

**The University of Minnesota**  
**BUILDINGS AND GROUNDS COMMITTEE**  
**MINUTES**

**February 6, 1922**

A meeting of the Buildings and Grounds Committee of the Board of Regents was held in the President's office on Monday, February 6, 1922, at three o'clock.

Present: Regent Partridge, chairman; Regents Coffman, Snyder, and Sommers.

A delegation representing certain alumni and the College of Engineering was granted a hearing on the location and allotment for the electrical engineering building. Voted that the consulting architect be asked to prepare a preliminary study of the plans for the location of the electrical engineering building north of the main engineering building.

Representatives of the State Highway Commissioner presented a request that the University build a laboratory for state highway experimental work.

Voted to refer to the President and Regent Partridge the request of the State Highway Commissioner in order that a plan may be worked out for coöperation whereby the University would furnish a site for a laboratory to be constructed with funds provided by the Commissioner of Highways.

Voted to approve the enlargement of the lantern room in the new music building to provide sufficient space for two lanterns.

Voted to approve an extra of \$915 for additional lighting facilities for the new music building.

Voted to adjourn.

A. J. LOBB, Secretary

**The University of Minnesota**  
**AGRICULTURAL COMMITTEE**

**MINUTES**

**February 13, 1922**

A meeting of the Agricultural Committee was held in the President's office on Monday, February 13, 1922, at eight-thirty o'clock.

Present: Regent J. G. Williams, chairman pro tem; Regents Coffman, Glotfelter, McConnell, Mayo, Potter, Snyder, and Sommers.

Voted to accept the following resignations:

L. J. Cook, Clinical Assistant, Division of Veterinary Medicine, effective January 15, 1922.

Belinda Engdahl, Clerk in the Division of Agricultural Extension, effective January 15, 1922.

Voted to approve the following appointments:

Ralph C. Crim as Extension Specialist in Agronomy, with the rank of Assistant Professor, beginning February 15, 1922, at the rate of \$3,000 per year, Class A.

Alexander Johnson as short course Instructor in Beginners' Dairy Short Course, from January 16 to 30, 1922, at \$7 per day, Class CH.

Marc C. Leager as Instructor giving vestibule instruction in elevator accounting, Division of Agricultural Economics, from January 1 to March 31, 1922, at \$100 per month, Class CH.

Clarence E. Mickel as Assistant in Economic Entomology with the rank of Instructor, beginning March 1, 1922, at the rate of \$1,400 per year, Class AH.

Ralph C. Miller as Instructor in Grain Grading for special vestibule students in the School of Agriculture from January 16 to March 25, 1922, at \$100 per month, Class CH.

Percy B. Barker as special vestibule Instructor in Cereal Crops, School of Agriculture, from January 16 to March 25, 1922, at \$30 per month, Class CH.

Continuation of the appointment of Mabel Willson as Instructor in Piano, School of Agriculture, from January 1 to April 1, 1922, at \$150 per month, Class C.

Carl G. Aamodt as Assistant in the Poultry Division from February 1 to March 31, 1922, at \$100 per month, Class C.

Howard Magladry as Assistant in the School of Agriculture teaching class in farm arithmetic from January 13 to March 25, 1922, at \$3 per week, Class CH.

Ruth A. Herr as Assistant in Mathematics in the School of Agriculture from January 12 to March 25, 1922, at \$12 per week, Class CH.

Sven Norling as Assistant in Soils from February 1 to March 31, 1922, at \$125 per month, Class C.

John W. Phillips as Draughtsman in the Division of Agronomy and Farm Management, from February 1 to May 31, 1922, at \$90 per month, Class C.

Marion Ellen Solstad as Clerk in the Division of Agricultural Extension, beginning January 23, 1922, at the rate of \$900 per year, Class A, C 6.

Continuation of the appointment of Mabel Thorson as Clerical Assistant at the Northwest School and Station from January 1 to April 1, 1922, at the same rate, \$70 per month, Class C.

Genevieve J. Lifson as Stenographer in the Division of Horticulture, beginning January 17, 1922, at 50 cents per hour, Class CH.

Reuben M. Pinckney as Research Assistant in Soils, from March 1 to June 30, 1922, at \$62.50 per month, Class CH.

Voted to approve the following leaves of absence:

P. R. McMiller, Assistant Chemist in the Division of Soils, from May 15 to June 30, 1922, without pay, to take charge of soil survey in the classification of undeveloped lands for the State Department of Agriculture.

F. L. Washburn, Professor of Zoology, sabbatical leave from October 1, 1922, to April 1, 1923, to collect laboratory material in certain islands of Polynesia.

Voted to approve the following trips outside of the State:

F. J. Alway to Jackson, Lansing and Bay City, Michigan; and Stroh and Lafayette, Indiana, to secure information regarding the handling of marl, from January 30 to February 5, 1922. Expenses not to exceed \$100 to be charged to Budget 188.

J. G. Leach to Madison, Wisconsin, to look over soil temperature control apparatus on January 22, 1922. Expenses not to exceed \$35 to be charged to Budget 179.

W. H. Peters to Montevideo, Minnesota; Tabor, South Dakota; Ogden, Ankeny and Keota, Iowa; and Champaign, Illinois, to inspect and purchase livestock needed by the Division of Animal Husbandry from January 24 to February 4, 1922. Expenses not to exceed \$100 to be charged to Budget 160.

Voted to accept with thanks \$250 raised by the Girls' Christmas Bazaar at Morris to be used for purchasing furniture for the dormitory parlor at the West Central School and Station.

Voted to adjourn.

A. J. LOBB, Secretary

**The University of Minnesota****BOARD OF REGENTS****MINUTES****February 13, 1922**

A meeting of the Board of Regents was held in the President's office on Monday, February 13, 1922, at ten o'clock.

Present: Regent Snyder, presiding; Regents Coffman, Glotfelter, McConnell, Mayo, Potter, Preus, Snyder, Sommers, and Williams, J. G.

Voted to approve the minutes of the Agricultural Committee of January 13, 1922, the minutes of the Board of Regents of January 13, 1922, and the minutes of the Buildings and Grounds Committee of February 6, 1922.

Voted to approve the report of the Agricultural Committee of February 13, 1922.

Voted to approve the following budget amendments:

Payroll item 49, Section XII, from Instructor, Class BH, \$1200 to Instructor, Class B, \$2200.

Payroll item 398, Section V, from B to C classification.

Payroll item 16, Section XV, from Instructor, Class B, \$2200 to Instructor, Class A, \$2000.

Payroll item 17, Section XV, from Instructor, Class B, \$2400 to Lecturer, Class B, \$3000.

Payroll item 6, Section XIII, from Assistant Professor in charge of Visual Instruction Class B, \$1500 to Assistant in charge of Visual Instruction, Class DH, \$1000.

Voted to accept the following resignations:

Mildred K. Barrett, Clerk in the Department of Correspondence Study, General Extension Division, effective January 31, 1922.

William A. Benitt, Library Page, Law Library, effective December 31, 1921.

Sidney Bowers, Teaching Fellow, Department of Pediatrics, effective January 1, 1922.

Fred L. Bregel, Teaching Fellow in Medicine, effective January 16, 1922.

Eugene Burdick, Desk Assistant in Law Library, effective December 31, 1921.

Lulu Casselman, Nurse, Health Service, University Farm, effective January 15, 1922.

Leona Fanning, Post-Office Clerk, effective February 1, 1922,

Sophia Hall, Librarian in Municipal Reference Bureau, effective February 15, 1922.

Adolph Holm as Desk Assistant, Law Library, effective December 31, 1921.

Otto Ramstad, Lyceum Solicitor, General Extension Division, effective January 29, 1922.

Grace E. Stout, Stenographer in the Department of Obstetrics and Gynecology, effective February 1, 1922.

Mrs. Sara Van Dusen, Head of the Correspondence Study Department, General Extension Division, effective February 15, 1922.

Pearl McIver, Visiting Nurse, University Hospital, effective February 1, 1922.

Voted to approve the following appointments:

F. W. Luchring as Director of the Department of Physical Education and Athletics, with rank of Professor, beginning March 1, 1922, at the rate of \$7000 per year, Class A, \$3000 to be paid by the University.

L. J. Cooke as Assistant Director of the Department of Physical Education and Athletics, beginning March 1, 1922, salary and rank to be fixed later.

W. H. Spaulding as Head Football Coach for three years, beginning February 20, 1922, at a salary of \$6500 the first year, and \$6750 each of the next two years, Class A, to be paid from funds of the Athletic Association.

T. Nelson Metcalf as Professor of Physical Education, beginning September 15, 1922, at \$5000, Class B, to be paid in part from the funds of the Athletic Association.

C. L. Conley as Instructor in one or more evening extension classes in Business English for one semester of 17 weeks, beginning January 30, 1922, at \$150 per class.

Mrs. Wilma A. Gilman as Instructor in Theory and Practice in Music, College of Education, from April 1 to June 15, 1922, at \$400 for the period, Class CH.

John Franklin Noble as Pathologist at the University Hospital with the rank of Instructor, beginning February 1, 1922, at the rate of \$3000 per year, Class A.

Clayton Madison Reasoner as Instructor in the Department of Metallography, School of Mines, beginning February 1, 1922, at the rate of \$1800 per year, Class B.

Neil W. Upham as Instructor in Money and Banking, General Extension Division, for one semester of 17 weeks, beginning January 30, 1922, at the rate of \$125 per class.

The following members of the University staff as Instructors in the General Extension Division:

Winnifred Bailey as Instructor in Swimming for one semester of 21 weeks, beginning January 16, 1922, at \$81.90 for the period.

Arthur P. Bouvier as Instructor in sub-freshman Rhetoric from January 3 to March 23, 1922, at \$150 for 12 weeks.

G. P. Conger as Instructor in one or more classes for one semester, beginning February 1, 1922, at \$225 per class.

Mrs. Frances K. Del Plaine as Instructor in sub-freshman Rhetoric from January 3 to March 23, 1922, at \$150 for 12 weeks.

D. C. Mitchell as Instructor in class in Gymnasium for one semester, beginning February 1, 1922, at \$125 per class.

Helen M. Scurr as Instructor in sub-freshman Rhetoric from January 3 to March 23, 1922, at \$150 for the period.

M. W. Tyler as Instructor for one semester, beginning February 1, 1922, at \$250 per class.

Victor Allen as Assistant in Geology, College of Science, Literature, and the Arts, from January 16 to April 1, 1922, at \$150 for the period, Class CH.

Jacob Henry Bendes as Assistant in Department of Medicine, for instruction of students and internes in tuberculosis at Glen Lake Sanatorium, beginning February 1, 1922, without salary, Class AH.

Joseph Frederick Bicek as Fellow in Obstetrics and Gynecology, beginning December 15, 1921, at \$420 per year and maintenance at Miller Hospital, Class A.

Louis A. Fried as Laboratory Assistant in the Department of Animal Biology, from January 18 to June 15, 1922, at \$225 for the period, Class CH.

Fred John Geyerman as Scholar in Political Science Department, from January 23 to June 15, 1922, at the rate of \$25 per month, Class CH.

Agnes Haedecke as Matron and Assistant in charge of extension class in Swimming for one semester of 21 weeks, beginning January 16, 1922, at \$30 for the period.

Hymen Shalit Lippman as Teaching Fellow, Department of Pediatrics, beginning January 1, 1922, at the rate of \$450 a year with maintenance at the Minneapolis General Hospital, Class A.

Rebecca Maybelle Pond as Social Service Worker, University Hospital, beginning February 1, 1922, at the rate of \$1380 per year, Class A.

Continuation of the appointment of Lawrence Anderson as Office Boy in the General Extension Division, from February 1 to June 30, 1922, at \$4 per month, Class CH.

Blanche A. Bailey as Nurse in the Health Service, University Farm, from January 13 to April 1, 1922, at \$90 per month, Class C.

William A. Benitt as Desk Assistant in the Law Library from January 1 to June 13, 1922, at \$60 for the period, \$30 to be paid at the end of each quarter, Class CH.

Edith Brocker as Stock Room Clerk in Chemistry, General Extension Division, for ten weeks, beginning January 3, 1922, at \$20 for the period.

by which the total cost to the University would be reduced from \$750,000.00 to \$686,000.00; and that such change would require a modification of the contract authorized by the Resolution of this Board adopted on the 12th day of May, 1921, as amended by the Resolution and adopted on the 13th day of December, 1921, and

Whereas, the President presented a draft for a contract embodying the necessary changes and reducing the total amount to be paid by the University from \$750,000.00 to \$686,000.00, and also providing among other things, that the Northern Pacific Railway Company reimburse the University for the expense involved in changing the location of the mines experiment building; and that the Northern Pacific Railway Company construct and maintain a bridge over its new line for the purpose of furnishing access to the heating plant, which draft is filed with the Secretary of the Board and identified by the signature of the President, and

Whereas, The President has recommended the execution of such modified contract, and the Board after full consideration, has found the changes from the former draft to be necessary and proper.

Resolved, Therefore, that the President and Secretary of this Board, are hereby authorized to enter into and execute the contract as so modified, on behalf of the University, and to attach the corporate seal of the University thereto.

#### **Contract for the Removal of the Existing Northern Pacific Tracks through the Campus**

Agreement made this 13th day of February, 1922, between the Northern Pacific Railway Company, a corporation organized under the laws of the State of Wisconsin (hereinafter called the "Northern Pacific"), and the University of Minnesota, a corporation organized under the laws of the State of Minnesota (hereinafter called the "University"):

The Northern Pacific is the owner of certain lands and rights of way, over which it has constructed and now operates its main double track line, and which are within the following described boundaries in the City of Minneapolis, in the County of Hennepin and State of Minnesota, to wit:

"That tract of land bounded on the north by the center line of Arlington Street, on the east by the center line of Oak Street, on the south by the south line of lot four (4) in block nine (9) and the south line of lots four (4) and seven (7) in each of blocks ten (10), eleven (11), twelve (12), thirteen (13), fourteen (14), fifteen (15) and sixteen (16) of St. Anthony City; on the west by the Mississippi River; according to the plat of St. Anthony City on file and of record in the office of the Register of Deeds of said County of Hennepin"

and which lands and rights of way are hereinafter for convenience called the "Right of Way"; and

The Northern Pacific, through its subsidiary corporation Northwestern Improvement Company, owns the following described lots in said Plat of St. Anthony City, in Hennepin County, to wit:

"Lots nine (9) and ten (10) in block two (2); lots three (3) and eight (8), and the easterly half of lots one (1) and two (2) in block fourteen (14); and lots eight (8), nine (9) and ten (10) in block fifteen (15) of said St. Anthony City"

which lands are hereinafter for convenience called the "additional lands"; and

By an act of the Legislature, approved on the twentieth day of April, 1921, to wit, Chapter 400, Laws of Minnesota 1921, the University has been authorized to enter into a contract, or contracts, with the Northern Pacific, its mortgagees and lessees, for the purchase of all the aforesaid rights of way and additional lands, and has also been authorized by said Act, as a part of the consideration, to convey to the Northern Pacific a right of way for railway purposes through the campus of the University, from University avenue to the Mississippi River, adjoining and adjacent to the present right of way of the Great Northern Railway Company, where the latter right of way is now located westerly of University avenue from a point in University avenue, between Thirteenth avenue southeast and Fourteenth avenue southeast, in the City of Minneapolis; and

The University has, since the passage of the said Act, acquired as a site for the business buildings, store house and shops of the University, with suitable railroad connection, the following tract of land situated in the County of Hennepin and State of Minnesota, to wit:

"All that part of block D of Tuttle's Addition to St. Anthony which lies south of the present railroad lands, rights of way and tracks through said block D, according to the plat of said Addition, on file and of record in the office of the Register of Deeds of said Hennepin County, except the front ninety-five feet of lots nine (9) and ten (10) in said block D"

which lands are hereinafter referred to as the "shop site"; and the railroad lands and rights of way and tracks crossing said block D are an extension of and part of the lands and right of way of the Great Northern Railway Company above referred to and that part of lot six (6) in said block D owned by the University is covered by a substantial, permanent and valuable building known as the Wilson Building; and

The Northern Pacific is a public common carrier using the right of way above described as part of an extensive system of railroads for the public use, and cannot surrender full possession to the University of the said right of way until provision has been made for a new route for its railway which will embrace a right of way contiguous or adjacent to the right of way of the Great Northern Railway Company aforesaid and across the northwesterly corner of the University campus; and acquisition of the



necessary rights of way and construction of the new line of railway will require considerable time;

Now, in consideration of the premises, and in pursuance of the powers granted by the Act of the Legislature aforesaid, it is agreed:

#### I.

The Northern Pacific will procure a release of said right of way from every mortgage or deed of trust heretofore made by the Northern Pacific or by the said St. Paul & Northern Pacific Railway Company, its predecessor in title, and will grant and convey to the University the said "right of way" by good and sufficient deed, and by such deed will covenant to warrant and defend the title to such right of way against the lawful claims of all persons and corporations claiming by, through or under the Northern Pacific and its predecessor in title, St. Paul & Northern Pacific Railway Company. Said deed of conveyance to the University shall, in addition, contain full covenants of warranty of title to the following described lands embraced in such right of way, to wit:

"Lots four (4), five (5), six (6) and seven (7) in block ten (10); lots four (4), five (5), six (6) and seven (7) in block eleven (11); lots four (4), five (5), six (6) and seven (7) in block twelve (12); lot seven (7) in block fourteen (14) and lot four (4) in block fifteen (15) of said St. Anthony City"

including the adjacent half of streets as originally platted, and whether such streets are vacated or not.

#### II.

The Northern Pacific will proceed diligently to acquire the necessary rights of way and other rights necessary for its new tracks and for connecting them up with its main line, and will complete such acquisition and construction not later than December 31, 1923, and will thereupon execute the deed of the Northern Pacific right of way to the University in accordance with paragraph I. It will thereupon remove from the right of way its tracks, structures and property, and will remove the bridge crossing the Mississippi river which it uses at present in connection with said tracks, including removal to low water or ground level of the two river piers of said present bridge.

#### III.

The Northern Pacific forthwith will convey, or cause to be conveyed to the University, by good and sufficient warranty deed, the lands above described as additional lands.

#### IV.

The University will grant and convey to the Northern Pacific a perpetual right of way for railway purposes through the University campus thirty-four feet in width and across the shop site twenty-six and two-tenths feet in width; a map or plat of

which right of way so to be granted and conveyed by the University to the Northern Pacific is hereto attached and marked "Exhibit A" and made a part of this agreement.

#### V.

The University will pay to the Northern Pacific the sum of six hundred eighty-six thousand dollars (\$686,000.00), subject to the contingent offset described in paragraph VI. hereof. Payments shall be made as follows, to wit:

1. The sum of two hundred and twenty-nine thousand dollars (\$229,000.00) on the first day of July, 1922, and upon the certificate of the Chief Engineer of the Northern Pacific that it has expended in carrying out this agreement one-third of the total sum which the Northern Pacific will find it necessary to expend in fully carrying out the agreement.

2. The sum of two hundred and twenty-nine thousand dollars (\$229,000.00) on the first day of July, 1923, and upon the certificate of the Chief Engineer of the Northern Pacific that it has expended in the aggregate two-thirds of the total sum which the Northern Pacific will find it necessary to expend in fully carrying out the agreement.

3. The remainder, two hundred and twenty-eight thousand dollars (\$228,000.00), (subject to such contingent offset) upon the certificate of the Chief Engineer of the Northern Pacific that the construction work covered by this agreement has been completed.

#### VI.

The contingent offset referred to is the following:

In reconnecting its right of way, the Northern Pacific will be required to make a new and additional crossing over Oak street in the City of Minneapolis, and may be required by lawful authority to separate grades at Oak street and construct a bridge or viaduct to carry Oak street over its tracks. The expense of such overhead bridge to the Northern Pacific has been estimated at one hundred four thousand three hundred dollars (\$104,300.00). Said estimated expense of one hundred four thousand three hundred dollars (\$104,300.00) shall be deducted from the third payment of two hundred twenty-eight thousand dollars (\$228,000.00) above provided for, unless the Northern Pacific shall be actually required to incur, and shall incur, the expense of such overhead crossing. But if the Northern Pacific at any time thereafter shall be required by lawful authority so to separate grades at Oak Street, then the University shall pay said sum of one hundred four thousand three hundred dollars (\$104,300.00) to the Northern Pacific.

#### VII.

The Northern Pacific will pay to the University the sum of seventy thousand dollars (\$70,000.00) to reimburse it for the cost of the lands in Block D of Tuttle's Addition to St. Anthony, which will be used by the Northern Pacific under the terms of this agreement.

## VIII.

The Northern Pacific at its own expense will construct and maintain a suitable bridge equal in capacity to the present bridge over its tracks at Church Street, across its new tracks, the easterly line of which bridge shall be approximately five hundred fifty feet westerly from University avenue as measured along the southerly boundary line of the right of way to be conveyed by the University to the Northern Pacific. The Northern Pacific will also grade a suitable approach to the northerly end of the bridge.

The Northern Pacific is to have the privilege of sloping back the cuts within the shop site, and cuts and embankments within the campus easterly of the bridge above mentioned, as may be necessary to secure stability, without payment to the University for property occupied by slopes, and without securing title or any claim to property thus occupied.

The Northern Pacific at its own expense will put in and maintain a spur track approximately two hundred twenty-five feet in length to serve the Mines experiment building, mentioned below; and will construct and maintain at its own expense a sufficient retaining wall along the southerly clearance line of its tracks from the easterly line of the Mines Experiment building projected, to bridge above provided for, so as to preserve to the University the full use of its land in that section of the campus. Back fill of this wall if required will be done by the University.

No retaining walls except as above stated are to be constructed, except such walls as are necessary for the support of the street on the bridge approach on Fifteenth avenue and Fourteenth avenue. If the University desires to occupy the wing walls of these supports with its buildings, it will assume such additional cost as this occupancy may cause the Northern Pacific to incur.

The University will pay the entire cost of constructing such spur tracks as it may desire for serving its storage building on the shop site. In addition to the amount, that Northern Pacific will pay for the lands in Block "D" of Tuttle's Addition as aforesaid, the Northern Pacific will assume the entire cost of demolishing the Wilson building, and if it becomes necessary to purchase the leasehold interest of the present lessee, the Northern Pacific will pay to the University the cost to it of making such purchase. Salvage from the building demolished will become the property of the Northern Pacific.

If the University desires the Northern Pacific to excavate within the shop site beyond the amount required to secure a stable slope, the Northern Pacific will do this work for the University at actual cost.

## IX.

The University will relocate its proposed Mines Experiment building, moving same south the amount necessary to provide clearance for the proposed main line and spur track of the Northern Pacific, a distance of approximately eighty-six feet. The

Northern Pacific will reimburse the University for all additional expenditures incurred in the construction of the building by reason of change in location. The additional excavation, concrete and other material required by reason of this change will be determined by joint check of the engineers of the University and the Northern Pacific, and the University will pay its contractor at the established unit prices carried in his contract for this extra excavation and material, and will deduct the amount of these payments from the first payment to be made by the University to the Northern Pacific under Section V. of this contract.

The proposed new location of said building will necessitate moving the present temporary building used by the Bureau of Mines, and cutting into and temporarily bulkheading the north-east corner of the brick Mine Building. The expense of moving the temporary building, and of the temporary changes in the brick building, will be borne by the Northern Pacific.

The Northern Pacific at its own expense will provide an additional side track cutting out of the existing coal bunker track of the University, and running parallel therewith to the end of the existing coal bunker at approximately the intersection with the northerly right of way line of the proposed new tracks of the Northern Pacific. Substantial bumpers will be erected at the ends of the existing coal bunker track and of the additional track to be constructed.

IN WITNESS WHEREOF the parties hereto have caused this agreement to be executed under their respective corporate seals and under the hands of their respective presidents and secretaries, or vice presidents and assistant secretaries, the day and year above written.

NORTHERN PACIFIC RAILWAY COMPANY

by CHARLES DONNELLY,  
President.

Attest: R. H. RELF,  
Assistant Secretary.

THE UNIVERSITY OF MINNESOTA

by FRED B. SNYDER,  
President.

Attest: ALBERT J. LOBB,  
Secretary.

The following statement concerning the high dam was received from Regent Snyder, representative of the Board of Regents in the Municipal Electric Company, and laid over for consideration at the April meeting:

*To the Honorable Board of Regents,—  
Gentlemen:—*

In 1910 a Board of the United States Army Engineers reported in favor of the construction of a high dam in the Mississippi River near the Soldiers' Home and suggested that the cities of Minneapolis and St. Paul should cooperate and acquire the power for public use.

The Board of Engineers for Rivers and Harbors concurred in the recommendations and the Chief of Engineers recommended that negotiations be entered into whereby the cities of Minneapolis and St. Paul should become lessees of the surplus power that might be created.

In the River and Harbor Act of 1910 Congress adopted the project as recommended by the Chief of Engineers with the proviso "that in the making of leases for water power a reasonable compensation shall be secured to the United States and the rates as fixed shall be subject to revision by Congress."

At the next session of the Legislature of Minnesota a Bill was passed permitting the formation of public corporations for the purpose of developing water power. Under this Act the Municipal Electric Company, composed of the University of Minnesota and the cities of Minneapolis and St. Paul, was formed.

This corporation subsequently made application to the Federal Government for a license on the water power. The application was denied on the ground that until new legislation was passed by Congress the secretary of war was without power to act.

Subsequently Congress passed an Act by which Municipalities in the vicinity of a water power developed by the Government should have the preference in obtaining a lease of the rights.

The State law which authorized the creation of the Municipal Electric Company was defective in that it made no provisions for financing the project. At the last session of the Legislature a Bill was introduced to supply this defect. The Bill was defeated.

The Federal Government called for bids for the power in the spring of 1921. St. Paul assumed that the Municipal Electric Company was without power to function, and without consulting either the University or the City of Minneapolis, put in an application for the power for its own use. It declined to join with the University and the City of Minneapolis in making an application in the name of the Municipal Electric Company which could be done only with the assent of the three parties. Minneapolis then presented a separate application in its own behalf. The University having no power to act without legislative authority, made no application. An application was also presented by the Northern States Power Company. The Federal Power Commission, to whom these applications were presented, granted hearings to the parties and, after the parties had been heard and the subject considered, entered its order postponing a decision on the merits until the State of Minnesota and the cities of Minneapolis and St. Paul could have time to reach an agreement, if possible, and until the Legislature convening in January 1923 could consider the subject.

It seems proper for the member of this Board, who sits as its representative in the Municipal Electric Company, to report his views upon the situation and make such recommendations as are in his judgment best for the interests of the public.

He feels free to do this without first conferring with the representatives of either of the cities since St. Paul has already declined to act with the other members of the Municipal Electric Company, and has announced its determination to obtain the power for itself, if possible.

There are objections to the University of Minnesota acting with the two cities in seeking the use and control of this power. The first is that the University should never entangle itself in any problems which in the end will tend to enmesh it in political discord. The cities themselves are in controversy. A private corporation, with large political influence, is seeking the power. The State should avoid the entanglement. Next to the Federal Government the State has the first right to the power. The State should act independently of all others. The second is that the State of Minnesota has problems of its own so vast and far reaching for the good of the people that, if it can be shown the power has real value to all the people, then the State should alone, and not in conjunction with anyone else, acquire and control it.

There are many problems related to the development of the State and the advancement of its commercial, industrial, agricultural and civic life which can be well served by the State taking over this power, developing it and using it in the manner and for the purposes hereinafter specified. These problems may be summarized as follows:—

- (1) Improvements looking to the higher efficiency of methods of fixing atmospheric nitrogen and the manufacture therefrom of artificial fertilizers and various other products;
- (2) Smelting of iron and steel from the ore;
- (3) Refining of steel and development of new steels;
- (4) Purification of city water supplies;
- (5) Inoculation of sewage;
- (6) Reconstruction of native stones into more valuable materials;
- (7) Development of new artificial material for highways or pavements;
- (8) Extraction of aluminum from common clay;
- (9) Application of electricity to plant growth and to agriculture;
- (10) Utilization of forest and other vegetable products now but partly utilized;
- (11) Purification of atmosphere from smoke, dust or fog;
- (12) Electrical reduction of peat;
- (13) Development of off-peak and seasonal loads of water-power;
- (14) Determining the conditions under which known electrical phenomena may become the basis of commercial processes;
- (15) Making new discoveries of properties of matter and of its behavior.

A large part of the electricity generated at the high dam should be used by the State in laboratories under the direction of the research and teaching staff of the University, for the purpose of working out these problems. Already considerable progress has been made in Sweden in the reduction of ores by electricity and this subject is of special interest to this State. All the other subjects mentioned need only to be read and considered to commend themselves to the thinking public. The scientific handling of them is in its infancy. Painstaking and laborious research work will produce lasting benefits to the citizens of our commonwealth.

A very considerable part of the electricity would be used in lighting the University buildings. Power not used for research and lighting purposes could be carried to Stillwater and used for extracting nitrogen from the air and the manufacture of fertilizer for the farmers of this State, as binding twine is now produced there. Such a plant would be a suitable adjunct to the State Prison and could be constructed in units using 2,000 kw. or more. There are beds of limestone within easy reach of Stillwater suitable for use in making nitrates.

Supplementary steam power could be supplied by installation of steam turbine units at the main heating plant on the University Campus, and connected by transmission line with the power plant at the dam.

Besides these benefits to the people of the State there would be the indirect advantage of holding as a check over the Northern States Power Company the operation of such a plant thus enabling the State to know the cost of generating the power.

The amount of money paid since 1916 annually by the University to the Minneapolis General Electric Company for electricity used on its main campus follows:—

1916-17 .....	\$ 9,292.12
1917-18 .....	8,706.49
1918-19 .....	10,506.41
1919-20 .....	12,413.99
1920-21 .....	14,918.53
	\$55,837.54

In addition to this the University furnished some electricity from a small plant operated by itself for educational purposes.

The Agricultural campus is not connected by any transmission line with the main campus. Heretofore all electricity used on that campus has been generated on the campus by the University, but at the present time the State is purchasing electricity for part of the consumption at the Agricultural campus.

It is therefore recommended that the Board of Regents express its sentiment in favor of the State of Minnesota taking over the power at the high dam for the use of the people through its University and its State Prison and report its action to the Governor of this State with the recommendation that the Governor take such action as will result in a careful consideration of the

subject in order that the interests of the State in this power may not be overlooked, but rather be fully protected by suitable legislation at the next session of the Legislature.

Respectfully submitted,

(Signed) FRED B. SNYDER

Voted that the salary of Quincy Wright for the academic year 1921-1922 be so adjusted that he receive two thirds of the salary for which he was appointed, distributed during the period beginning January 1, 1922.

Voted that the following rates, being the actual cost of treatment, be charged patients admitted to the Minnesota General Hospital on the certificate of a probate judge of any county in accordance with the provisions of Chapter 411, Session Laws of 1921:

Hospital care, \$15.00 per week.

Operating room, \$6.00 each time used.

X-Ray, at cost—depending upon case. Usually \$2.50 to \$5.00.

Voted to approve the payment of the regular medical fee by special students in the Medical School, by which is meant physicians who come to the Medical School for longer or shorter time to take courses, but who are not eligible for registration in the Graduate School.

Voted that Dyrel Kirk be considered a resident of the State of Minnesota for payment of tuition.

Voted to approve the payment of \$35 to I. W. Geiger for the analysis of water for the State Geological Survey.

A report of the completion of the Heron Lake Bird Group was received. Voted to express appreciation to the following donors:

Mr. James Ford Bell.....	\$1,500
Mr. W. O. Winston.....	500
Mr. Russell M. Bennett.....	500
Mrs. Louise Koon Velie.....	250
Mr. Charles D. Velie.....	250
Mr. Francis A. Chamberlain.....	100

Voted to accept with thanks the gift of \$100 from Mrs. George P. Douglas for a scholarship for a needy girl student.

Voted to approve the change on University records of the name of Marjorie Victoria Rodger to Marjorie Victoria Thorp.



Charles A. Smith .....	75.00
William Wesley McQueen .....	35.00
Rufus H. Milne .....	60.24
Walter A. Boettcher .....	50.00
Carl N. Nilson .....	25.00

Total ..... \$1,405.24

**Ludden Real Estate Fund**

Robert C. Shaw .....	\$ 60.00
Ray E. Johnson .....	50.00
P. K. Benner .....	75.00
Wayne I. Feeney .....	40.00
R. G. Faragher .....	55.00
V. S. Gupte .....	50.00
Joseph R. Pratt .....	50.00
L. B. Gove .....	100.00
Leonard Amodt .....	50.00
Bruce Sifford .....	25.00
C. W. Herbison .....	50.00
Kenneth E. Brown .....	100.00
James O. Gillespie .....	35.00
Harold J. Risk .....	50.00
Robert C. Shaw .....	60.00

Total ..... \$ 850.00

**Ludden Trust Fund**

Gust Tammy .....	\$ 60.00
Clarence W. Meyer .....	60.00
Edwin Lofthus .....	50.00
Helen D. Gibbons .....	75.00
Richard B. Aakre .....	100.00
Allyn T. Cassel .....	50.00
Donald M. Cooper .....	50.00
George O. Dale .....	75.00
Maurice A. McArthur .....	75.00
Beulah Van Blair .....	75.00
Carl J. Waechter .....	50.00
Ann Janke .....	75.00
Elizabeth Howe .....	20.00
Amy E. Hill .....	50.00
Edwin S. Luther .....	100.00
Gladys S. Christopher .....	50.00
Henry Nobben .....	75.00
Peter Mohnen .....	30.00

Total ..... \$1,120.00

Voted to approve the report of the Comptroller to the Chairman of the Auditing Committee, filed supplement to the minutes, page 295.

Voted to approve the report of the Comptroller to the Chairman of the Salaries Committee, filed supplement to the minutes, page 296.

Voted to approve claims, list filed supplement to the minutes, page 297.

Voted to approve the following transfers :

Amount	From	To
\$ 200.00	Payroll item 66, section II, page 23	Budget 25, same section and page.
122.00	Payroll item 388-b, section V, page 75	Payroll item 388, same section and page.
600.00	Payroll item 288, section V, page 71, fund 3	Payroll item 14, section III, page 29, fund 3.
9.93	Payroll item 239, section V, page 68	Payroll item 240, same section and page.
535.00	Budget 172, section V, page 72	Payroll item 311, same section and page.
100.00	Budget 213, section VI, page 88	Budget 214, same section and page.
590.02	Reserve, page 18	Budget 249, section XI, page 100.
300.00	Budget 268, section XIII, page 109	Budget 272, same section and page.
1,000.00	Budget 267, section XIII, page 109	
500.00	Budget 268, section XIII, page 109	Budget 273, same section and page.
50.00	Budget 284, section XIV, page 111	Budget 284-DD, same section, page 110.
90.00	Budget 284, section XIV, page 111	Budget 284-BB, same section, page 110.
175.00	Budget 284, section XIV, page 111	Budget 284-CC, same section, page 110.
1,500.00	Budget 388, section XVI, page 121	Budget 486, section XVII, page 128.
500.00	Budget 512, section XVIII, page 135	Payroll item 89, same section and page.
168.00	Payroll item 30, section XVIII, page 132	Payroll item 27, same section and page.
107.50	Payroll item 3, section XVIII, page 131	
150.00	Payroll item 7, section XVIII, page 131	
487.50	Payroll item 8, section XVIII, page 131	

Amount	From	To
45.00	Payroll item 10, section XVIII, page 131	
300.00	Payroll item 11, section XVIII, page 131	
180.00	Payroll item 12, section XVIII, page 131	
720.00	Payroll item 13, section XVIII, page 131	
200.00	Payroll item 15, section XVIII, page 131	
200.00	Payroll item 21, section XVIII, page 131	
30.00	Payroll item 22, section XVIII, page 131	
30.00	Payroll item 23, section XVIII, page 131	Budget 490, same section, page 132
4,500.00	Budget 493, section XVIII, page 132	Budget 490, same section and page.
1,200.00	Budget 496-A, section XVII, page 130	Payroll item 63-a, same section and page.
150.00	Payroll item 26, section XIX, page 138	Payroll item 25, same section and page.
300.00	Budget 152, section V, page 64	
100.00	Payroll item 173, section V, page 64	Payroll item 173-a, same section and page.
308.40	Payroll item 172, section V, page 64	Payroll item 173, same section and page.
500.00	Reserve, page 18	Payroll item 2, section I, page 18.
900.00	Reserve, page 18	Payroll item 14-a, section VIII, page 95.
225.00	Reserve, page 18	Payroll item 27-b, section III, page 29.
150.00	Reserve, page 18	Payroll item 130-a, section III, page 34.
180.00	Payroll item 187-a, section III, page 37	Payroll item 188, same section and page.
356.95	Budget 145-A, section V, page 61	Payroll item 127, same section and page.
125.14	Reserve, page 18	Payroll item 136, section V, page 61.
23.30	Payroll item 25, section II, page 22	Payroll item 30, same section and page.
240.00	Budget 83-A, section III, page 40	Budget 83-B, same section and page.
119.75	Reserve, page 18	Payroll item 253, section III, page 40.
200.00	Reserve, page 18	Payroll item 40, section IV, page 46.

Amount	From	To
60.00	Reserve, page 18	Payroll item 12, section V, page 51.
33.00	Payroll item 140, section V, page 61	Payroll item 140-a, same section and page.
150.00	Payroll item 240, section V, page 68	Payroll item 234-a, same section and page.
150.00	Payroll item 240, section V, page 68	Payroll item 234-b, same section and page.
250.00	Reserve, page 18	Payroll item 416-a, section V, page 76.
225.00	Payroll item 55, section XVIII, page 133	Payroll item 55-a, same section and page.
110.00	Reserve, page 18	Payroll item 113, section VI, page 84.
400.00	Reserve, page 18	Payroll item 37, section XII, page 103.
122.23	Payroll item 81, section IX, page 98	Payroll item 69, same section and page.
438.00	Payroll item 19, section XII, page 102	Payroll item 21, same section and page.
150.00	Budget 267, section XIII, page 109	Payroll item 33, same section and page.
50.00	Payroll item 2, section XIX, page 138	Payroll item 2-a, same section and page.
600.00	Payroll item 14, section III, page 29	Reserve, page 18.
300.00	Budget 250, section XII, page 101	Payroll item 54, same section, page 105.
500.00	Payroll item 79, section XII, page 106	Payroll item 80-a, same section and page.

Voted to approve the following requisitions:

Requisitions 1001 to 1025.....	\$27,575.39
Requisitions 1026 to 1050.....	49,272.45
Requisitions 1051 to 1075.....	14,821.49
Requisitions 1076 to 1100.....	11,342.07
Requisitions 1101 to 1125.....	27,693.54
Requisitions 1126 to 1150.....	8,697.89
Requisitions 1151 to 1175.....	222,740.26

Voted to adjourn.

A. J. LOBB, Secretary