initial deposit, and each month thereafter will transmit such sum or sums as may be called for by estimate of the costs of the investigation for the month next succeeding. Funds thus supplied are to constitute a credit on which the Director of the Engineering Experiment Station may from time to time draw to cover the costs of the proposed work. It will be the purpose to maintain, during the lifetime of this agreement, a balance in this account entirely sufficient to meet all charges that will need to be made against it.

5. That this arrangement will continue in effect until cancelled through the definite action of one or both of the parties in interest.

The Association of Manufacturers of Chilled Car Wheels has been influenced in making its proposal through its appreciation of the contributions already made by the Engineering Experiment Station in the field of railway equipment. Work already done by our Department of Railway Engineering and by our Department of Theoretical and Applied Mechanics constitutes the foundation for that which is now proposed. Prof. Talbot and Prof. Schmidt are already in touch with the problem, and its fuller development will be under their general direction. The coopera

January 26, 1916.

Dean W. F. M. Goss, University of Illinois.

My Dean Dean Goss: I have received and have very carefully studied the draft of your letter to your President, Mr. Edmund Janes James, under date of January 22, and am pleased to advise that the arrangement as contained therein

January 22, and am pleased to advise that the arrangement as contained therein is entirely satisfactory.

Permit me to assure you of our hearty cooperation, and in passing may I say that I am strongly of the belief that the results will justify the work involved and prove of mutual benefit to your University, our association, and the public at large.

I am very glad indeed to enclose you herewith the check of the association for \$500 for the purpose of preliminary expenses, in compliance with paragraph four of the agreement referred to.

Very sincerely yours,

Geo. W. Lyndon, President.

GEO. W. LYNDON, President.

On motion of Mr. Carr, this plan of cooperation was approved and the President of the University was authorized to make such provisions as may be necessary to carry it out.

REMOVAL OF FRAME HOUSES ON PHARMACY LOT.

(7) A request for permission to make certain repairs on the building belonging to the University at 713 South Wood Street in Chicago.

On motion of Mrs. Henrotin, in view of the fact that the three small houses on the lots recently purchased for the School of Pharmacy are in bad state to repair and it would cost more to repair them than it would be worth, the Supervising Architect was instructed to remove the buildings from the lots either by selling the houses as they are, for purposes of removal, or by wrecking them, as may seem best, as soon as present leases permit.

TESTS OF ILLINOIS COALS.

(8) A letter from the Dean of the College of Engineering concerning a proposed arrangement for cooperation between Mr. A. T. Hert of Louisville, Ky., as represented by Mr. E. B. Fulks of Chicago, and the Engineering Experiment Station, for the purpose of investigating the behavior of Illinois coal under certain predetermined conditions.

January 18, 1916.

President Edmund J. James, University of Illinois.

My Dear President James, University of Illinois.

My Dear President James, University of Illinois.

My Dear President James: Under date of October 13, 1915, I submitted a progress report concerning a proposed cooperative arrangement which was then under consideration by the Engineering Experiment Station and certain outside interests. (See Minutes of the Board of Trustees for October 14, 1915, page 364.)

I am now able to present a full statement to the proposal, which is as follows:
For several years the Engineering Experiment Station, through the activities of Prof. S. W. Parr, has concerned itself with the behavior of Illinois coal under predetermined conditions. The coking of coal at low temperatures and the properties of the by-products resulting from coking are matters which have been subjects of extensive experimental study. These investigations have been in the nature of pioneer work, and the results have attracted wide attention among coal operators and the representatives of by-product industries.

Prof. Parr's experiments thus far have dealt with comparatively small quantities of materials, and accepting the limitations which have thus been imposed, his work has reached a conclusion. He has, however, been anxious to continue his investigations by the use of apparatus sufficiently extensive to permit determinations on a commercial basis, but it has not seemed practicable for the Engineering Experiment Station to supply the funds necessary for such a process.

In view of these facts, it is with the greatest satisfaction I announce the completion of a cooperative arrangement, whereby the funds necessary for a continuance of Prof. Parr's work are to be supplied.

Mr. A. T. Hert of Louisville, as represented by Mr. E. B. Fulks of Chicago, has agreed to act as the cooperating agency. The purpose is to install at the University a plant of sufficient size to permit the attainment of desired results, and to operate the plant thus installed in a series of exp

possess.

4. That Mr. Hert will at once cause to be transmitted to the business office of the University the sum of \$500 as an initial deposit, and each month thereafter

will cause to be transmitted such sum or sums as may be called for by estimates of the cost of the investigation for the month next succeeding. Funds thus supplied are to constitute a credit on which the Director of the Engineering Experiment Station may from time to time draw to cover the costs of the proposed work. It will be the purpose to maintain during the lifetime of this agreement a balance in this account of approximately \$500. Reports of expenditures and of the condition of the account will be made to Mr. Hert from time to time.

5. That this agreement is to continue in effect until cancelled through the definite action of one or both of the parties in interest.

This statement as formulated has the approval of Prof. Parr and has been accepted by Mr. E. B. Fulks, acting for Mr. A. T. Hert, as will appear from the accompanying letter.

I hope that you also will approve the arrangement.

I hope that you also will approve the arrangement.
I have the honor to be,
Very truly yours,

W. F. M. Goss. January 21, 1916.

Professor W. F. M. Goss, Dean of the College of Engineering.

My Dear Professor Goss: I am in receipt of your letter of January 18 en-MY DEAR PROFESSOR GOSS: I am in receipt of your fetter of January 18 enclosing a copy of a draft of a letter which you propose sending to President James, outlining the plan of our proposed experimental work.

This outline meets entirely with my approval, since it describes exactly what we agreed on during our recent visit with you.

I am advised that already a check for \$500 as first payment has been sent to the

University through Prof. Parr. Very truly yours,

E. B. Fulks, Vice President.

On motion of Mr. Carr, this plan of cooperation was approved and the President of the University was authorized to make such arrangements as may be necessary to carry out the plan.

CIVIL SERVICE EXAMINATIONS.

(9) A letter from the Dean of the College of Agriculture protesting against the extent to which the State Civil Service Commission is calling on members of the Agricultural College staff to prepare papers for civil service examinations and to correct the papers of candidates written in answer to those questions.

No action was taken in this matter.

FIELD EXPENSES IN AGRONOMY.

(10) A letter from the Dean of the College of Agriculture transmitting one from Dr. Cyril G. Hopkins describing the method of determining the personal expenses of field parties engaged in the soil survey.

January 13, 1916.

President E. J. James, University of Illinois.

President E. J. James, University of Illinois.

My Dear Mr. President: I am sending for information and record in the President's office the enclosed communication from Dr. Hopkins, head of the Agronomy Department. He states briefly the outcome of a general conference held in my office on the subject of personal expenses of field parties, and while it was the general opinion of the conference that no change in practise should be recommended, yet it seemed to me extremely important that a record should be made of the fact that the whole matter has been seriously canvassed and of the reasons for continuing the present practise. From what I know of the matter I am convinced that this present practise is, all things considered, the cheapest and the best, though I feel it is important that there should be on record in our administrative offices sufficient statements to show that, the matter has been seriously considered and that we have not drifted into loose methods of doing business.

We maintain the general principle that every man employed by the University must have a headquarters somewhere, and kept up at his own expense. In the case of men who are continuously in the field, they maintain such headquarters at outside points such as Carbondale, Dixon, etc. Men on the soil survey represent a peculiar class, being a part of the time at the University and a part of the time away. You will see by Dr. Hopkins' statement that in practise they find it necessary to maintain some kind of headquarters here continuously, and while they doubtless profit financially by having their expenses paid while in the field, it is also true that these expenses are very moderate, can easily be checked up between parties, and if we should require them to pay these expenses themselves as if they were here we should then create an injustice unless we correspondingly raised their salary. All things considered, therefore, it seems best to continue the present practise, which is both economical, comfortable, and safe, being careful to place

E. DAVENPORT. January 10, 1916.

Doctor Eugene Davenport, Director Agricultural Experiment Station.

DEAR DEAN DAYENPORT: In accordance with our recent conversation, following a conference attended by most of the men holding the more responsible positions in the Agronomy Department, at which you were able to be present only part of the time, I am writing you in order to furnish you more complete information in regard to the expenses of our field men, especially in connection with the soil

As is the general custom of the University, the traveling and living expenses of our soil survey men have been paid, except when they are located at the University during the winter season. The fact that the soil survey men have been obliged to move frequently, holding their headquarters, as a rule, at, one place only from a few days to perhaps two or three weeks, has rendered any other procedure apparently out of consideration. Even when they have maintained headquarters at one place for three or four weeks or possibly longer, they have often found it necessary to stay over night occasionally at other points in order to avoid driving too great distances.

Two conditions have arisen which I think should be called to your attention, although I doubt if they should modify our practise, unless there should seem to be some administrative reason for so doing.

First, we have found that it is more economical and entirely feasible to substitute automobiles almost entirely for horse livery. This is in part owing to the increasing cost and difficulty of securing horse livery, in part to the decreasing efficiency of the horse liveries which we are able to secure, and, in part, to the reduced cost for the purchase and maintenance of automobiles. In many places the taxi or automobile livery has almost entirely replaced the horse liveries not only in the larger cities but even in the country towns. For the field season of 1914 we made considerable use of automobile liveries, which were hired in place of horse liveries, and, in the beginning of our field work in 1915, we purchased two Ford touring cars, the final net cost of which was \$460 each. These proved so satisfactory that later in the season we purchased three additional cars at the same price so that all of our five soil survey parties have been provided with Ford cars. Even if we allow \$200 depreciation on each machine during the season, the expense of livery was reduced from about \$2,550 to \$1,585, thus making a saving of nearly a thousand dollars. Probably the exp

insere livery, even the othey are able to work a larger area without moving head-quarters. Even the frequent moving of headquarters from one place to another involves considerable loss of time.

With the use of automobiles we now maintain headquarters at one point sometimes for three months or more, and this might suggest that we should modify our practise and expect the men to pay their own living expenses while so long located at one point. I find, however, that it is a regular custom for all of our more responsible soil survey men to maintain a home in Champaign or Urbana. Even the unmarted men find it necessary to rent a row throut the year in order to had base to leave their personal effects which they cannot take with them on the unmarted men they are allegan to keep the truly furivery to reach the some process more or less at different times during the summer season but sometimes when they are callegan to keep to that University for each the some or less at different times during the summer season but sometimes may work from April 1 to September, others from June to December 1, and still others during the entire field season. I should like to emphasize the fact that our field parties seem to strive conscientiously to keep their living expenses at the minimum, consistent with living in decent and cleanly places, having wholesome food, which is necessary not only to enable them to do the work but also to preserve good health. As a general average, the living expenses amount to \$9 a week per man. This includes lodging and board, but it does not include laundry, an item which we have never included in such expenses. I find that the corresponding living expenses for single men employed at the University is about \$7 a week, so that, counting the average full field season, the annual financial saving to the men in the field is about \$150 in comparison with those employed continuously at the University. In other words, on this basis, the field men should be able to the men in the field should also the work in th

be arranged that the entire party of four men boards with the wife of one of them, and this may be altogether the most satisfactory arrangement which it is possible to make and highly approved by every man in the party. Under such conditions they can arrange to have their breakfasts as early as they desire in the morning, and, if they return later than usual after the day's work, they still find supper waiting for them, which is not always the case at public eating houses in small towns. It may be kept in mind that we have four or five soil survey parties that work in different parts of the State, and of course comparisons are always possible in regard to the expenses of these different parties. It is safe to say that such arrangements for light housekeeping by the young married men tend to increase efficiency with no increase in expense.

We have considered a number of other possible methods of handling the fin-

We have considered a number of other possible methods of handling the finances in connection with the expenses of the soil survey men, but we are convinced that no other method would prove so satisfactory or so economical. In all cases, the head man of the soil survey party is made responsible for all expenses incurred, which we believe tends towards both efficiency and harmony because it concentrates authority and responsibility upon the most experienced and mature men of the

party.
Unless there is some administrative objection, we shall continue to follow the general plan as outlined above.

Very truly yours,

CYRIL G. HOPKINS.

This report was received for record.

FEES FOR GRADUATE WORK IN MEDICINE.

(11) A statement that unless the board should direct otherwise, the fees for the graduate work in medicine in Chicago during the summer session should be fixed at the same rate as in other departments of the Graduate School.

No action was taken in this matter.

TESTS OF RAILWAY FUELS.

(12) A letter from the Dean of the College of Engineering concerning a proposed cooperation between the Engineering Experiment Station and the International Railway Fuel Association:

February 1, 1916. President Edmund J. James, University of Illinois.

President Edmund J. James, University of Illinois.

MY DEAR PRESIDENT JAMES: The Department of Railway Engineering under the direction of Prof. E. C. Schmidt has proposed to utilize its Locomotive Laboratory in a research to determine the relative values of different grades of Illinois coal when used in locomotive service. I believe that the proposed research is an important one, and I have already approved the proposal as an activity which may properly be undertaken under the auspices of the Engineering Experiment Station. The International Railway Fuel Association as represented by its Executive Committee and by its Secretary, Mr. C. G. Hall, in conference with Prof. Schmidt, has agreed to cooperate with him in the work which he has proposed. A formal statement of their proposal is set forth in a letter transmitted to Prof. Schmidt by the secretary of the association, Mr. C. G. Hall, under date of January 19, 1916, which is as follows:

"Referring to your letter January 14.

"Referring to your letter January 14, "At a meeting of our Executive Committee at Hotel Sherman, Monday, January 17, a resolution was passed instructing the Secretary to write you to the effect that the International Railway Fuel Association wishes to cooperate with the Engineering Experiment Station of the University of Illinois in carrying out an investigation of the relative value of various grades of coal from the same mine investigation of the relative value of various grades of coal from the same mine

investigation of the relative value of various grades of coal from the same mine for locomotive service.

"It was further resolved that in expectation that the University of Illinois shall make this part of its research work, same to be extensive and thoro, the International Railway Fuel Association will continue in the future to cooperate with the University so far as it may be possible in carrying on this work.

"That it is the intention of the International Railway Fuel Association at this time to contribute or provide

(a) \$1,450 already subscribed;

(b) A locomotive;

(c) Such additional funds as may be procured or appropriated by the association:

ciation ciation;
(d) As many observers up to the number of seven as may be procured from various railways in order that the program already laid down by our committee in charge of fuel tests may be proceeded with immediately.
"Our executive committee has authorized the secretary to say that the coal for the immediate tests will be drawn from one of the coal districts of the State

of Illinois.

"We trust that the University will consider this proposition favorably and I will be pleased to have you write me outlining the manner in which the University will cooperate with us in this work."

Cooperate with us in this work."

You will note that this proposal on the part of the International Railway Fuel Association is to aid the University in pushing more rapidly than it could otherwise do, an investigation, the general character of which has already been deemed suitable as an Engineering Experiment Station activity, and to place the investigation on a higher plane than the University unaided could do, by supplying a locomotive especially suited to the purposes of the research.

The Engineering Experiment Station reserves all its rights. The results obtained will be the property of the Station and will be available for publication as Station bulletins or otherwise, as may from time to time be determined. The

Engineering Experiment Station will, however, aid the association in the preparation for its proceedings of such a report of the cooperative work as may be mutually agreed to by Prof. Schmidt and Secretary Hall.

On the receipt of assurances that these several proposals are satisfactory, the International Railway Fuel Association will make available for the purpose of the proposed work such funds as it now has in hand and such other funds as it may hereafter collect for this purpose. These funds will be handled through the business office of the University, subject to the usual procedure of that office.

The delegation of observers from several railways in Chicago to aid in this work in the Locomotive Laboratory is a matter that will be arranged directly by Prof. Schmidt in conference with the secretary of the association.

I recommend that this cooperative arrangement be approved.

I have the honor to be,

Very truly yours.

Very truly yours,

W. F. M. Goss.

On motion of Mr. Hoit, this plan was approved.

RESIGNATION OF PROF. L. A. HARDING.

(13) A statement that the resignation of Prof. L. A. Harding, Professor of Experimental Mechanical Engineering, had been accepted, to be effective February 7, 1916. Prof. Harding found that certain outside interests demanded his attention to such an extent that he felt it would be unfair to attempt to carry on his University work and give them attention also.

This statement was received for record.

SMITH MUSIC BUILDING.

(14) A letter from Capt. Thomas J. Smith concerning the erection of the building for the School of Music, and requesting an opportunity to meet with the board on the occasion of their next meeting in Urbana.

It was voted that Capt. Smith be invited to meet with the board at the annual meeting in Urbana (March 14, 1916).

POWER TO SELL OR MORTGAGE SMITH LANDS.

(15) An opinion by the Legal Counsel of the University as to the power of the University to sell or mortgage the land given by Capt. Thomas J. Smith for the purpose of securing the erection of a building to house the musical interests of the University:

January 29, 1916.

President Edmund J. James, University of Illinois.

DEAR PRESIDENT JAMES: In reply to your request concerning the disposition of the lands conveyed by Capt. Smith to the Board of Trustees, I am pleased to report

POWER TO SELL.

There is no doubt about the power of the Board of Trustees to sell this land and devote the proceeds to the purposes contemplated by the grant of Capt. Smith. It would have no power to sell the land and divert the proceeds to some other purpose without first having used an appropriation from money obtained from some other sources for the erection of a Music Building. The power to convey the land now and use the proceeds for that purpose, or to use the money from some other fund in the erection of a Music Building and then sell the lands for the purpose of reimbursing that fund may be exercised without first obtaining authority from the Legislature from the Legislature. POWER TO MORTGAGE.

POWER TO MORTGAGE.

The clause contained in the first section of the organic act, that "The Board of Trustees of the Illinois Industrial University shall be a body corporate and politic, and by that name and style shall have perpetual succession, have power to contract and be contracted with, to sue and be sued, to plead and be impleaded, to acquire, hold, and convey real and personal property" is sufficiently broad in my opinion to authorize the Trustees to mortgage the lands obtained from Capt. Smith, provided the purpose of making the mortgage is to raise funds out of which to erect the Music Building. The resolution authorizing the mortgage to be made should specifically declare that the purpose is to use the money borrowed toward the erection of the Music Building, and to avoid any danger of future complications. I should advise that the fund, when obtained, be kept distinct from other funds, and checked out only as the building is being constructed. I think, too, it would be wise to have the resolution prefaced by a "Whereas," reciting the fact that Capt. Smith has made conveyance as a gift, etc.

Respectfully submitted,

O. A. Harker, Legal Counsel.

O. A. HARKER, Legal Counsel.

This statement was received for record.

LEAVE OF ABSENCE FOR MR. J. S. TOMLINSON.

(16) A request from Mr. J. S. Tomlinson, Cashier in the College of Medicine, for leave of absence for one year, without salary. Mr. Tomlinson has found it necessary to go south for his health. The Civil Service Commission has agreed to permit the Trustees to grant this leave of absence.

On motion of Miss Watson, this leave of absence was granted.

COLLEGE PLACE LOTS.

(17) A letter from Miss Fanny B. Sherfy, of Champaign, asking for information concerning the possible purchase of lots in College Place by the University.

This land is bounded on the west by First Street, on the north by Armory Avenue, and on the east by Fourth Street. Miss Sherfy states that various rumors about the possible utilization of these lots by the University make it difficult to sell the

No action was taken in this matter.

ORDERS FOR BOOKS FOR THE LIBRARY.

(18) A request from Mr. P. L. Windsor, Director of the University Library, for authority to place orders immediately for the purchase of books for the University Library to be delivered after July 1, 1916, at a cost of not more than sixteen thousand dollars, the amount to be charged against the book appropriation for the fiscal year 1916-17, and that similar authority be given for the purchase of books for the Library of the College of Medicine at a cost of not more than one thousand dollars, this amount to be charged against the medical appropriation for the fiscal year 1916-17. This is a request similar to one approved by the board during 1914 and also in 1915. It is necessary to give these orders now if we hope to have the books on hand for use next year.

On motion of Mrs. Evans, this request was granted. The vote was as Ayes, Mr. Abbott, Mr. Carr, Mrs. Evans, Mrs. Henrotin, Mr. Hoit, Mr. Small, Miss Watson; noes, none; absent, Mr. Blair, Mrs. Busey, Mr. Dunne, Mr. Trevett, Mr. Ward.

BUILDING PROGRAM AND POLICY.

BUILDING PROGRAM AND POLICY.

(19) A statement calling attention to the fact that if the proposed changes in the building for the School of Education should be carried out, it would mean that the board would spend much more in the construction of this building than it had been planning to do, and that inasmuch as our funds are strictly limited this would mean that certain very necessary additional building schemes would have to be postponed. It is very desirable, indeed necessary, that the Natural History Building be completed at the earliest possible date so as to provide proper accommodations for the Department of Botany and the other departments in the building which are steadily increasing. It is also necessary to make certain important changes in the engineering plant amounting altogether to upwards of one hundred thousand dollars, and it is difficult to see where these funds are coming from if we undertake to expend such a large additional sum on the School of Education during the present blennium or the next blennium.

The pressing items in the College of Engineering Building budget are:

(a) Reconstruction and rearrangement of the equipment of the Mechanical Engineering Laboratory at an estimated cost of \$30,000.

(b) A temporary building for an Industrial Museum during the present year and the coming year in addition to those we have already received and for which we must provide some housing. It will cost \$10,000 or more to meet this need.

(c) The completion of the Transportation Building at an estimated cost of \$33,000.

(d) An extension of the Mining Engineering Laboratory by the construction of an additional wing at an estimated cost of \$15,000.

The pressure for additional space in our Department of Architecture is very great and this can only be satisfied by making the additions suggested above so as to take care of the Mechanical Engineering and other departments by certain comprehensive readdistinants of space. comprehensive readjustments of space.

No action was taken in this matter.

REPAIRS ON PHARMACY BUILDINGS.

(20) A recommendation that the sum of fifteen thousand dollars be appropriated for the necessary repairs to the buildings recently purchased at the corner of South Wood and Flournoy Streets in Chicago, to make them available for use by the School of Pharmacy.

On motion of Mrs. Evans, this appropriation was made. The vote was as follows: Ayes, Mr. Abbott, Mr. Carr, Mrs. Evans, Mrs. Henrotin, Mr. Hoit, Mr. Small, Miss Watson; noes, none; absent, Mr. Blair, Mrs. Busey, Mr. Dunne, Mr. Trevett, Mr. Ward.

DOCUMENTS PERTAINING TO THE PHARMACY LOTS.

(21) A list of documents filed with the Secretary of the board pertaining to the lots recently purchased in Chicago at the corner of South Wood and Flournoy Streets:

Streets:

"List of Documents pertaining to Lots in Chicago Purchased for School of Pharmacy, University of Illinois, December, 1915.

P1—Deed: Adam Prehler to the Board of Trustees of the University of Illinois, for lots 9, 10, and 11 in Carpenter's resubdivision of the west half of block 5 in Hadduck's subdivision into blocks 4, 5, and 17 of that part of the east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian set off to said Hadduck in partition of said tract by order of Superior Court of Chicago, July 7, 1859, in Cook County, Illinois.—Dated December 27, 1915. No. 5778849; book 13716; page 169.

P2—WARRANTY DEED: Chicago Title and Trust Company, as receiver of Chicago Hoemopathic Hospital, to the Board of Trustees of the University of Illinois, for lots 12, 13, and the south one and three-twelfths feet of lot 14 in the resubdifor lots.

for lots 12, 13, and the south one and three-twelfths feet of lot 14 in the resubdi-

vision of the west half of block 5, in the assessor's division of the east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian, in Cook County, Illinois.—Dated December 30, 1915. No. 5781561; book 13671; page 323.

P 3—SPECIAL WARRANTY DEED: William O. and Josephine Green to the Board of Trustees of the University of Illinois, for lots 14, 15, and 16, in Carpenter's resubdivision of the west half of block 5 in assessor's division of the east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian.—Dated December 30, 1915. No. 5781703; book 13671; page 328.

P 38—MASTER'S DEED: Wirt E. Humphrey, Master in Chancery of the Superior Court of Cook County, to William O. Green, for lots numbered 14, 15, and 16 in Carpenter's resubdivision of the west half of block number 5 in assessor's division of the east half of the southeast quarter of section No. 18, township No. 39 north, range 14 east of the Third Principal Meridian, together with the rents, issues, and profits thereof, and all buildings and improvements on said premises or on any part thereof.—Dated December 24, 1915. No. 5781702; book 13569; page 357.

P 4—TITLE GUARANTEE POLICY No. 348470. From the Chicago Title and Trust Company to the Board of Trustees of the University of Illinois, for lots 9 to 16 inclusive in Carpenter's resubdivision of the west half of block 5 in Hadduck's subdivision into blocks 4, 5, and 17 of that part of the east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian, set off to said Hadduck in partition of said tract by order of Superior Court of Chicago, July 7, 1859, in Cook County, Illinois.—Dated January 5, 1916, —amount \$\$5,000.

P 5—ABSTRACT OF TITLE to lots 14, 15, and 16 in Carpenter's resubdivision of

Meridian, set off to said Hadduck in partition of said tract by order of Superior Court of Chicago, July 7, 1859, in Cook County, Illinois.—Dated January 5, 1916,—amount \$35,000.

P 5—ABSTRACT OF TITLE to lots 14, 15, and 16 in Carpenter's resubdivision of the west half of block 5 in the assessor's division in section 18/39/14, Cook County, Illinois.—Dated (last entry) September 13, 1913.

P 6—WARRANTY DEED: Albert D. and May B. Gibbs to Adam Prehler, for lots 9 and 10 in the resubdivision of the west half of block 5 of the assessor's division of the east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian.—Dated March 11, 1905.

P 7—WARRANTY DEED: Melanie Nifnecker and Emil Nifnecker to Adam Prehler, for lot 11 in Carpenter's resubdivision of the west half of block 5 in Hadduck's subdivision into blocks 4, 5, and 17 of that part of east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian, set off to said Hadduck in partition of said tract by order of Superior Court of Chicago, July 7, 1859, in Cook County, Illinois.—Dated November 24, 1905.

P 8—DEED of TRUST: Chicago Homeopathic Hospital to Samuel J. Lumbard. Lots numbered 12 and 13 and the south 1 3/12 feet of lot 14 in Carpenter's resubdivision of the west half of the block 5 in the assessor's division of the east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian, situated in the county of Cook, in the State of Illinois.—Amount of encumbrance named, \$6,500; accompanied by four notes for \$500 each and one note for \$4,500.—Dated March 26, 1908; released by deed, December 30, 1915.

P 2 1 2 2 4—Tuppe Notes each for \$500. and one note for \$4,500, Chicago 1915.

and one note for \$4,500.—Dated March 26, 1908; released by deed, December 30, 1915.

P 8a 1, 2, 3, 4—Three Notes, each for \$500, and one note for \$4,500, Chicago Homeopathic Hospital to its own order at the office of Samuel J. Lumbard. Dated March 26, 1908. Terms 2, 3, and 4 years respectively for the \$500 notes, and 5 years for the \$4,500 note. Interest at 6 per cent. Each note cancelled and marked "Paid, December 30, 1915."

P 9—Deed of Trust: Chicago Homeopathic Hospital to Jeanette Lacy. Lots 12 and 13 and the south 1 3/12 feet of lot 14 in Carpenter's resubdivision of the west half of block 5 in the assessor's division of the east half of the southeast quarter of section 18, township 39 north, range 14 east of the Third Principal Meridian, subject, however, to a trust deed dated March 26, 1908, and recorded March 30, 1908, as document no. 4879468 to Samuel J. Lumbard to secure an indebtedness of \$6,500.—Dated April 13, 1911; amount \$6,500; accompanied by thirteen promissory notes each for \$500 and one note for \$100, all enumerated in the deed; term, 7 years, with interest at 3 per cent payable annually and 3 per cent after maturity. Perforated "Canceled."

P 9a 1-14 (incl.)—Thirteten Notes each for \$500 and one for \$100 as enumerated in Document P 9 above. Each perforated "Canceled."

P 10 a, b. c—Receipts, water supply, lots 713, 717, 719 South Wood Street, semi-annual period May 1, 1915, to November 1, 1915; net amounts \$2.63, \$3.94, and \$5.63 (less .37) each perforated "Paid."

P 11 a, b, c—BILLS from McKey & Poague for purchase of 701-705, 709-711, and 713-717-719 South Wood Street respectively, being the properties deeded in Documents P 1, P 2, and P 3. Dated January 11, 1916; amounts \$16,280, \$9,251.25, and \$10,407.66 respectively.

P 12 a, b, c—Lettpers from McKey & Poague and copy of affidavits of President Abbott concerning the exemption of above properties from taxation. Affidavits endorsed with receipt, January 17, 1916, by M. K. Sheridan, Secretary."

SUMMER SESSION SALARY BUDGET.

(22) The salary budget for the Summer Session of 1916, carrying with it an assignment of twenty-three thousand two hundred and twenty-five dollars:

Department and name.

Agriculture.	
Nolan, Aretas W., Assistant Professor	\$ 300 00
Burlison, William L., Associate Professor	200 00
Ekblaw, Karl J. T., Associate	225 00
Colby, Arthur S., Assistant	200 00
Bull, Sleeter, Associate	125 00

Department and name.		
Gusler, Gilbert, Associate Roberts, Elmer, Instructor	$^{\$125}_{75}$	00 00
Total	\$1,250	00
Art and Design. Lake, Edward J., Assistant Professor	300	00
Total	\$300	00
Botany. Stevens, Frank L., Professor. Beach, Walter S., Assistant.	500 150	
Total	\$650	
Chamietry	1	
Balke, Clarence W., Professor. Derick, Clarence G., Assistant Professor. Beal, George D., Associate. Hopkins, B. S., Associate. Lewis, Howard B., Associate. Sears, George W., Instructor. Hecker, Charles H., Instructor. Johnson, Laurence C., Instructor. Engle, E. W., Instructor. Rowland, Floyd E., Assistant.	500 350 250 250 225 225 225 200 100	00 00 00 00 00 00
Total		00
Classics. Oldfather, William A., Professor	400 300	
Total	\$700	00
Economics. Litman, Simon, Assistant Professor. Thompson, Charles M., Associate. Scovill, Hiram T., Instructor. Stewart, Charles L., Instructor.	300 300 225 225	00
Total	\$1,050	00
Education. Johnston, Charles H., Professor. Whipple, Guy M., Professor. Hoke, Kremer J.	500 500 500 400	00 00 00
Hoke, Kremer J. Miller, Wilford S., Assistant Rhoton, A. L.	$\begin{array}{c} 225 \\ 100 \\ 275 \end{array}$	00
Total	\$2,500	00
English. Upham, Alfred H., Professor Paul, Harry G., Assistant Professor Jones, Harry S. V., Assistant Professor Woolbert, Charles H., Associate Boyer, Clarence V., Associate Hillebrand, Harold N., Instructor Tieje, Ralph E., Instructor Sutcliffe, Emerson G., Assistant	500 300 300 250 250 225 112 112	00 00 00 00 50
Total	\$2,050	00
Entomology.	450	00
Total	\$450	00
French. Carnahan, David H., Associate Professor. Moore, Olin H., Associate. Carry, Charles S., Assistant.	$\begin{array}{c} 100 \\ 250 \\ 150 \end{array}$	00
Total	\$500	00
German. Bloomfield, Leonard, Assistant Professor. Gillet, Joseph E., Associate. Green, Alexander, Instructor. Puckett, Hugh W., Instructor. Kline, Earl K., Instructor.	300 250 225 225 225	00 00 00
Total	\$1,225	00

Hatery, Anderson, Frank M., Professor (see Political Science)	Department and name.		
Household Science. 250 00 Hope, Leona 225 00 Hope, Leona 225 00 Total 3700 00 Total 3700 00 Manual Training. 250 00 Park, Joseph C. Director Industrial Education, Oswego State Normal School, Oswego, N. Y. 250 00 Total 3800 00 Total	History. Anderson, Frank M., Professor (see Political Science) Laprade, William T., Professor Cole, Arthur C., Associate	350	00
Mackinnon, Jean 255 0 0 Plope, Leona 225 0 0 Ploming, Georgia 3700 0 0 0 Ploming, Georgia 3700 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Household Science.	\$900	00
Manual Training. 400 00 Park, Joseph C., Director Industrial Education, Oswego State Normal School, Oswego, N. Y 400 00 Griffin, Fred 250 00 Duncan, James M., Assistant 150 00 Total \$800 00 Mathematics. 500 00 Townsend, Edgar J., Professor. 250 00 Chittenden, Edward W., Instructor 250 00 Chittenden, Edward W., Instructor 250 00 Frary, Hobart D., Assistant 150 00 Mechanics, Theoretical and Applied. 250 00 Ensign, Newton B., Associate 250 00 Valiance, Alex, Instructor 225 00 Total \$725 00 Music. 500 00 Brb, John L., Director, School of Music 500 00 Total \$650 00 Huff, George A. 300 00 Gill, Harry L. 300 00 Gill, Harry L. 300 00 Gill, Harry L. 300 00 Gorge A. 300 00 Mauthe, O. C. Director of Physical Education, Stout Institute, Menomonie, Wis. 300 00 Fargo, Roy N., Director Men's Gymnasium	MacKinnon, Jean Hope, Leona Fleming, Georgia	$\begin{array}{c} 250 \\ 225 \\ 225 \end{array}$	$\begin{array}{c} 00 \\ 00 \\ 00 \end{array}$
Park, Joseph C., Director Industrial Education, Oswego State Normal School, Oswego, N. Y. Griffin, Fred 255 00 Duncan, James M., Assistant 150 00		\$700	00
Mathematics. Townsend, Edgar J., Professor. 500 00 Crathorne, Arthur R. Associate. 250 00 Crathorne, Arthur R. Associate. 500 00 Crathorne, Arthur R. Associate. 250 00 Crathorne, Arthur R. Associate. 250 00 Crathorne, Associate.	Park, Joseph C., Director Industrial Education, Oswego State Normal School, Oswego, N. Y. Griffin, Fred Duncan, James M., Assistant	250	00
Townsend, Edgar J., Professor. 500 00		\$800	00
Mechanics, Theoretical and Applied. 250 00 Ensign, Newton E., Associate 250 00 Seely, Fred B., Associate 250 00 Total \$725 00 Music. 500 00 Erb, John L., Director, School of Music. 500 00 Total \$650 00 Physical Training (Men—for six weeks service). 375 00 Huff, George A. 300 00 Jones, Ralph R. 300 00 Zoppic, Robert C. 300 00 Mauthe, O. C., Director of Physical Education, Stout Institute, Menomonie, Wis. 300 00 Fargo, Roy N., Director Men's Gymnasium. 225 00 Glinstedt, Olaf H., Assistant. 150 00 Total \$2,000 00 Physical Training (Women). \$2,000 00 Physical Training (Women). \$25 00 Warner, Earl H., Assistant 200 00 Physics. \$60 00 Knipp, Charles T., Assistant Professor 400 00 Warner, Earl H., Assistant 100 00 Bayley, Paul L., Assistant Professor 300 00 Mathews, John M., Assistant Professor 300 00 <t< td=""><td>Mathematics. Townsend, Edgar J., Professor. Crathorne, Arthur R., Associate Chittenden, Edward W., Instructor Frary, Hobart D., Assistant.</td><td>$\begin{array}{c} 250 \\ 225 \end{array}$</td><td>00</td></t<>	Mathematics. Townsend, Edgar J., Professor. Crathorne, Arthur R., Associate Chittenden, Edward W., Instructor Frary, Hobart D., Assistant.	$\begin{array}{c} 250 \\ 225 \end{array}$	00
Seely, Fred B., Associate. 250 00		\$1,125	00
Music, Erb, John L., Director, School of Music. 500 00 Total	Ensign, Newton E. Associate. Seely, Fred B. Associate. Vallance, Alex, Instructor.	250	00
Erb, John L., Director, School of Music 500 00		\$725	00
Physical Training (Men—for six weeks service)	Erb, John L., Director, School of Music		
Gill, Harry L. 300 00 2 2 2 2 2 2 2 2	Total	\$650	00
monie, Wis. 300 00 Fargo, Roy N., Director Men's Gymnasium 225 00 Glimstedt, Olaf H., Assistant 150 00 Traveling expenses for Mr. Mauthe 50 00 Total \$2,000 00 Physical Training (Women). 225 00 Brooks, Verna, Instructor 225 00 Physics. 400 00 Knipp, Charles T., Assistant Professor 400 00 Williams, Elmer H., Associate 250 00 Warner, Earl H., Assistant 200 00 Bayley, Paul L., Assistant 150 00 Frazel, Charles S., Assistant 100 00 Fotal \$1,200 00 Political Science. 300 00 Mathews, John M., Assistant Professor 300 00 Anderson, Frank M., Professor (see History) 200 00 Total \$500 00 Sociology. 500 00 Laguardia, Cincinnati J. B., Assistant 200 00 Total \$200 00 Shelford, Victor E., Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00 <td>Jones, Ralph R Zuppke, Robert C.</td> <td>$\frac{300}{300}$</td> <td>00</td>	Jones, Ralph R Zuppke, Robert C.	$\frac{300}{300}$	00
Physical Training (Women)	monie, Wis. Fargo, Roy N., Director Men's Gymnasium Glimstedt, Olaf H., Assistant. Traveling expenses for Mr. Mauthe	150	00
Total			00
Physics.	Brooks, Verna, Instructor	225	00
Knipp, Charles T., Assistant Professor 400 00 Williams, Elmer H., Associate 250 00 Warner, Earl H., Assistant 200 00 Bayley, Paul L., Assistant 150 00 Frazel, Charles S., Assistant 100 00 Booth, H. T. 100 00 Total \$1,200 00 Political Science. 300 00 Mathews, John M., Assistant Professor 300 00 Anderson, Frank M., Professor (see History) 200 00 Sociology. 5500 00 Lichtenberger, James P., Professor 500 00 Spanish. 200 00 Total \$200 00 Zoology. 300 00 Instructor or 2 Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00		\$225	00
Political Science. Mathews, John M., Assistant Professor 300 00 Anderson, Frank M., Professor (see History) 200 00 Total \$500 00 Sociology. 500 00 Lichtenberger, James P., Professor 500 00 Spanish. 200 00 Total \$200 00 Total \$200 00 Spanish. 300 00 Total \$200 00 Total \$200 00 Instructor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00	Knipp, Charles T., Assistant Professor. Williams, Elmer H., Associate. Warner, Earl H., Assistant. Bayley, Paul L., Assistant. Frazel, Charles S., Assistant.	$\begin{array}{c} 200 \\ 150 \\ 100 \end{array}$	00 00
Mathews, John M., Assistant Professor 300 00 Anderson, Frank M., Professor (see History) 200 00 Total \$500 00 Sociology. 500 00 Lichtenberger, James P., Professor 500 00 Spanish. 200 00 Total \$200 00 Total \$200 00 Sociology. 300 00 Shelford, Victor E. Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00		\$1,200	00
Sociology. 500 00 Total \$500 00 Spanish. 200 00 Total \$200 00 Total \$200 00 Zoology. Shelford, Victor E. Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00	Mathews, John M., Assistant Professor		
Lichtenberger, James P., Professor. 500 00 Total \$500 00 Spanish. 200 00 Total \$200 00 Zoology. Shelford, Victor E. Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00		\$500	00
Spanish. 200 00 Laguardia, Cincinnati J. B., Assistant \$200 00 Total \$200 00 Zoology. 300 00 Shelford, Victor E. Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00	Lichtenberger, James P., Professor		
Laguardia, Cincinnati J. B., Assistant. 200 00 Total \$200 00 Zoology. 300 00 Instructor or 2 Assistants at \$75 each. 150 00 Total \$450 00	Spanish.	• •	
Zoology. 300 00 Shelford, Victor E. Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00	Laguardia, Cincinnati J. B., Assistant		
Shelford, Victor E. Assistant Professor 300 00 Instructor or 2 Assistants at \$75 each 150 00 Total \$450 00	Zoology.	-	
	Shelford, Victor E., Assistant Professor	150	00
			-

On motion of Mrs. Henrotin, this budget was approved.

At this point, President Abbott, being called from the room, requested Mrs. Evans to preside over the meeting.

POLICY OF DISPENSING WITH GENERAL CONTRACTORS.

(23) A letter from the Supervising Architect enclosing a report prepared by Mr. L. J. Towne arguing in favor of dispensing with general contractors on our building work. February 5, 1916.

President E. J. James, University of Illinois.

DEAR SIR: I am enclosing a report prepared by Mr. Towne which is his argument for our dispensing with general contractors on our building work. It seems to me that this matter is of enough importance to present to the Board of Trustees for their opinion.
Yours truly,

JAMES M. WHITE, Supervising Architect. January 31, 1916.

Prof. J. M. White, Supervising Architect.

Prof. J. M. White, Supervising Architect.

Dear Sir: I am of the opinion that the time has come for the University to take over the work of the general contractor in the construction of University buildings, and I wish to present a few facts in support of this position.

As you are aware, there is a definite movement in this direction among architects in this country, for reasons which I will attempt to present below. You are also aware that there has been a tendency on our part during the last three years to take over more and more of the responsibility for the building construction until we now have on the Chemistry Building six, and on the Ceramics Building seven contractors in addition to the general contractor.

Table I, attached, shows the proportion of the total cost of the last four buildings constructed on the Campus executed by the general contractor's own forces, first, including material furnished by him, and second, exclusive of such material. You will note that only 40 per cent of the total cost of the buildings in general is borne by the general contractor himself, including material furnished by him, and only 16½ per cent exclusive of such material. This is presented simply to indicate that the change proposed would not affect a very large proportion of the total cost of the building.

The following are in brief the main arguments for the elimination of the general contractor:

eral contractor:

The following are in brief the main arguments for the elimination of the general contractor:

1. The general contract method of construction is undoubtedly a survival of former conditions not now obtaining, when it was customary for one contractor to execute almost all of the work in connection with the building with his own forces. At the present time, due to the high degree of specialization which exists in various building trades, there have arisen many capable contractors dealing only with certain branches of building work, until even the general contractors have come to realize in a great many cases that they can sublet work at a profit to subcontractors. This has resulted in their gradually dropping off various parts of the work until at the present time only the masonry and carpentry work is commonly executed by the general contractor's own forces.

2. The elimination of the general contractor gives the architect a greater flexibility in the development of his plans and specifications for the building. The awarding of a general contract makes it necessary to plan in advance to the minutest detail work which will not be executed for months after the awarding of the contract, which often does not allow sufficient time for the proper study of the design. Then after a change is proposed after awarding the contract, it is usually impossible to get an adjustment of the cost favorable to the owner, it is also necessary to attempt to determine in advance, by securing advice from the contractors or otherwise, the relative cost of alternate methods of construction. This we sometimes attempt to determine in advance, by securing advice from the contractors or otherwise, the relative cost of alternate methods of construction. This we sometimes attempt to obviate by the taking of alternate bids, but I think we are all agreed that such alternate bids are very difficult to secure in such a way that they can be used advantageously. Where the architects can let subcontracts for the various branches of the work bids can be

work, as follows:

(1) By splitting the work up among the larger number of contractors, the necessity for a bond from any one contractor is considerably reduced and dis-

cretion can be used in requiring or not requiring same, at a considerable saving, amounting at a maximum to 1 per cent of the general contract.

(2) The general contractor's overhead expense amounting to 3 per cent to 5 per cent is eliminated as well as profit amounting to 5 per cent to 10 per cent. This saving is partly offset by whatever increase in the architect's overhead expense is made necessary to handle the larger number of contractors. In the case of our organization I do not believe such an increase would exceed 2 per cent of the cost of the building of the cost of the building.

The following are the main arguments against the elimination of the general

contractor:

1. Such a method makes the total cost of a building a little more uncertain at the outset than under the present method, because of the fact that it is undesirable to take bids on all branches of the work at the same time, or to hold up the earlier parts of construction work until plans and specifications can be prepared for all details of finish.

details of finish.

Referring again to Table I, it is evident that the total of the variable item, namely, the general contractor's labor cost, is only about 16½ per cent of the total cost of the building, assuming that we can estimate the cost of materials as accurately as he can. It is therefore evident that so far as the total cost of the building is concerned, the variable items can be estimated with sufficient accuracy, although this may involve the addition of an experienced estimator to our force at certain times in the year.

2. There is a possibility of our having difficulty in finding responsible subcontractors for masonry and carpentry work. So far as I know, there is only one local mason contractor, and one local carpenter contractor, with whom we would care to deal on University work. However, there are in Indianapolis, Danville, Decatur, Peoria, etc., firms which would be glad of any opportunity to figure on these independent branches with the further possibility that the local general contractors might be willing to take one or more branches at the exclusion of the remainder. remainder.

remainder.

3. The execution of construction work by the method outlined undoubtedly requires a higher grade of superintendence than where the responsibility is fixed on one general contractor. It would be necessary to strengthen our organization on this respect, at, of course, an increased overhead cost referred to above. Aside from the additional cost, there can be no argument on this point.

In conclusion, the whole matter, to my mind, reduces itself to this. Where the architect's organization is capable of handling the work in the manner outlined and where capable subcontractors can be secured, the general contractor has no logical place in a building project.

Yours truly.

Yours truly,

L. J. TOWNE. Superintendent of Construction.

TABLE I.

PROPORTION OF TOTAL COST OF UNIVERSITY BUILDINGS ACTUALLY BORNE BY GENERAL CONTRACTOR.

	Adminis- tration.	Chemistry.	Vivarium.	Ceramics.	Average.
Total cost, including equipment Total cost building General contract Labor and material executed by gen-	\$160,000 140,000 106,000	\$350,000 260,000 189,000	\$70,000 50,000 29,000	\$128,000 118.000 82,000	
eral contractor's own forces, ex- cluding subcontractors	76,000	133,000	19,000	37,000	
eral contract	72%	51%	65%	70%	65%
cost	48%	38%	27%	45%	40%
tractors and material orders	21,000	51,000	8,000	21,000	
Labor by general contractor, per cent of general contract	20%	27%	28%	26%	25%
Labor by general contractor, per cent of total cost	12½%	14½%	11½%	16½%	14%
General contractor's bond and insurance	1,500	4,026	860	1,375	

No action was taken in this matter.

At this point, President Abbott returned and resumed the chair.

TRANSFER OF FORESTRY PLANTATION.

(24) A recommendation that the President of the University be authorized to transfer the care and control of the Forestry Plantation, lying west of Lincoln Avenue, from the Department of Horticulture to the Department of Buildings and Grounds, and that this plantation be merged into a park; with the understanding that any changes made in the forestry at present, such as cutting down or remov-

ing trees, be done only after consultation with and approval of the Department of Horticulture. This recommendation is based on the following communication from Dr. T. J. Burrill to Prof. J. C. Blair, after conference with him and the Department of Buildings and Grounds.

February 3, 1916.

Prof. J. C. Blair, Urbana, Illinois.

My Dear Sir: In view of the sleet injury to the trees in the University forest plantation, you ask in yours of the 2d instant for my opinion as to what should be done, having prominently in mind the future policy to be pursued in regard to the plantation.

plantation, you ask in yours of the 2d instant for my opinion as to what should be done, having prominently in mind the future policy to be pursued in regard to the plantation.

In the first place, it may be well to recall the original purpose of this experiment with such facts in its history as seem to bear upon the present inquiry. It should be remembered that fifty years ago this was a new country, largely prairie, with multitudes of untried problems facing the early land owners and managers. The importation of wood of any kind had scarcely begun and the facilities existing gave small promise of what has since taken place. The supplies of coal were little known and its use little appreciated. The railroad engines commonly burned wood. By far the larger proportion of household heat especially in the kitchens (and often there was none other) came from the same fuel. Kitchen stoves especially adapted for coal were hardly known until at least a decade later. Good building timber was scarce and the home supply was rapidly disappearing with every prospect of an increase in price. On the other hand the country was speedily settling up. Increasing calls were made for construction timber as well as for wood for many purposes now supplied by iron, brick, cement, etc. It did not require any great vision to impress the necessity of making provision for future needs. And then good land was cheap. The usual returns from agricultural crops were poor. Corn rarely sold for more than twenty-five cents a bushle and had been so low with such poor market that it was burned instead of wood in the cook stoves. If timber was to be needed anywhere and could be grown to profit anywhere it would seem to thoughtful people of the time to be in Illinois.

This is, in brief, the general condition of things when the first steps were taken by the University authorities in regard to this plantation experiment. In support of these statements I wish to refer to the first report of the Board of Trustees issued in 1868, pp. 276-278. Here Mr. D.

treeless country, visited by destructive storms, by severe droughts, with its streams dried up, and food for man and beast in such scarcity that the poor can scarcely obtain a supply. In the other we see a charming landscape, a rich, fertile country, a population enjoying all the blessings which flow from peace and unity. Which will you choose? Will we take warning in time and arouse ourselves to action in an enterprise which promises such rich results?"

To get at still more directly the purpose in the minds of those chiefly responsible for the experiment, it would be well to read the report of the Committee on Horticulture found in the volume last cited, pp. 46-52. In this, forest planting takes the first and most emphasized place with those for fruits, shelter, and ornament following. A paragraph such as the following indicates why: "Timber for railroad ties, culverts, cars, roadways and buildings, fencing, vineyard stakes, hop poles, stanchions for coal banks, soft wood, like white willow and the poplars for berry boxes, crates and staves, hoop poles, wagon and carriage material, agricultural implements, and the uniform wants of the age, make up a demand of most surprising magnitude, that will add to our rural industry an importance that the most sanguine have not hitherto dreamed of."

The recommendations of this report were adopted and an appropriation from the State Legislature was later secured (March, 1869) to carry them into execution, thus indicating that others besides the members of this committee considered the project a greatly important one.

No time was lost in making a beginning. Many thousand forest tree seedlings small fin size were purchased that spring and put into a nursery from which the first were transferred to the permanent grounds two years later (1871). Others from the same source or grown in the meantime from seed followed year by year for about three years and then at longer intervals. Hence the main parts of the plantation are 42 to 45 years old. There is about twenty acres of it unfavorable,

But the showing today is a far cry from the early anticipations as somewhat sketched above. Taken as a whole and basing estimates solely on timber values, I do not believe the area is worth much more today than is an adjoining equal

area of open land. That is, the receipts from harvested wood would probably not be more than the expense of clearing and putting into shape for other crops. For certain blocks this would not be true, notably that containing the European larch, and, if we were near a natural market, for that of the green ash. There are lessons to be learned now of abundant value and doubtless more if extension of time is permitted, but in my mind the experiment has gone fully far enough now to make it indisputably plain that forest trees cannot be grown for ordinary timber to a comparative profit on Illinois farm land suitable for agricultural purposes. If conditions and outlook for use had continued as counted forty to fifty years ago, the anticipations were entirely too rosy. This with the changes in requirements for fuel and construction timber make things widely different now.

It is true that time sufficient for usual forest harvests has not elapsed; the trees are not much more than half the age usually specified for a crop, but with the light we now have there can never be anything like financial results equal to those from proper farm management of the land—the whole area considered.

We may as well accept this lesson now. The test of varieties for such soil and conditions to date ought also to be considered well made, as ought also the distances for planting and the general management of an artificial forest. The time from the beginning so nearly reaches fifty years that under ordinary circumstances it would probably be advisable to let the more general period round out before drawing conclusions and more especially before terminating the experiment. But a crisis has come in the serious damage from sleet and the formidable expenditure required to reshape the trees for further timber growth. It would therefore seem to be good policy to decide now rather than a half dozen years later what the future of the plantation is to be and to be guided in the repair proceedings by this decision.

Now the forest has served a very use

I believe the time has come to make this change in policy and purpose and submit the foregoing reasons without trying now to answer further your specific questions. I sincerely trust, however, that this main problem will have careful and wise consideration. A mistake may easily be made but perhaps never rectified. Anybody could destroy in a few hours the earnest painstaking work of forty years. Better let things be as they are a year or more, nowithstanding the eye-sore condition, than to adopt too hastily an incorrect decision. Even if the change of policy is made, the change of treatment should be slow in practical execution in order to secure the best final results.

Hoping that this may at least do no harm to a vital interest, one of farreaching, century-long, influence and importance, I am

Very truly yours,

T. J. Burrill.

T. J. BURRILL.

On motion of Mr. Small this authority was given.

APPARATUS FOR MOVING TREES.

(25) A request from Prof. James M. White, Supervising Architect, for an appropriation of five hundred dollars for the purchase of a tree-moving equipment. On motion of Mr. Small, this appropriation was made. The vote was as Ayes, Mr. Abbott, Mr. Carr, Mrs. Evans, Mrs. Henrotin, Mr. Hoit, Mr. Small, Miss Watson; noes, none; absent, Mr. Blair, Mrs. Busey, Mr. Dunne, Mr. Trevett, Mr. Ward.

COST OF EXTRAS ON NEW BUILDINGS.

(26) A report from the Supervising Architect giving an analysis of extra charges for work on the construction of the Administration, Chemistry, Vivarium,

charges for work on the construction of the Administration, Chemistry, Vivarium, and Ceramics Buildings.

"The attached table was prepared in order to indicate the general causes for the increase in the cost of most of our buildings on the Campus over the contract prices, by from 1 per cent to 3 per cent. Any attempt to classify such extras is certain to be more or less arbitrary, and the various groups grade into one another without any hard and fast lines of separation. After some study, I adopted the following analysis as representing a fair distribution of the various items:

(1) Errors in Plan: Under this heading are included all extras which are caused by actual mistakes in drafting or specification work, the rectification of which involved the changing of construction but which would not have added anything to the cost of the building had same been discovered before the preparation of bids. In other words, this represents an actual waste of funds caused by some inaccuracy in drafting or insufficient study of the problem, so that the contractor was inevitably led into wrong constructions.

(2) Omissions in Plan: In this class are placed those errors in plan and specification which, while they involved extra work to rectify, cannot properly be considered as waste, because of the fact that extra work or material not shown on the plan, and which the contractor had not, presumably, figured in his bid, had to be furnished. In other words, while the extra work was caused by mistakes in the plan, the University received full value for the expenditure.

(3) Unforeseen Conditions: In this class are placed such extras as extra foundation work caused by conditions which could not be determined until the excavation had been made.

(4) Changes by the Supervising Architect: In this class are placed those extras which resulted from the continued study which the plans received during construction, and all of which represent an actual betterment in, or addition to, the building.

building.

The distinction between classes 2 and 4 is simply that items in class 2 were in the mind of the designer but were not provided in the plan; while items in class 4 resulted as stated, from more extensive study of the plan as the work progressed.

(5) Changes by Occupants: In this class are placed extras caused by requests for changes in plan by the persons who are to occupy the building.

(6) Errors of Superintendence: In this class are placed extras which might have been obviated by a more careful control of the work by the University Superintendent on the building.

A study of this table will undoubtedly reveal, first, the importance of the utmost care in the preparation and checking of drawings and specifications, but it will also reveal as indicated by the proportion of orders falling into classes 3, 4 and 5, the fact that it is impossible to avoid a considerable amount of extra work and that same should be provided for by an allowance of a sum not less than 2 per cent of the total amount of contracts in making the estimate for the proposed building."

This report was received for record.

ANALYSIS OF EXTRA WORK AUTHORIZED ON ADMINISTRATION, CHEMISTRY VIVARIUM AND CERAMICS BUILDINGS.

Building.	Con- tract cost in- cluding extras.			sions	in	Unfors conditi		archite		Change occupa		Error, super tende	rin-	Per cent total extras.	Per cent total extras less column 3.
Adminis- tration Chemistry . Vivarium . Ceramics	\$131,000 240,000 42,500 112,000	318 32 776 32 36 58	.24 .32 .08	515 53 637 14	.40 .26 .22	544 94 621 09	.42 .26	2,006 50 682 78 420 69	1.53 .28 .99	636 12 1,108 90 30 98	.49	110 50 185 00 29 00	.08	3.16 1.65 1.99	2.74 1.39 1.43 1.17

NOTES—The figures for the Administration and Vivarium Buildings are complete. Final settlement has not been made on the Chemistry and Ceramics Buildings but the figures given will not be materially altered.

Percentages are based on total contract cost of building and include all branches.

ROOMS IN WOMEN'S DORMITORY.

(27) A letter from Prof. J. M. White, Supervising Architect, calling attention to the fact that if the University is to fix a reasonable price for board and lodging in the new Residence Hall for Women it will be necessary to make some readjustments in the rooms so that a larger number of young women can be accommodated in the building, or else the building will probably be operated at a loss. compelling the use of money from the general fund to pay the expenses of operation.

This matter was discussed at some length. The evident feeling of the board was that some of the single rooms should be replaced by double rooms so as to provide for at least one hundred girls in the building. matter was referred to a committee consisting of Mrs. Evans and Miss Watson, it being undertsood that if, in conference with the Supervising Architect, they should find it feasible to modify the design for this purpose without redesigning the whole building, they should instruct the Supervising Architect to make the necessary changes.

BUILDING PLANS.

Prof. J. M. White, Supervising Architect, presented plans and sketches of new buildings as follows:

EDUCATION BUILDING.

A revised sketch of the exterior of the new building for the School of Education.

LIBRARY.

A preliminary sketch of the new Library to be located just south of the terminus of Wright Street, with its north and south axis on the center line of Wright Street prolonged and its east and west axis on the prolongation of the east and west axis of the Armory, as approved by the board on March 10, 1914 [Report, 1914, page 725].

MUSIC BUILDING.

A sketch of the proposed Smith Memorial Building for the School of Music.

GREGORY MEMORIAL BUILDING.

A sketch of the Gregory Memorial Building, showing its relation to the possible architectural scheme of development of the University.

All these plans and sketches were discussed fully, but no action was taken.

AUDIT REPORT.

Mr. Hoit presented for the Finance Committee the report of the United States Audit Company for the quarter ending December 31, 1915. This report was received for record.

Hon. Otis W. Hoit, Chairman, Finance Committee.

DEAR SIR: Following instructions, we have audited the books and accounts of the University of Illinois at Urbana, Ill., for the second quarter of the fiscal year,

ended December 31, 1915.

We are sending you herewith a copy of the report prepared by the Comptroller of the University, Mr. W. B. Castenholz, covering the first two quarters of the

We have verified the cash receipts, disbursements and balances shown in the report, with the exception of the petty cash funds of the College of Medicine and the School of Pharmacy, amounting respectively, to \$300 and \$250.

Subject to the foregoing remarks,

We Transport That the various schedules as contained in the report of

Subject to the foregoing remarks,

WE HEREBY CERTIFY That the various schedules as contained in the report of
the Comptroller correctly set forth the transactions of the quarter ended December
31, 1915, and that they are in accordance with the books.

Yours very truly,

United States Audit Co., Whitney B. Flershem, Certified Public Accountant.

SALE OF SMITH FARMS.

Mr. Hoit reported that the Finance Committee had voted to place the Smith farms in the hands of Mr. Bruce Henderson for sale at a price not less than Capt. Smith's valuation, according to the action taken December 14, 1915 [pages 863-864], whereby this matter was referred to the committee with power to act.

COMPTROLLER'S REPORT.

The Secretary presented for record the report of Mr. W. B. Castenholz, Comptroller, for the six months ending December 31, 1915. January 12, 1916.

Mr. W. L. Abbott. President, Board of Trustees.

DEAR SIR: I have the honor to submit herewith the quarterly statement covering the financial operations of the University of Illinois for the six months ended December 31, 1915. Yours very truly,

W. B. CASTENHOLZ, Comptroller.

SCHEDULE 1. SUMMARY OF RECEIPTS AND DISBURSEMENTS AS AT DEC. 31, 1915.

	Balance July 1, 1915.	Receipts Schedule 2.	State revenue.	Total.
University Treasurer—				
General	\$*94, 122, 41	\$383.853 77		\$477,976 18
United States Agricultural Experiment	02, 200	4000,000 11		Ψ1.1,010 10
Station	647 09	15, 257 49		15,904 58
United States Smith-Lever		18,141 10		18, 141 10
Trusts	7,938 43	11,015 24		18,953 67
Petty cash—	1			
Cashier				5,000 00
Secretary, Colleges of Medicine and Den-				
tistry Actuary, School of Pharmacy	300 00			
State Auditor—	250 00			250 00
Buildings, land and equipment	1	ļ	\$436,500 00	436,500 00
Administrative office			76, 145 00	76,145 00
General departments.			111,550 00	111.550 00
Instruction.				
Research	1	1	97,000 00	97,000 00
Physical plant	1	1	218, 250 00	218, 250 00
Contingent expense	1		242,370 95	242,370 95
Water survey and Investigation	727 88		28,500 00	29, 227 88
Miners, and Mechanics' Institutes	1,353 77			1,353 77
Total	\$110,339 58	\$428, 267 60	\$2,453,370 95	\$2,991,978 13

^{*} Including transfer from petty cash, \$600,

SCHEDULE 1-Concluded.

· · · · · · · · · · · · · · · · · · ·	Disburse-	Bala	nces.
	ments Schedule 6.	Items.	Totals.
University Treasurer— General. United States Agricultural Experiment Station United States Smith-Lever. Trusts. Petty cash—	16,400 41 11,577 71	\$227,239 11 2,136 01 1,740 69 7,375 96	\$238,491 7
Cashier Secretary, Colleges of Medicine and Dentistry Actuary, School of Pharmacy		\$5,000 00 . 300 00 . 250 00	5,550 0
State Auditor— Buildings, land and equipment	37, 405 59 61, 098 16 . 768, 444 12 34, 602 43 83, 478 14 11, 181 65 7, 929 69	- \$172, 483 14 38, 739 41 50, 451 84 474, 610 88 62, 397 57 184, 771 86 231, 189 30 21, 298 19	
Miners' and Mechanics Institutes Total			1,185,942

SCHEDULE 2.

STATEMENT OF CASH RECEIPTS FOR THE SIX MONTHS ENDED DEC. 31,	1915.	
General fund— Schedule 21 United States Agricultural Experiment Station Fund—	\$383,853	77
Adams Fund \$7,500 00 Adams Fund—receipts 257 49 Hatch Fund 7,500 00		
United States Smith-Lever Fund	15,257 $18,141$ $11,015$	10
Total ,,	\$428,267	60

SCHEDULE 21.

SCHEDULE 21.			
CASH RECEIPTS ON ACCOUNT OF GENERAL FUND FOR THE SIX MODEC. 31, 1915.	ONTHS ENDE	D	
Agricultural College and Experiment Station— Agricultural College administration Agricultural extension Agricultural College press service Agronomy College—	\$ 		50 50 00
Farm mechanics \$154 Soil fertility 266 Soil physics 37	77 35	450	0.4
Agronomy Experiment Station— Crop Production Station	72 08	458	04
Animal Husbandry College— \$ 8 Beef cattle 3,079 Animal Husbandry education 18 General and farming 61 Horses 1,320 Horses—specimens 50 Poultry 498 Sheep 676 Sheep—specimens 1,211 Swine 1,211	91 05 25 51 93 00 73 89 00	901	61
Swine—specimens 100 Animal Husbandry Experiment Station— \$237 Administration \$276 Bulletins and publications 10 General and farming 1 Horses 32 Meat 18 Sheep 399 Swine 1,250	7, 45 14 81 76 80 86 60 91	125 228	
Dairy Husbandry College— \$ 1,294 Administration \$ 26,901 Creamery 26,901 Bacteriology 946 Pure bred herd 2,732	85 49 89 46	875	
Dairy Experiment Station— \$ 23 Economics \$ 1,786 Experiment herd 5,248 Dairy Farm 5,248 Official testing 2,402 Testing Association 387	00 52 26 70 04	847	
Horticulture College— Administration	26 01 07 69 25 10 54 58 86	,	
Horticulture Experiment Station— Olericulture \$31 Pomology 8 Plant breeding 18	42 50	504	
Household Science— Cafeteria	75	58 986	
	\$66.	039	93
College of Engineering— Ceramics Civil Engineering Electrical Engineering Engineering Experiment Station Mechanical Engineering Theoretical and Applied Mechanics.		10 57 1 186 38 42	70 00 05 45 21
· · · · · · · · · · · · · · · · · · ·		335	

SCHEDULE 21—Concluded.		
College of Liberal Arts and Sciences—		
Botany Chemistry	$^{\$}_{420}$	00
Classical Museum	3	58
Museum of European CultureSalaries		40 00
Sociology	3	75
	\$ 562	73
Student fees— General and Laboratory—	•	
Summer Session 1915 c 754 95		
First Semester 1914-15. 10 00 Second Semester 1914-15. 333 50		
First Semester 1915-16 100.590 86		
Second Semester 1913-14	101,711	50
Lockers—	202,122	
Men's Gymnasium \$1,782 50 Women's Gymnasium 373 50 Shop and Laboratory 127 50		
Shop and Laboratory		
	2,283	50
Miscellaneous—	\$103,995	00
Accountancy		05
Alumni Record		$\frac{75}{75}$
Business office	23	00
Directory of Matriculants Emergency Hospital	$\frac{7}{28}$	$\frac{50}{00}$
Graduate School	4	60
Information office	4	$\frac{82}{71}$
Interest on daily balances	14,406	44
Interest Interest on daily balances. Interest on endowment fund. Journal of English and Germanic Philology. Lectures	$14,406 \\ 16,223 \\ 344 \\ 207$	30
Lectures	$\begin{array}{c} 207 \\ 171 \end{array}$	00
Library Library salaries Military Department	75	00
Military Department		$\begin{array}{c} 87 \\ 00 \end{array}$
Miners' and Mechanics' Institutes. Morrill Fund. School of Music	25,000	00
School of Music	$\substack{169 \\ 25,000}$	25 00
Orchestra concerts	3,389	75
Smith farms	5,304	$\frac{84}{50}$
Summer Session salaries	400	00
Summer Session 1915	2	12
Student of Salaries Summer Session salaries Summer Library School salaries Summer Session 1915 University Studies Water survey Water Survey	$15\overline{7} \\ 1,907$	56 25
Weekly Calendar	1,001	50
	\$93,010	31
Physical plant—		
Administration Building Buildings	420	$\begin{array}{c} 50 \\ 84 \end{array}$
Buildings General—heating and lighting Rentals—	917	94
Armory		50
Auditorium	$\frac{135}{70}$	
Gymnasium Annex Ground	2	66
Houses Morrow Hall	$962 \\ 15$	00
ALGIZON IIIII		
Stores—	\$ 2,540	
Blueprinting and photographyLabor	$\begin{array}{c} 2,012 \\ 42,921 \end{array}$	$\frac{15}{70}$
Office supplies	1,979	71
Physical plant	$18,282 \\ 4,553$	UĐ
Printograph	123	03
College of Dentistry	\$69,872	15 75
College of Medicine		55
School of Pharmacy	13,722	
•		_
Total, Schedule 2	\$383,853	77

SCHEDULE 3. SUMMARY OF APPPOPRIATIONS AS AT DEC. 31, 1915.

	Appropriations and credits.	Disburse- ments.	Encum- brances.	Balances.
Land, buildings and equipment (Schedule 31). Physical plant (Schedule 32). Administration and general expense (Schedule 33). Liberal Arts and Sciences (Schedule 34). Agriculture (Schedule 35). Engineering (Schedule 36). Graduate School (Schedule 37). Medicine and Dentistry (Schedule 38). Other school and departments (Schedule 39). Total.	\$511,865 56 244,972 15 362,028 05 491,623 08 663,788 96 341,890 22 54,700 00 200,000 00 221,940 51	\$298, 467 79 82, 376 07 133, 284 79 228, 532 37 321, 558 48 144, 528 10 17, 571 00 92, 645 54 94, 522 82 \$1, 413, 486 96	\$218, 142 89 45, 578 78 115, 348 81 237, 427 93 195, 736 86 142, 750 69 20, 320 10 58, 101 36 68, 888 19 \$1,102, 295 61	\$ *4,745 42 117,017 30 113,394 52 25,662 78 146,493 62 54,611 43 16,808 90 49,253 10 58,529 50 \$577,025 96

^{*} Overdraft.

SCHEDULE 31.

STATEMENT OF APPROPRIATIONS FOR LAND, BUILDINGS AND EQUIPMENT AS AT DEC. 31, 1915.

	Appropriations and credits.	Disburse- ments.	Encum- brances.	Balances.
Land. Buildings— Administration Building.	\$ 95,737 00 16,513 50	\$95,706 88 15,970 60	\$ 2,193 53	\$ 30 12 *1,650 63
Ceramics Building	208,000 00		63,097 50 144,094 79	13,450 69 *22,870 05 *1,638 08
Commerce Building 1912-13	615 06	39, 420 71 562 45 158 50	21 75	2,508 28 30 86 *158 50
Women's Residence Hall Natural History addition General equipment—	• • • • • • • • • • • • • • • • • • • •	215 02		*1,643 16 *215 02
Furniture and fixturesPractice organ. Entomology cases.	1,000 00		664 31	1,410 37 1,000 00 5,000 00
Total, Schedule 3	\$511,865 56	\$298,467 79	\$218,142 89	*\$4,745 12

^{*} Overdraft.

SCHEDULE 32.

STATEMENT OF THE ACCOUNTS FOR PHYSICAL PLANT AS AT DEC. 31, 1915.

,				
	Appropriations and credits.	Disburse- ments.	Encum- brances.	Balances.
Extension— Heating and lighting plant. Heating extension— Lighting extension Tunnel extension. Water extension. Pavements and walks Building heating extension Feed water treating plant.		729 29 134 26 31 25 25 00 1,976 96 113 55	\$ 150 00 3,800 00 400 00 5,881 98 2,690 00 4,585 00 400 00	
Total, extension	\$30,000 00	\$4,228 19	\$17,906 98	\$7,864 83

SCHEDULE 32-Concluded.

	Appropriations and credits.	Disburse- ments.	Encum- brances.	Balances.
Operation and maintenance— Salaries Extra assistance. Office expense. Heating and lighting Building operation Building maintenance Grounds Fire protection. Telephone exchange. Water Station General operation Acoustics investigation Total, Schedule 3.	2,000 00 76,043 75 56,000 00 28,000 00 13,000 00 3,800 00 3,000 00 2,000 00 14,209 00	\$ 5,471 79 1,863 85 962 16 25,680 55 18,531 45 11,117 82 5,096 51 1,148 77 1,938 49 350 71 5,985 78	\$ 4,956 61 42 30 14,546 89 7,397 50 28 50 150 00 550 00 \$45,578 78	\$ 4, 136 11 995 55 35, 816 3 37, 468 51 9, 484 61 7, 651 32 1, 061 5 1, 499 22 7, 664 2 500 00

SCHEDULE 33.

STATEMENT OF THE ACCOUNTS FOR ADMINISTRATION AND GENERAL EXPENSE AS AT DEC. 31, 1915.

	Appropria- tions and credits.	Disburse- ments.	Encum- brances.	Balances.
Administrative offices— Salaries Board of Trustees President's office. Vice-President's office. Business office Registrar's office Legal Counsel. Council of Administration. University Senate Adviser to Foreign Students.	\$50,584 86 7,601 75 5,000 00 5,823 00 6,800 00 400 00 500 00 100 00	\$25, 183 33 3, 198 46 2, 443 14 2, 258 2, 519 17 4, 327 94 4, 327 95 325 36	\$25,401 53 9 50 31 75 481 35 155 30 6 00	\$ 4,393 79 2,525 11 477 42 2,822 48 2,316 76 370 45 168 64 100 00 44 31
General departments— Salaries Library Library additions Dean of Men Dean of Women Physical Training—Men Physical Training—Women Military High School Visitor High School Oratorical Contest. Educational Photography.	95, 695 85 12, 177 00 50, 000 00 4, 625 00 600 00 4, 800 00 3, 849 62 3, 700 00 4, 000 00	44, 663 35 5, 782 35 10, 923 46 2, 006 83 193 32 1, 976 81 238 62 1, 938 31 1, 498 31 1, 498 35 1, 54 25 1, 526 54	51,032 50 924 00 23,815 85 147 56 16 25 845 35 67 30 384 15	5, 470 65 15, 260 69 2, 470 61 390 43 1, 977 84 194 08 1, 527 16 2, 201 67 305 75 942 31
Pub ications— General. Directory of Matriculants. Alumni Quarterly. Press Bulletin. Students' Handbook.	12,000 00 5,000 00 1,000 00 1,000 00 300 00	3,652 73 2,186 50 500 00 179 14 300 00	4,196 98 194 20	4, 150 29 2, 813 50 500 00 626 66
General expense— Lectures. Concerts. Convocations. Receptions and social functions. Towel system Medical examiner Information office. Rebates. Smith Farms. Incidentals.	3,000 00 5,000 00 1,000 00 1,000 00 1,250 00 300 00 5,001 07 10,000 00 5,159 90 53,300 00	318 00 1, 116 31 193 76 420 49 764 20 125 00 1, 474 69 4,885 00 3, 333 25 4,931 23	3,868 65 175 00 1,557 98 25 21 478 35	2,682 00 15 04 806 24 579 51 485 80 1,968 40 5,115 00 1,801 44 47,890 42
Total, Schedule 3	\$362,028 05	\$133,284 79	\$115,348 81	\$113,394 4

SCHEDULE 34. STATEMENT OF THE ACCOUNTS FOR THE COLLEGE OF LIBERAL ARTS AND SCIENCES AS AT DEC. 31, 1915.

	Appropria- tions.	Disburse. ments.	Encum- brances.	Balances.
Salaries	\$402,251 35	\$185,449 65	\$216,801 70	
Administration	2,600 00	620 43	. 5 50	\$1.974 0
Art and Design	800 00	321 57	160 55	317 8
Astronomy	800 00	97 24	13 45	689 3
Bacteriology	2,900 00	1,264 12	1,321 97	313 9
Botany	6,800 00	3,589 05	2,748 88	462 0
Chemistry	36,420 00	25,880 18	12,196 68	†*1,656 8
Classics	550 00	75 58	119 10	355 3
Education	2,500 00	1,231 99	39 05	1,228 9
English	1,800 00	736 84	3 00	1,060 1
Entomology	1,600 00	482 69	190 65	926 (
leology	1,600 00	455 33	224 05	920 (
derman	200 00	95 62	2 00	102 3
History	300 00	188 35	5 0 0	106
ournalism	2,500 00	2,427 12	105 50	*32
Mathematics	700 00	271 42	128 65	299
Philosophy	100 00	48 49	3 00	49
Physiology	3,375 00	647 82	705 05	2,022
Political Science	125 00	26 64	 	98
Psychology	1,100 00	179 92	65 27	854
Romance Language	250 00	72 06	105 95	71
Sociology	303 75	266 68	2 25	33
Goology	6,950 00	1,673 36	955 20	4,321
Iuseums—				
Classical	5,003 58	613 07	760 00	3,630
European Culture	5,094 40	1,357 45	232 20	3,504
Natural History	5,000 00	459 70	533 28	4,007
Total, Schedule 3	\$491,623 08	\$228,532 37	\$237,427 93	\$25,662

SCHEDULE 35.

STATEMENT OF THE ACCOUNTS FOR THE AGRICULTURAL COLLEGE AND EXPERIMENT STATION AS AT DEC. 31, 1915.

	Appropria- tions.	Disburse- ments.	Encum- brances. •	Balances.
Buildings— General. Clinic Building 1912-13. Cold Storage 1912-13 College— Administration Agricultural extension Agronomy (Schedule 351). Animal Husbandry (Schedule 352). Dairy Husbandy (Schedule 353). Horticulture (Schedule 354). Household Science. Household Science—afeteria. Veterinary Science Animal Husbandry—specimens (Schedule 352). Station— Agronomy—crops (Schedule 351). Animal Husbandry (Schedule 351). Animal Husbandry (Schedule 353). Horticulture (Schedule 353). Horticulture (Schedule 354). United States Experiment Station— Adams Fund—	\$15, 819 97 4, 925 72 9, 000 00 15, 912 62 20, 793 35 55, 631 76 72, 397 45 70, 162 79 57, 892 47 29, 091 75 10, 813 10 3, 290 81 2, 456 11 20, 707 05 100, 724 17 44, 851 08	\$ 218 33		\$ 1,051 64 4,925 72 9,000 5,311 29 3,170 58 12,723 94 17,426 37 11,938 54 9,335 45 3,939 85 2,519 14 2,728 28 2,156 52 **247 69 8,680 55 8,834 98 3,326 85
Administration Animal Husbandry (Schedule 352) Horticulture (Schedule 354) Receipts (Animal Husbandry)	8,500 00 4,500 00	600 00 3,338 80 3,553 44 79 84	1,300 00 2,247 34 901 66	100 00 2,913 86 44 90 824 73

^{*} Overdraft, *† On account of import orders held up.

SCHEDULE 35-Concluded.

	Appropria- tions-	Disburse- ments.	Encum- brances.	Balances.
United States Experiment Station—Con- cluded— Hatch Fund— Administration	\$ 4,000 00	\$1,338 2 3	\$2, 350 00	\$ 311 77
Agronomy (Schedule 351)	2,500 00 2,509 00 6,000 00	1,392 81 753 11 2,712 33	900 00 600 00 2,983 11	207 19 1,146 89 304 56
Administration		538 93 5,702 93 6,564 96	65 50 2,622 81 772 48	4,877 57 *325 74 5,862 56
Agronomy Animal Husbandry Dairy Husbandry	2,000 00 2,000 00 2,000 00	1,100 00 17 29 849 98	900 00 1,466 64 699 99	516 07 450 03 400 04
Horticulture Farm management Soil maps— Horticulture	2,000 09 1,600 00 1,116 41	1, 199 97 426 35 379 31	399 99 240 00 606 19	933 65 130 91
Total, Schedule 3	\$663,788 96	\$321,558 48	\$195,736 86	\$146,493 62

^{*} Overdrafts.

SCHEDULE 351.

STATEMENT OF THE ACCOUNTS FOR THE DEPARTMENT OF AGRONOMY AS AT DEC. 31, 1915.

	Appropriations.	Disburse- ments.	Encum- brances.	Balances.
College— Crop production. Farm mechanics Plant breeding. Soil fertility. Soil physics. Total, Schedule 35.		\$3,094 00 8,424 32 2,492 20 7,263 06 4,450 17 \$25,723 75	\$1,331 80 5,557 22 1,188 64 4,933 96 4,172 45 \$17,184 07	\$12, 723 94
Station—crops— Crop production. Plant breeding. Total, Schedule 35.		\$8,878 43 3,742 20 \$12,620 63	\$4,483 98 3,627 20 \$8,111 18	*\$24 76
Station—soils— Soils—general. Experiment fields. Soil analysis Soil biology. Soil extension. Soil survey.		12,983 44	\$ 5,585 20 12,694 44 5,628 69 1,818 00 6,617 57	
Total, Schedule 35 United States Experiment Station— Hatch—Soil fertility United States Smith-Lever—	\$100,724 07 \$2,500 00	\$47,630 58 \$1,392 81	\$32,343 90 \$900 00	\$20,749 69 \$207 19
Agronomy. Total	2,000 00 \$181,562 98	1,100 00 \$88,467 77	900 00 \$59,439 15	\$33,656 00

^{*} Overdraft.

SCHEDULE 352.

STATEMENT OF THE ACCOUNTS FOR THE DEPARTMENT OF ANIMAL HUSBANDRY AS AT DEC. 31, 1915.

	Appropriations.	Disburse. ments.	Encum- brances.	Balances.
College— Administration Animal Nutrition Beef cattle Education General and farming Genetics Horses Poultry Sheep. Swine. Total, Schedule 35.		\$9,830 27 2,382 82 8,040 03 463 59 2,958 40 600 83 3,236 58 1,422 26 1,113 09 2,925 29	\$15,735 01 4,641 56 177 00 58 85 683 76 160 00 357 87 29 02 31 40 135 45	\$17, 426 37
Station— Administration Animal Nutrition Beef cattile Bulletins and publications General and farming Horses. Live stock systems Meat. Sheep. Swine. Genetics. Total, Schedule 35.		\$7, 988 01. 5, 977 29 2, 715 43 915 49 2, 3827 37 1, 955 04 2, 027 57 1, 072 19 805 82 2, 166 78	\$2, 108 62 1, 445 14 1, 499 00 267 00 50 95 499 98 55 25 292 60 2,000 00 \$8,218 54	\$8,680 55
Specimens— Beef cattle Sheep Swine. Total, Schedule 35.		\$ 11 53 20 75 267 31 \$299 59		\$2,156 52
United States Experiment Station— Adams— Animal Nutrition. Genetics. Swine. Total, Schedule 35.		\$1,891 71 963 68 483 41 \$3,338 80	\$1,308 32 527 36 411 66 \$2,247 34	\$2,913 86
United States Smith-Lever. Animal Husbandry Adams—receipts. Total	\$2,000 00 904 58 \$131,109 22	\$17 29 79 85 \$64,660 68	\$1,466 64	\$516 07 824 73 \$32,518 10

SCHEDULE 353.

STATEMENT OF THE ACCOUNTS FOR THE DEPARTMENT OF DAIRY HUSBANDRY AS AT DEC. 31, 1915.

	Appropriations.	Disburse- ments.	Encum- brances.	Balances.
College— Administration. Bacteriology. Creamery. Economics Pure bred herd. Technology. Total, Schedule 35.		\$ 7,208 00 2,049 45 23,146 05 1,247 96 8,124 38 3,220 41 \$41,996 26	\$4,810 24 1,020 00 2,602 23 874 98 1,137 57 2,782 98	\$11,938 54

SCHEDULE 353-Concluded.

	Appropria- tions.	Disburse- ments.	Encum- brances.	Balances.
Station— Bacteriology Economics. Experiment herd. Farm Station. Official testing Technology. Testing Association Chemistry.		6, 772 22 3, 187 22 2, 723 34	\$ 425 52 1, 404 17 1, 759 57 517 75	
Total, Schedule 35	\$31,615 57	\$17,441 98	\$5,338 61	\$8,834 98
United States Experiment Station— Bacteriology. Chemistry. Economics.		\$1,643 06 7 74 1,061 53	\$1,674 96 58 15 1,250 00	
Total, Schedule 35	\$6,000 00	\$2,712 33	\$2,983 11	\$304 56
United States Smith-Lever Dairy Husbandry	\$2,000 00	\$849 98	\$699 99	\$450 03
Total	\$109,778 36	\$66,000 54	\$22,249 71	\$21,528 11

SCHEDULE 354.

STATEMENT OF THE ACCOUNTS FOR THE DEPARTMENT OF HORTICULTURE AS AT DEC. 31, 1915.

	Appropria- tions.	Disburse- ments.	Encum- brances.	Balances.
College— Administration Landscape extension Landscape gardening Pomology. Olericulture Floriculture Olney Farm Urbana Farm General and farming.		\$4,614 27 4,298 14 5,929 60 2,795 37 3,491 24 4,755 64 1,245 92 1;466 44 1,083 87	\$3,050 96 3,454 68 5,133 98 3,083 67 3,127 96 655 78 305 59 54 90 9 10	
Total, Schedule 35	\$57,892 47	\$29,680 49	\$18,876 53	\$9,335 45
Station— Pomology Olericulture Plant breeding Olney Farm. Floriculture		\$5,387 03 446 75 2,839 80 440 00 4,250 98	\$4, 124 63 7 20 2, 877 10 5, 699 88	
Total, Schedule 35	\$29,400 22	\$13,364 56	\$12,708 81	\$3,326 85
United States Experiment Station— Adams— Pomology Plant breeding		\$ 150 00 3,403 44	\$901 66	
Total, Schedule 35	\$4,500 00	\$3,553 44	\$901 66	\$44 90
United States Smith-Lever— Horticulture	\$2,000 00	\$1,199 97	\$399 99	\$400 04
Total	\$93,792 69	\$47,798 46	\$32,886 90	\$13,107 24

SCHEDULE 36. STATEMENT OF THE ACCOUNTS FOR THE ENGINEERING COLLEGE AND EXPERIMENT STATION AS AT DEC. 31, 1915.

	Appropria- tions.	Disburse- ments.	Encum- brances.	Balances.	
College— Salaries Administration Architecture. Ceramic Engineering Civil Engineering Electrical Engineering General Engineering Mechanical Engineering Mining Engineering Physics Railway Engineering Theoretical and Applied Mechanics. Station— Salaries Administration. Civil Engineering Electrical Engineering Mechanical Engineering Mechanical Engineering Mechanical Engineering Mailway Engineering Railway Engineering Theoretical and Applied Mechanics. Physics	\$224,037 12 15,000 00 4,200 00 5,510 70 2,500 00 5,001 05 1,000 00 11,837 70 4,000 00 6,000 00 4,000 00 6,000 00 21,372 88 15,003 00 1,500 00 1,500 00 2,000 00 3,500 00 5,000 00 5,000 00	#105, 319 60 613 38 1, 250 24 2, 432 67 869 87 879 86 7, 461 98 1, 077 24 870 96 970 06 2, 331 76 8, 150 27 6, 249 63 5 75 421 05 387 77 317 19 217 87 1, 164 36	\$118,717 52 324 00 346 43 1,068 42 228 09 1,184 00 199 05 1,202 35 230 84 370 60 33 74 812 01 13,222 61 4,333 80 269 17	\$14,062 65 2,603 33 2,009 61 1,420 04 2,937 21 113 03 3,173 37 2,691 92 4,758 44 2,996 22 2,856 25 4,419 57 494 25 809 77 1,112 23 1,122 21 2,129 63 500 00	
Coal mines investigation. Miners' and Mechanics' Institutes Total, Schedule 3	1,427 77	1,441 99 1,406 73 \$144,528 10		3.555 96 21 04 \$54,611 43	

SCHEDULE 37. STATEMENT OF THE ACCOUNTS FOR THE GRADUATE SCHOOL AS AT DEC. 31, 1915.

	Appropria- tions.	Disburse- ments,	Encum- brances.	Balances.
Salaries Fellowships and ScholarshipsAdministration Library—	\$ 8,100 00 22,200 00 1,900 00	\$3,930 00 8,910 00 509 43	\$ 4,170 00 13,290 00 21 90	\$1,368 67
Alvord. Blondheim. Fitz-Gerald,. Gillet Green. Loomis Moore.	1,500 00 150 00 400 00 250 00 75 00 150 00 150 00 300 00	819 08 2 90	93 50 145 07 100 30 50 90 	587 42 2 03 299 70 199 10 75 00 131 25 81 12 300 00
Noyes. Schoepperle Unassigned. Research— Balke Bayley.	170 00 355 00 500 00 200 00	230 00 17 15	50 89 115 45	270 00 67 40
Blondheim, Fairlie Forbes Kunz Loomis Municipal Research Bureau,	75 00 200 00 100 00 60 00 57 93 400 00	60 00 57 93	75 00 104 06 21 50	95 94 78 50 400 00
Savage. Shelford Stebbins. Stevens. Trelease. Washburn.	300 00 375 00 250 00 200 00 380 00 210 00	160 74 16 97 137 67 70 91 169 52	151 00 90 00 224 10	300 00 63 26 143 03 62 33 84 99 40 48
Zeleny. Unassigned. Illinois survey. Journal of English and German Philology Scandinavian Manuscripts. University Studies.	300 00 1,392 07 3,000 00 1,500 00 2,000 00 7,500 00	29 00 991 11 303 77 1,154 82	480 00 25 00 1,023 80	271 00 1,392 07 1,528 89 1,171 23 2,000 00 5,321 38
Total, Schedule 3	\$54,700 00	\$17,571 00	\$20,320 10	\$16,808 90

SCHEDULE 38.

STATEMENT OF THE ACCOUNTS FOR THE COLLEGES OF MEDICINE AND DENTISTRY
AS AT DEC. 31, 1915.

	Appropria- tions.	Disburse- ments.	Encum- brances.	Balances,
General— Salaries Administration Physical plant. Livestock Anatomy. Bacteriology. Chemistry. Pathology. Physiology Laboratory stores.		\$23,334 32 1,945 10 12,460 10 253 75 986 04 702 38 968 54 525 40 491 52 1,460 33	\$24, 824 68 320 42 108 15 12 95 938 11 	\$ 434 48 6,703 75 533 30 428 35 347 62 1,930 55 1,631 87 1,072 53 *2,043 60
Supervisor's stores		277 43 1,885 80	157 70	64 87 *1,885 80 1,500 00
Salaries. Administration. Dispensary Medicine. Obstetrics. Pharmcology. Research. Roentgenology. Surgery. Library.	24,290 00 6,055 00 3,000 00 2,000 00 2,200 00 3,786 51 1,835 00 1,100 00 2,400 00 5,500 00	11,076 08 4,130 63 1,148 33 198 71 949 10 2,475 60 402 44 201 23 227 01 2,403 58	13, 213 92 179 20 236 95 9 00 5 00 726 15 18 50 168 90 36 25 1,311 31	1,745 17 1,614 72 1,792 29 1,245 90 584 76 1,414 06 729 87 2,136 74 1,785 11
Dental— Salaries Administration Histology Infirmary. Materia Medica Operative Dentistry. Oral Surgery. Prosthetic Dentistry. Radiology Radiology Research Mortgage and interest and unassigned.	22,020 00 3,450 00 650 00 7,000 00 400 00 500 00 750 00 1,200 00 1,000 00 26,189 99	10, 358 07 1,838 23 179 35 4, 351 77 187 65 37 20 158 13 257 68 107 87 331 41 6,526 02	11,661 93 612 16 86 75 121 40 96 12 30 70 271 95 10 00 709 50 230 50	999 61 383 90 2,526 83 116 23 232 10 69 92 482 32 382 63 438 09 19,663 97
Outstanding— G-758, General Anatomy\$ 0 96		\$92,836 50		\$49,062 14
M-142, Medical salaries. 60 00 237. Medical salaries. 60 00 324, Medical salaries 60 00 (2-200, General salaries 5 00 259, General salaries. 5 00				
Total, Schedule 3	\$200,000 00	\$92,645 54	\$58, 101 36	\$49,253 10

^{*} Overdraft.

SCHEDULE 39.

STATEMENT OF THE ACCOUNTS FOR OTHER SCHOOLS AND DEPARTMENTS AS AT DEC. 31, 1915

Colleges and Schools.	Appropria- tions.	Disburse- ments.	Encum- brances.	Balances,
Salaries College of Commerce College of Law. School of Library Science School of Music. School of Pharmacy Law Library. Summer Session 915 Summer Session 1916. Water survey— Salaries. Traveling expenses. Supplies and miscellaneous. New Building equipment	3,300 00 1,175 00 1,860 00 13,580 00 5,000 00 23,838 55 25,000 00 15,000 00 3,651 31	\$46, 490 08 783 09 802 10 216 25 989 34 6, 224 18 1, 633 21 23, 712 48 2 25 5, 665 95 1,005 67 458 73	\$52,745 42 849 73 34 40 34 36 30 74 3,421 22 2,087 23 30 00 9,334 05	\$ 5, 122 18 2, 463 50 924 39 839 92 3, 934 60 1, 279 56 96 07 24, 997 75 2, 645 64 3, 479 80 1, 500 00

SCHEDULE 39--Concluded.

Colleges and schools.	Appropria- tions.	Disburse- ments.	Encum- brances.	Balances.
Water survey—Concluded. Sewage experiments University. Accountancy committee Summer Library School.	8,916 15 3,387 43	\$ 799 34 4,721 95 403 20 615 00	\$160 00 23 00	\$4,040 60 4,194 20 2,961 23 50 00
Total, Schedule 3	\$221,940 51	\$94,522 82	\$68,888 19	\$58,529 5

SCHEDULE 301.

TRUSTS FUND TRANSACTIONS AS AT DEC. 31, 1915.

	Balance July.	Receipts July— December.	Total receipts.	Disburse- ments July— December.	Balance Decem- ber 31.
	1	1			
Trust funds—				ļ	
B'nai B'rith Prize Fund			\$ 10 00		\$ 10 00
Bryan Prize	250 00		250 00		250 00
Class of 1895 Loan Fund—					
Interest		\$ 500	5 00		5 00
Principal	78	5 00	5 78		5 78
Graduate Club Loan Fund—				l .	
Principal	103 25		103 25	\$ 75 00	28 25
McKinley Loan Fund—				١.	
Interest		317 84	317 84	1,755 00	444 86
Principal	251 02	1,651 00	1,902 02	1, 100 00	444 00
Margaret Lange James Loan Fund-	i	1		ì	
Interest	52 79	146 29	199 08		. 199 08
Principal	2,763 20	2 00	2,765 20	2,750 00	15 20
Plym Fellowship—	1.		`		
Interest				20 96	*20 96
Principal	2,000 00		2,000 00	2,000 00	
Snyder Loan Fund—			l		′
Interest	28 19	284 57	312 76	300 00	12 76
Principal	642 17	1,309 18	1,951 35	1,725 00	226 35
Woman's League Loan Fund—				1	
Interest		3 46	3 46		3 46
Principal	18 83	300 00	318 83		318 83
Wilson Lectureship	100 00		100 00	100 00	
Trust deposits—					
Graduate School Theses	900 00	225 00	1,125 00	75 00	1,050 00
Keys	187 00	68 50	255 50	22 50	233 00
Military suits		5,231 40	5,231 40	1,735 70	3,495 70
Prof. S. W. Parr		757 00	1,086 45	968 55	117 90
Towel system	301 75	709 00	1,010 75	30 00	980 75
Total	\$7,938 43	\$11,015 24	\$18,953 67	\$11,577 71	שמי ממי ספ
Total	D1,938 43	D11,019 24	\$10,955 G1	ф11,577 71	\$7,375 96
	<u> </u>		l	1	

^{*} Overdraft.

SCHEDULE 302.

statement of the stores and transfer accounts as at dec. 31, 1915.

	Inventory	Purchases	Credits	Stock
	July 1, 1915.	Schedule 6.	Schedule 2.	on hand.
Office supplies Postage Physical plant stores Printograph Blueprinting and photography Labor. Total	536 13 13,361 56 180 00	\$ 2,715 38 5,536 70 48,995 38 195 36 2,217 48 77,269 20 \$136,929 50	\$ 1,979 71 4,553 51 18,282 05 123 03 2,012 15 42,921 70 \$69,872 15	\$ 2,953 63 1,519 32 44,074 89 72 33 385 33 37,539 39 \$86,544 89

SCHEDULE 4.

RECONCILIATION WITH UNIVERSITY TREASURER AS AT DEC. 31, 19 General fund—	15.	
Treasurer's balance Deduct: Trusts fund receipts	\$231,264 80	
Treasurer's corrected balance Deduct: Warrants outstanding—	\$231,183	
Managine of the contract of th	3,944	80
Business office corrected balance	\$227,239	
Business office balance	\$227,239	11
United States Agricultural Experiment Station Fund— Treasurer's balance Deduct: Warrants outstanding	\$2,324 188	48
Business office balance	\$2,136	01
College of Medicine Fund— Treasurer's balance Deduct: Warrants outstanding	\$133	75
Business office balance	\$000	.00
United States Smith-Lever Fund— Treasurer's balance	\$3,138 1,397	02 33
Business office balance	\$1,740	69
Trusts fund— Treasurer's balance	\$7,520 80	09 87
Treasurer's corrected balance	\$7.600	96
Business office balance	\$7,375	96

SCHEDULE 5.
RECONCILIATION WITH STATE AUDITOR AS AT DEC. 31, 1915.

	Auditor's	Deđi	10t.	Business
	balance.	1916-17 appropriations.	Unpaid vouchers.	office balance.
Buildings, land and equipment. Administrative offices. General departments Instruction Research Physical plant. Contingent Water survey Total.	120,004 55 169,756 29 1,814,671 71 167,390 93 366,768 15 489,933 74 22,271 85	\$ 463,500 00 80,855 00 118,450 00 1,319,945 00 103,000 00 231,750 00 259,629 05 7,250 00 \$2,584,379 05	\$ 1,915 08 410 14 854 45 20,115 83 1,993 36 246 29 1,115 39 973 66	\$172, 483 14 38, 739 41 50, 451 84 474, 610 88 62, 397 57 134, 771 86 229, 189 30 14, 048 19

SCHEDULE 6. DISBURSEMENT RECONCILIATION DEC. 31, 1915.

	Schedule 31 land and buildings.	Schedule 32 physical plant.	Schedule 33 adminis- tration and general.	IIDGIAI	Schedule 35 agri- culture.
Funds— University and Federal— General.	\$ 36,276 O4	\$ 1.722 51	\$18,676.82	\$ 3,646 23	\$ 36,821 82
United States Agricultural Ex- periment Station United States Smith-Lever					13,768 57
State— Buildings, land and equipment Administration offices General departments	262,026 78	577 35	8 16 37, 405 59	EE1 OF	
Instruction			7,880 48	224, 334 19	253,665 20
Physical plant. Contingent expenses. Water survey and investigation. Miners and mechanics institutes			8,965 69		
Total			\$133,284 79		\$321,558 48

SCHEDULE 6-Concluded.

	Schedule 36 engi- neering.	Schedule 37 graduate school.	Schedule 38 medicine and dentistry.	Schedule 39 mis- cellaneous.	Schedule 3 fund totals.
Funds— University and Federal— General. United States Agricultural Experiment Station. United States Smith-Lever. State— Buildings, land and equipment. Administration offices. General departments. Instruction. Research. Physical plant. Contingent expenses. Water survey and investigation. Miners and mechanics institutes	20 121,840 46 17,085 27 1,038 12	43 98 17,517 16	80,924 87 3,276 06	89 96 79,732 44 1,177 84 7,929 69	\$*114,401 06 13,768 57 16,400 41 *263,474 77 37,405 59 61,098 16,098 16,098 14,602 34,602 41 11,181 65 7,929 69 1,353 77 \$11,413,486 96

^{*} Does not include stores.

Trusts, Schedule 301 Stores, Schedule 302—	ì	
From General Fund. From buildings, land and equipment. From physical plant From instruction.	542 09 28 90	†136, 929 50
Grand total disbursements, Schedule 1		

SCHEDULE 7.

OPERATING BALANCE SHEET, FISCAL YEAR ENDING JUNE 30, 1916, AS AT Assets.	DEC. 31, 19	15.
Cash— University Treasurer, schedule 1 (Not including Trusts Fund) Petty cash, schedule 1	\$231,115 5,550	81 00
•	\$236,665	81
Revenues receivable— From United States Treasurer From State Auditor— 1915-16 appropriations, schedule 1 Interest on endowment	\$ 33,140 1,185,942 16,176	19
From current receipts (estimated)	101,232	
	\$1,336,492	66
Inventory of expendable supplies— Schedule 302	\$86,544	89
	\$1,659,703	36
Liabilities.		
Appropriation accounts— Free balances, schedule 3 Oustanding encumbrances, schedule 3	\$ 577,025 1,102,295	$\begin{smallmatrix} 96\\61\end{smallmatrix}$
Unexpended balances	\$1,679,321	57
Deduct: Amount credited to appropriation accounts in excess of income	39,105	75
~ ·	\$1,640,215	82
Surplus— On account of expendable supplies, schedule 302	19,487	54
	\$1,659,703	36

REGISTRAR'S REPORT OF FEES, SUMMER, 1915.

The Secretary presented also for record the Registrar's report of fees payable for the Summer Session of 1915.

payable for the Summer Session of 1915.			
Matriculation Fees—	Gross.	Refund.	Net total.
15 @ \$10	\$150 00		\$150 00
Incidental Fees—	44.404.00		
558 @ \$12		\$612 00	\$6,084 00
37 @ \$6 (one-half)	222 00	78 00	
Refund 2 @ \$3		6 00	138 00
Total, incidental fees	\$6,918 00	\$696 00	\$6,222 00
Laboratory Fees— Botany	80 50	0 25	80 25
Chemistry	1.294 00	94 00	1,200 00
Entomology	50 50	2 00	48 50
General engineering drawing	5 00	1 00	4 00
Household science	26 00	2 00	24 00
Manual training	148 50	7 00	141 50
Physics	60 00	$5 \ 25$	54 75
Theoretical and applied mechanics	17 00	3 00	14 00
Zoology	52 00	8 00	44 00
Total, laboratory fees	\$1,733 50	\$122 50	\$1,611 00
2 @ \$7.50	15 00		
Refund 1 @ \$7.50	• • • • • • • •	7 50	7 50
Change Fees— 8 @ \$1			
Refund 7 @ \$1	• • • • • • • •	7 00	1 00
Special Examination Fees— 29 @ \$5	145 00	•••••	145 00
Total, special fees	\$168 00	\$14'50	\$153 50
Total, fees	\$8,969 50	\$833 00	\$8,136 50

APPOINTMENTS TO FILL VACANCIES.

The Secretary presented also for record the following list of appointments made by President James:

Baker, H. T., Instructor in English, for five months beginning February 1, 1916, at a salary of one hundred twenty dollars (\$120) a month. (February 1, 1916.)*

Bixby, Madeline, Assistant Chemist in the State Water Survey, at a salary of sixty dollars (\$60) a month, beginning as soon as she reports for duty and continuing not longer than until August 1, 1916. (February 5, 1916.)

Craig, Florence M., Loan Assistant in the Library, on one-third time, at a salary of twenty-one dollars and sixty-six cents (\$21.66) a month, beginning February 14, 1916, and ending June 15, 1916. (February 5, 1916.)

Cuerdon, Fay, Stenographer in the Department of Animal Husbandry, at a salary of fifty dollars (\$50) a month, beginning February 1, 1916, and continuing until further notice, subject to the rules of the Civil Service Commission. (January 27, 1916.)

Curtiss, George, Assistant in Militery Science for fire the civil service.

Curtiss, George, Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Emmett, A. D., Assistant Chief in Animal Nutrition in the Agricultural Experiment Station for twelve months beginning September 1, 1915, at a salary of two thousand dollars (\$2,000) a year. (January 25, 1916.)

French, H. E., Graduate Assistant in Chemistry, for five months beginning February 1, 1916, at a salary of thirty dollars (\$30) a month. (January 29, 1916.)

Graham, A. J., in charge of the Course in Operative Surgery given to the Sophomore Class in the second semester of the current academic year, without salary. (January 27, 1916.)

Gross, C. R., Assistant in Bacteriology for five months beginning February 1, 1916, at a salary of sixty dollars (\$60) a month. (January 27, 1916.)

Hathorne, W. S., Student Assistant in Chemistry, for six months beginning January 1, 1916, at a salary of ten dollars (\$10) a month. (January 29, 1916.)

Hultman, O. N., Student Assistant in Chemistry, for five months beginning February 1, 1916, at a salary of ten dollars (\$10) a month. (January 29, 1916.)

Johnson, L. C., Instructor in Chemistry, for five months beginning February 1, 1916, at a salary of ne hundred twenty dollars (\$120) a month. (January 27, 1916.)

Kasten, W. H., Assistant in Military Science for five months, beginning February 1, 1016.

Kasten, W. H., Assistant in Military Science for five months, beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Lamkins, L. E., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Langelier, W. F., Assistant in Sanitary Chemistry, for six months beginning January 1, 1916, without salary. (January 29, 1916.)

Little, R. F., Lecturer on Elementary Law in the College of Commerce and Business Administration, for five months beginning February 1, 1916, at a salary of fifty dollars (\$50) a month. (January 27, 1916.)

McCumber, C. W., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

1916.)

Mason, R. S., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Miller, D. E., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Norton, Bertha L., Clerk in the Library, at a salary of forty dollars (\$40) a month, beginning January 17, 1916, and continuing until August 31, 1916, subject to the rules of the Civil Service Commission. (January 29, 1916.)

Pittinger, B. F., Lecturer on Education, for five months beginning February 1, 1916, at a salary of two hundred forty dollars (\$240) a month. (January 25, 1916.)

Robinson, R. E., Instructor in Mechanical Engineering, from February 7, 1916, to June 30, 1916, with salary at the rate of one hundred twenty dollars (\$120) a month. (February 2, 1916.)

Rumry, Florence, Typist in the Department of Pharmacology of the College of Medicine, at a salary of forty dollars (\$40) a month, beginning January 1, 1916, and continuing until further notice, subject to the rules of the Civil Service Commission. (January 11, 1916.)

Shelby, Edwin, Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Steinmayer, R. A. J., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Taylor, N. O., Student Assistant in Chemistry, for five months beginning February 1, 1916, at a salary of ten dollars (\$10) a month. (January 26, 1916.)

Thomas, R. R., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Troster, O. J., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

Tyacke, Dorothy, Secretary to the State Leader of County Demonstration Work, at a salary of seventy-five dollars (\$75) a month, beginning November 1, 1915, and continuing until further notice. (January 17, 1916.)

Van Natter, F. M., Assistant in Military Science, for five months beginning February 1, 1916, at a salary of twenty dollars (\$20) a month. (February 4, 1916.)

^{*} The date in parenthesis is the date on which the appointment was made by the President of the University-

Whitecarver, R. L., Stenographer in the Department of Military Science, at a salary of fifty dollars (\$50) a month, beginning January 13, 1916, and continuing until further notice, subject to the rules of the Civil Service Commission. (January 22, 1916.)

W. L. Abbott, President.

H. E. CUNNINGHAM, Secretary.