

**FOURTEENTH  
BIENNIAL REPORT**

OF THE

**BOARD OF REGENTS**

OF

**THE UNIVERSITY OF MINNESOTA**

TO THE

**G O V E R N O R**

**OF THE STATE OF MINNESOTA**

FOR THE

**FISCAL YEARS 1905 AND 1906 ENDING JULY 31**

---

**TRANSMITTED TO THE LEGISLATURE**

**AT THE SESSION OF 1907**

---

**AUSTIN, MINN.**

**The Basford - Bingham Co., Printers.**

**1906.**

University of Minnesota,  
Office of the Board of Regents,  
Minneapolis, Dec. 11, 1906.

To His Excellency John A. Johnson,  
Governor of Minnesota.

Sir:—In behalf of the Board of Regents of the University of Minnesota, I herewith submit the Fourteenth Biennial Report of the Board of Regents for the biennial period ending July 31st, 1906.

Very respectfully,

JAMES T. WYMAN,  
President.

# FOURTEENTH BIENNIAL REPORT

OF THE

## BOARD OF REGENTS

OF

THE UNIVERSITY OF MINNESOTA

### ATTENDANCE.

The attendance for the last three academic years, in the several departments, is shown in the following table:—

	1903-4	1904-5	1905-6
College of Science, Literature and the Arts.....	1,252	1,249	1,309
College of Engineering and the Mechanic Arts.....	397	399	412
School of Mines .....	118	106	121
School of Chemistry .....	36	33	47
Department of Agriculture .....	705	793	768
College of Law .....	535	500	500
College of Medicine and Surgery .....	266	227	192
College of Homeopathic Medicine and Surgery .....	14	15	14
College of Dentistry .....	137	121	180
College of Pharmacy .....	68	67	80
Summer School .....	212	186	210
Graduate Department .....	137	123	110
<b>Totals .....</b>	<b>3,877</b>	<b>3,819</b>	<b>3,996</b>
Duplicates .....	31	29	41
<b>Totals less duplicates .....</b>	<b>3,846</b>	<b>3,790</b>	<b>3,955</b>

Notwithstanding the great inconvenience to students on account of the loss by fire of the old Main Building, the attendance for the fiscal year ending July 31st, 1906, increased 165 over the year previous. The total of 3,955 students in attendance in all the departments of the University being the largest attendance on record in the history of the institution. This of itself speaks well for the care and attention given to students by all the members of the faculty, working under such disadvantages.

## TABLE OF TUITION RATES FOR STUDENTS.

	Residents of Minnesota.	Non- Residents.
The College of Science, Literature and the Arts.....	\$20.00	\$40.00
Graduate Students .....	20.00	20.00
The School of Chemistry .....	30.00	60.00
The College of Engineering and the Mechanic Arts .....	30.00	60.00
The School of Mines .....	30.00	60.00
The College of Agriculture .....	20.00	40.00
The School of Agriculture .....	5.00	10.00
The Dairy School .....	15.00	15.00
The short course for Farmers .....	10.00	10.00
The College of Law .....	60.00	60.00
Matriculation fee (payable but once) .....	10.00	10.00
Graduate students .....	30.00	30.00
Diploma fee (for graduate students) .....	10.00	10.00
College of Medicine and Surgery .....	100.00	100.00
College of Homeopathic Medicine and Surgery:		
First and second years.....	100.00	100.00
Third and fourth years.....	80.00	80.00
College of Dentistry.....	150.00	150.00
College of Pharmacy:		
First year.....	75.00	75.00
Second and third years.....	90.00	90.00
Summer School—Elementary section.....	5.00	5.00
Summer School—University section.....	5.00	10.00

Fees are also charged to cover the expense of material and breakage in laboratory work.

## CURRENT EXPENSES.

The balance on hand to the credit of the general university fund on August 1st, 1904, the commencement of the fiscal year, was as per report \$9,073.21. The total receipts for the fiscal year from August 1st, 1904, to July 31st, 1905, were \$496,010.28. The total disbursements were \$455,596.33, leaving a balance on hand July 31st, 1905, of \$40,413.95. The State Auditor's balance on August 1st, 1905, was \$15,428.12. The difference being caused, as you will notice by the detailed statement, by taxes and other receipts due on July 31st, 1905, not being received until after August 1st, 1905, amounting to \$24,985.83. This amount added to the Auditor's balance makes the true balance as above stated of \$40,413.95. The total receipts from all sources, for the fiscal year from August 1st, 1905, to July 31st, 1906, were \$542,167.49. The total disbursements for the fiscal year were \$476,737.26, leaving a balance on hand August 1st, 1906, of \$65,430.23. The State Auditor's balance for the same date was \$37,269.53, the same being caused by the fact that taxes and receipts due on July 31st, 1906, were not paid until after August 1st, 1906, amounting to \$25,360.70. Also deduct the revolving fund of \$2,800.00 and the net balance on hand would be the Auditor's balance of \$37,269.53. The Board of Regents was obliged to borrow

money for Current Expense but once during the fiscal year from August 1st, 1905, to July 31st, 1906. The amount borrowed was for one pay roll amounting to \$34,250.50. On account of the increased cost of living and the need of more teachers and other help, the Board has found it necessary, during the last fiscal year, to materially increase the salaries of professors and teachers in the University of Minnesota as well as all help employed in the various departments, which will materially add to the expense for the fiscal year from August 1st, 1906, to July 31st, 1907, an amount that will at least use up the balance on hand at the beginning of the year. But the salaries for the teaching force are still inadequate for the service rendered and required and it is the judgment of the Board of Regents that the deficiency appropriation of \$60,000.00, made by the last Legislature, should be increased to \$100,000.00 for each of the fiscal years of the next biennial period in order that the Board may increase salaries of the members of the faculty to a figure approximating the salaries paid men in similar positions in other Western Universities where similar conditions exist.

### **COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.**

Notwithstanding the great inconvenience to students and faculty occasioned by the loss of the old Main Building by fire, which has necessitated the scattering of the classes to different buildings on the Campus and to the inconvenience of ill-ventilated and ill-lighted rooms, there has been an increased of 60 in the number of students in this College the last fiscal year. This department has 874 women in attendance and the need of the New Main Building is pressing. The building is now in process of construction and it is the earnest hope of the Board of Regents that it will be ready for occupancy at the beginning of the Fall term in September, 1907.

**TABLE SHOWING MEN AND WOMEN STUDENTS IN THE  
DIFFERENT DEPARTMENTS FOR THE FISCAL YEAR  
ENDING JULY 31ST, 1905.**

	Men	Women	Totals
Graduate Students.....	73	37	110
The College of Science, Literature and the Arts.....	435	874	1309
The School of Chemistry.....	40	7	47
Six Year Medics.....	50	3	53
The College of Engineering and the Mechanic Arts.....	412	...	412
The School of Mines.....	121	...	121
The Department of Agriculture.....	605	163	768
The College of Law.....	495	5	500
The Summer School—University section,			
The Department of Medicine and Surgery.....	453	13	466
Less duplicates.....	62	148	210
Totals.....	2,746	1,250	3,996
Less Duplicates.....	.....	.....	41
Totals less duplicate.....	2,746	1,250	3,955

**THE COLLEGE OF ENGINEERING AND THE MECHANIC ARTS.**

The attendance in this College has shown an increase of thirteen students for the last fiscal year. The high educational standard which has prevailed in this school for many years has given it a reputation all over the country so that its graduate students are in constant demand for good positions, but the department is surely in need of the New Main Building and Mechanical Laboratory so long contemplated, connecting the two mechanical departments and especially devoted to Mechanical and Electrical Engineering. For this building the Board of Regents has decided to ask the sum of \$250,000.00. The necessity for training the young men of our State in mechanics and the great demand by large concerns for such men is sufficient excuse for presenting at this time, the great need of this department of its new main building with proper equipment for doing the work required for a full training and fitting of students for the profession of Mechanical and Electrical Engineering.

**SCHOOL OF MINES.**

The high standard of attainment required in the School of Mines for a diploma necessarily makes this School, while not large in the number of students, yet very important in its standing and credit to the University. The rapid development of mining interests in the State of Minnesota and other Western states in the last few years, absorbed all the graduate students from this College and there is a constantly growing demand for trained men from this School.

The present facilities seem sufficient for all necessary requirements.

### **COLLEGE OF LAW.**

This College has maintained its high standard of work since the last report, and the facilities provided the students are equal to those of any similar College in the country. A large percentage of the students in this department take the course as a business course without the intention of engaging in the practice of law. In view of the fact that the College is self-sustaining and the tuition paid by the students covers all cost of instruction, it is deemed wise to continue the facilities now afforded.

### **COLLEGE OF MEDICINE AND SURGERY.**

The College of Medicine and Surgery shows a decrease in attendance of students for the last fiscal year amounting to 35. This is occasioned by the advanced requirements for entering the College and has resulted in a marked improvement in the student body. It is the purpose of the Board of Regents to place this College on as high a plane as the very best in the country. Two years of academic work are now required in the six year course, of students in the College of Medicine and Surgery and it is the expectation of the members of the faculty to eventually require a full academic course in order for a student to become eligible to enter. On account of the resignation of Dean Parks Ritchie, after many years of successful work for the College, the Board of Regents elected as Dean, Dr. F. F. Westbrook, who has for many years been at the head of the Department of Pathology and Bacteriology, and who will now take charge of both departments. The completion of the new building now called The Institute of Public Health and Pathology, is giving increased room to all departments relating to the College of Medicine and Surgery and from which increased facilities we have reason to expect good results in coming years.

### **REMODELING & FIREPROOFING THE LABORATORY OF MEDICAL SCIENCES.**

As the Department of Pathology and Bacteriology will vacate the Laboratory of Medical Science in March 1907, it has become necessary to remodel this building for the Department of Histology and Em-

bryology which occupies the north wing and the Department of Physiology which will occupy the south wing. This building is in a dangerous condition on account of the inflammable nature of its construction and needs fireproofing in many parts. For the remodeling and fireproofing the Board of Regents recommends an appropriation of \$25,000.00.

### **COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY.**

Fourteen students were registered in this College for the last fiscal year. Any attempt to unite the two colleges of medicine meets with a determined opposition from both schools of practice and their adherents and friends throughout the State. In the new six year course for medical students, however, the first two years of academic work is the same for each College or School of Medicine, and there seems to be a general blending of interests and methods which may eventually lead the two schools together, which is the earnest hope of the Board of Regents.

### **COLLEGE OF DENTISTRY.**

The increase in the College of Dentistry for the last fiscal year of 59 students indicates the growth of that College exceeding all expectations of faculty and Regents. The high standard of the College has given it a splendid reputation all over the country and has made it proper for the Board of Regents to raise the tuition from \$100.00 to \$150.00, the highest paid by any class of students in the University. These students are now crowded into the Main Medical Building without proper facilities or sanitary arrangements and a need of a new building for this department is imperative. The Board of Regents would recommend that an appropriation of \$100,000.00 be made for a building to be occupied by the College of Dentistry and the College of Pharmacy jointly.

### **COLLEGE OF PHARMACY.**

Notwithstanding its crowded condition, the College of Pharmacy has increased in numbers until 80 students are now taking the course in that College. The narrow facilities afforded this important College have been a source of great dissatisfaction to students and a serious annoyance to the members of the faculty and the Board of Regents. The members of the senior class are always in demand for good posi-



tions and the importance of the work of this College is growing every day in the minds of the people. For that reason we have recommended the new building to be built for the College of Dentistry and the College of Pharmacy and occupied by these two colleges jointly.

### **THE COLLEGE AND SCHOOL OF AGRICULTURE AND EXPERIMENT STATION AT ST. ANTHONY PARK.**

This important department has continued its work for the last two years with the usual success and efficiency. While there is no increase in the number of students, because it has been practically handicapped by lack of facilities for increased attendance, yet the high standard of its graduates has attracted the attention of the people of this state more and more as the years go by. The new main building is now approaching completion and the Board of Regents hopes to have it ready for occupancy by March 1st, 1907. The last Legislature appropriated \$60,000.00 for the purpose of buying additional land and adding to the fund already appropriated for the New Main Building. While this amount was insufficient and less than asked for by the Board of Regents, yet 20 acres of land immediately adjoining the Campus has been secured, being the N $\frac{1}{2}$  of W $\frac{1}{2}$  of W $\frac{1}{2}$  of SW $\frac{1}{4}$  of Sec. 21, Twp. 29, Rg. 23, Ramsey County. We were able to make this purchase on account of a fund on hand amounting to \$8,210.69 from the sale of lots in the Minnetonka Fruit Farm available for the purchase of land. With that amount and \$11,789.31 from the \$60,000.00, above referred to, the 20 acres were purchased. The total purchase price being \$20,000.00. The appropriation of \$10,000.00, granted by the last Legislature for the enlargement and equipment of the Dining Hall, has been expended and has added greatly to the facilities of the Dining Hall. Provision should be made for connecting the sewage system with the large main sewer that is being constructed by the City of St. Paul to a point near the School of Agriculture, as there is no outlet for sewage until this is done. It is estimated that the cost of sewer, drainage of the swamp, etc., will be \$12,000.00. This drainage will add several acres of land to the farm.

Many of the most important experiments with farm crops have, for a number of years, been made on leased land. Industrial development of the surrounding territory renders it each year more difficult to renew leases. Unless immediate measures are taken to purchase this land the School of Agriculture and the Experiment Station will be left without sufficient land for instruction and experimental uses.

Practical agriculture cannot be taught without land. The farm proper is only 278 acres. Early provision should be made for the purchase of the rented land or its equivalent, amounting to about 180 acres. It is believed that this land can be procured, by condemnation proceedings if necessary, for \$85,000.00. It is earnestly hoped that this will be done as each year's delay renders it more difficult to procure the land. The last session of the Legislature appropriated, for the biennial period, \$8,000.00 for improvement in Plant Breeding, \$2,000.00 for Soil Investigations, \$9,000.00 for the purchase of Live Stock and \$1,000.00 for Campus improvement. For the coming biennial period it is recommended that the appropriation for the purchase of Live Stock be made \$9,000.00 and the appropriation for Plant Breeding be made \$7,000.00, and that \$1,500.00 a year be appropriated for breeding and improvement of Horticultural crops. It is also recommended that the appropriation for Soil Investigations be increased to \$3,000.00 for the biennial period and the appropriation for Campus Improvement be increased to \$2,500.00, so as to allow the extension of sidewalks, pavement of gutters and beautifying the grounds. To maintain the twenty or more buildings constituting the plant of the Agricultural Department a larger appropriation for repairs should be granted.

A dairy farm suitable for investigation in milk production and feeding dairy stock as well as instruction in the School and College of Agriculture is very much needed and would cost \$20,000.00. We earnestly recommend that this appropriation be made. The dairy industry is one of the great sources of income to the farmers of the State and we believe that the equipment recommended would greatly assist in its further development. We would recommend that the Dairy Hall be remodeled and a modern equipment provided. It is estimated that this would cost \$20,000.00. This is necessary in order to maintain our prestige as a dairy State.

On account of the need of more power and heating capacity for the new buildings at the School of Agriculture, it is necessary to add to the Power Plant an extension of coal bunkers, a new engine and dynamo and repair shop to replace space formerly occupied in Power House. The estimated cost of this addition is \$12,000.00 and should be made available in 1907 so as to complete the work before the opening of the Fall term.

### **DORMITORIES.**

The next session of the legislature should determine the question as to whether full dormitory privileges shall be provided at the School

of Agriculture for the students, and if that question is decided affirmatively, more dormitory space must be provided as many students find it difficult to procure rooms near enough to the Campus to make attendance possible.

### **GRAND RAPIDS EXPERIMENT STATION.**

We would recommend that the appropriation for maintenance of the Grand Rapids Experiment Station be increased \$1,000.00 making a total of \$5,000.00 for that work.

### **CROOKSTON SCHOOL AND EXPERIMENT STATION.**

The new building for Crookston School of Agriculture being completed and ready for use, the Board of Regents received an offer from the citizens of Crookston to provide \$2,500.00 in cash for the operation of the School for the regular term commencing in October, 1906, and ending in March, 1907, in order to have the School in operation until the Legislature met to make provision for its maintenance. After consulting with the Attorney General of the State of Minnesota and finding upon estimates that \$2,500.00 would pay the expenses of the School for the period named, the Board of Regents decided to accept the offer, which was made unconditionally on the part of the citizens of Crookston. The money was paid over to the Board of Regents and held in a separate fund until action can be taken by the Legislature of Minnesota, and the School was opened October the 1st, 1906. The Board of Regents would recommend that an appropriation of \$4,000.00 per year for the biennial period beginning August 1st, 1907, and ending July 31st, 1909, be made for the support of the Crookston School of Agriculture, and we also recommend that the appropriation of \$8,000.00 per annum for the support of the Station be continued for the next biennial period.

### **GENERAL LIBRARY.**

The need of an extensive library for a great University is so well understood by the average layman that it would seem no urgent request from the Board of Regents would be necessary to call the attention of the State to the need of an appropriation of \$20,000.00 for the general library of the University. We would therefore recommend that an appropriation for library purposes be made of \$20,000.00 and that a further appropriation of \$5,000.00 be made for periodicals and

binding. The library has no general catalogue and cannot get the best use of the library without one, therefore, an appropriation of \$2,500.00 annually for that purpose is recommended.

### **MILITARY SCIENCE.**

Major George H. Morgan of the 9th Cavalry having been relieved, at his own request, the commandant of the military department of the University of Minnesota, Captain Edward Sigerfoos having been appointed as his successor, the work in that department has continued on the lines of efficiency that have characterized it heretofore. We would recommend that the yearly appropriation of \$600.00 for extra equipment for commissioned officers, band and trumpet corps be continued for the next biennial period.

### **FIRE PROTECTION.**

The several fires of recent years, at the Main University at Minneapolis, have forcibly called the attention of the Board of Regents to the need of better fire protection. Larger water mains in connection with the water system of Minneapolis are imperative. Plans have been made by our engineer accompanied by estimates showing that an appropriation of \$5,500.00 would greatly relieve the situation and give needed improvement in fire fighting facilities. We would therefore recommend the appropriation of \$5,500.00 for this purpose, to lay water mains and make connections on the Campus and adjacent streets.

### **CAMPUS IMPROVEMENT.**

The money heretofore appropriated for Campus Improvement at the Main University at Minneapolis has been well expended in sidewalks, grading, sodding and roadmaking, but much yet remains to be done in order to put the Campus in condition. We would therefore recommend that an appropriation of \$5,000.00 per year be made for this purpose for the binennial period.

### **WOMAN'S BUILDING.**

The University of Minnesota has been fortunate, during the past year, in receiving the gift of \$60,000.00 from Hon Thomas H. Shevlin for the purpose of building a Woman's Building. Much interest has been taken by the women of the state in the needs of such a build-

ing at the University. There are 1,250 women attendants in the different departments of the University, 163 of them in the Department of Agriculture and 1087 in the other departments of the University. While the women in the Department of Agriculture have had a dormitory which has provided for them something of a resting and meeting place, the 1087 women of the other departments of the University have had no place in which they had exclusive rights. The Board of Regents accepted the gift of Mr. Shevlin and the building is completed and ready for occupancy and named the Alice Shevlin Hall. This building stands as a monument to Mr. Shevlin's generosity and a great blessing to the women attendants at the University of Minnesota. In addition to the sum of \$60,000.00 above mentioned the Woman's League and the Young Women's Christian Association have jointly raised about \$3,500.00 toward the cost of equipment of the Alice Shevlin Hall and their Committees have rendered invaluable service in the selection and installation of equipment and decorations

#### **THE ELLIOTT GIFT FOR CLINICAL HOSPITAL FOR THE COLLEGE OF MEDICINE AND SURGERY.**

Dr. and Mrs. A. F. Elliott, former residents of Minneapolis, desiring to raise a memorial in the University of Minnesota left their property to Mr. Walter J. Trask of Los Angeles, California, with instructions to bestow a part of the bequest on the University of Minnesota. Mr. Trask, who was sole legatee of the estate, has offered to turn over to the Board of Regents the residue of the estate after all expenses and legacies have been paid. The amount of this residue is about \$112,000.00, of this sum \$110,000.00 is already in bank. Mr. Trask proposes to make this gift to the University of Minnesota for the purpose of building a hospital for clinical purposes. Although authorized by statute to accept gifts to the University, the Board of Regents has felt that in the case of this hospital gift it had better be submitted to the Legislature before acceptance and Mr. Trask has consented to have the acceptance of his gift deferred until the Legislative session of 1907 has time to act. The Board of Regents earnestly recommends that this gift be accepted for the purpose named. The best equipped medical colleges in the country are provided with a clinical hospital. The difficulty in obtaining clinical material and securing privileges at the hospitals of Minneapolis and St. Paul accentuates the need, in the College of Medicine and Surgery, of such clinical material at hand and under its own supervision. It would not be

the purpose of the Board of Regents, if this gift was approved by the Legislature and Governor of the State of Minnesota, to make such a hospital in any way a competitor of other hospitals of the State, but it would be the purpose to make it a hospital for clinical purposes only. If the Board of Regents is authorized to accept this gift, it would be necessary to make an appropriation of \$12,500.00 for maintenance for the fiscal year beginning August 1st, 1907, and \$25,000.00 for the fiscal year beginning August 1st, 1908.

### **ORDINARY REPAIRS.**

The buildings of the University have so increased in number that the appropriation of \$10,000.00 per annum, made by the last Legislature, was entirely inadequate to keep the buildings in proper repair and they are gradually deteriorating in consequence. We would therefore recommend that an appropriation of \$15,000.00 per year be made for that purpose for the next biennial period for repairs at the Main University and also at the School of Agriculture and Experiment Station at St. Anthony Park.

### **DWELLING HOUSE FOR THE SUPERINTENDENT OF BUILDINGS AND GROUNDS.**

Since the destruction of the old Main Building the Superintendent of Buildings and Grounds has been obliged to rent a house outside the Campus. This is a great disadvantage to the University, as the Superintendent's constant care and attention is needed on the Campus. This requires a house for him, as none of the buildings are adapted to such a purpose, even if there were spare room which could be used. Therefore the Board of Regents recommend that a house be built on the Campus to be used as a place of residence by the Superintendent of Buildings and Grounds. This house to cost not to exceed \$3,500.00 and the Board requests that an appropriation of that amount be made available August 1st, 1907.

### **LABORATORY FOR PLANT HOUSE.**

In building the Plant House the appropriation was found inadequate to build the laboratory contemplated in the original plans of the Board of Regents, therefore that part was left in construction so that the full use of the Plant House is not available for the Botanical Department until the Laboratory is built. Therefore the Board

of Regents recommend an appropriation of \$7,000.00 to build the laboratory for the Plant House and to improve the gardens connected therewith.

**TUNNEL CONNECTING BUILDING OF PUBLIC HEALTH AND  
PATHOLOGY WITH BOARD OF HEALTH BUILDING.**

In constructing the New Bacteriological Building, now known as the Institute of Public Health and Pathology, it was found necessary to leave out the tunnel from that building to the Board of Health Building in order to keep within the appropriation. This tunnel is very necessary in the conduct of the Laboratory and the Board of Regents recommend that an appropriation of \$3,000.00 be made for its construction.

Minneapolis, Minn., Dec. 11th, 1906.

Gentlemen of the Board of Regents:

I present herewith my biennial report as President of the University of Minnesota for the years 1904-1906.

### **THE UNIVERSITY COUNCIL.**

The University of Minnesota now embraces ten colleges and four technical schools. The work of these colleges and schools has been carried on by the various faculties, without any special friction between the different institutions. But it has been felt for some time by members of the Faculties that there were many interests common to all the colleges and schools, which could not be directed by any single faculty and could not be conveniently directed by independent concurrent action of all the faculties; and that a governing body representing all the faculties, if established by the Regents, could administer such affairs as concern equally the whole University, more satisfactorily than they have been administered heretofore and more especially so by reason of the constant and rapid increase in the number and importance of such matters of general interest. To meet the condition a plan for the organization of a University Council was formulated and approved by the Faculties of the various schools and colleges included in the University. This plan was approved and the University Council was formally established by vote of the Board of Regents, May 31st, 1905. The University Council consists of the President of the University, the Deans of the various Colleges and Schools, one elected representative from each college or school for each four hundred students or major fraction thereof, and one representative of the General Alumni Association. During the first year of its existence the Council has earnestly sought to remove various abuses and evils which had crept in almost unnoticed, more especially in connection with entertainments and publications by students involving the expenditure of more or less money and the handling of funds by agents of the classes, responsible or irresponsible, with possibilities of dishonesty and misappropriation of funds. The University Auditing Board established by the Council now audits the accounts of all student organizations, and renders it practically impossible for the business agents of the classes to appropriate money dishonestly to their own use, if they were disposed to do so. The evil of graft and other forms of dishonesty in business matters has been, it is believed, removed from the operations of the classes, and the tempta-



tion to evil business methods and to the acceptance of a low standard of honor in the execution of trusts, has been very much diminished—and it will not be the fault of the Council if such temptation is not entirely removed. The student body at least knows that the University Council will not knowingly tolerate any graft or other dishonest practice on the part of student organizations or their agents. The Council, through its Press Committee has undertaken to elevate the character of the student publications, to prevent the publication of what is misleading or injurious or unworthy in character or style, and to encourage real journalism. Not so much has been accomplished in this field as has been achieved by the Auditing Committee in the matter of accounts; but the outlook for the future is bright and the students publications of the future are likely to be of a higher order than those of the past, and the Minnesota Daily may yet become a real educating force in the University as it ought to be and easily could be.

Another matter of great importance with which the Council has dealt is Athletics, especially Foot Ball. At a meeting of the Board of Regents held Dec. 12th, 1905, a communication was presented from the officials of the Athletic Association stating that "the imperative demand for foot ball reform comes from every part of the United States," and recommending that the Intercollegiate Conference appoint an official staff of umpires, referees and linesmen who shall exercise the utmost vigilance and impose prescribed penalties for violation of rules. This, it was claimed, would tend to place the officials in a position independent of local teams and enable them to eliminate "brutality and unnecessary roughness from the foot ball field." The Board of Regents, in considering the recommendation of the Athletic Officials, first rejected by a vote of three ayes and five noes a resolution "that foot ball games as now played are not only brutal but tend to immorality." The Board then unanimously approved the recommendation of the officials of the Athletic Association, but added to its expression of approval the following: "In approving the foregoing, the Board of Regents desire to express their opinion that the game of foot ball as now played is too brutal and that the game if it is to be continued should be reformed." This attitude of the Board of Regents at the close of the year 1905 was the attitude of most of the members of the faculties and, as I think, was also the attitude of a large majority of the students. The steps subsequently taken by the Council and approved by the Board of

Regents, were intended to reform but not to destroy foot ball. The Intercollegiate Conference recommended to the Universities represented at the Conference various changes in the regulations the most notable of which were the assumption of authority in foot ball by the Faculties, the abolition of the training table and the reduction of the salary of the Director of Athletics to the standard of salaries paid to professors of other subjects. These regulations were all approved, and the University Council is now the ultimate authority directing and controlling athletics as the Court of Appeal—though the general direction is still in the hands of the students. The Council in taking into its own hands the ultimate authority in Athletics does not intend to interfere with the freedom of the students so long as that freedom is not used to the detriment of the University. No doubt a virtue that has been tried and tested is better than one which has never experienced temptation. No doubt a high sense of honor among students is most desirable and if students without being under any supervision of the Faculty were always governed by a high sense of honor, the situation both for faculty and students would be ideal. But unfortunately experience proves that it is not always safe or desirable to subject the student to unnecessary temptation, and that he needs not seldom the protecting care with which a wise parent watches over his child. In the family and the college alike it is better to prevent a beginning of evil courses than to permit such beginning and trust to the future for recovery and reform.

### BEQUEST TO THE UNIVERSITY.

By the will of the late Mrs. A. F. Elliott, widow of Dr. A. F. Elliott, formerly of Minneapolis, but more recently of California, a large bequest was made not directly to the University, but to an attorney who was personally charged with the duty of conveying to the University property intended by the Elliotts to be so conveyed and this bequest will probably amount to, at least, \$115,000. The heirs of Mrs. Elliott have requested that this fund be used to erect a Hospital in connection with the Medical Department of the University. The Regents of the University have consented to use the money for this purpose, provided that the Legislature of the State shall give its approval, it being understood that such approval would mean a willingness on the part of the State to support the Hospital in future, as a part of the Medical Department. The tremendous value of such a Hospital to the College of Medicine and Surgery as a means

of practical teaching and convenient clinical work must be appreciated by every one who realizes the situation and I suppose there can be no doubt that the Legislature will give its hearty approval to this use of the bequest and that the Hospital will be added to the equipment of the Medical Department. The University certainly appreciates most heartily the kind spirit and loyalty to Minnesota and regard for human welfare which characterized both Dr. and Mrs. Elliott in making this bequest to the University, and not less the honorable and generous spirit shown by Mr. Trask the legatee through whom the University receives the gift.

### NEW BUILDINGS.

The New Main Building for which an appropriation of about four hundred thousand dollars will be available in full in 1907, is under construction. It will be 322 feet in length and three stories in height above the basement. It is to be built of brick with cut stone trimmings and is to be ready for use at the opening of the College year 1907-08. The University will be unpleasantly crowded till this building is finished.

A Building for the department of Pathology, Bacteriology and Hygiene, for which the legislature made in 1903 an appropriation of \$100,000, has been erected and will be ready for use at the opening of the year 1906-07. The building will be known as the Institute of Public Health and Pathology.

Space is provided on three floors for a museum and library. A Pasteur Institute is housed in this building for the treatment of and research in hydrophobia. The two large laboratories for teaching pathology, bacteriology and public health and numerous offices, private and research laboratories and a large amphitheatre are arranged with special attention to efficiency and convenience. The State Board of Health Laboratories are housed here in the end of the building adjacent to the special laboratory built by that Board some years ago. Photographic laboratories, workshops, cold storage and autopsy rooms are provided.

A Plant House for the Department of Botany has been erected on University Avenue between Fourteenth Avenue and Thirteenth Avenue near the ground formerly covered by the coliseum on old Drill Hall. It is expected to be ready for use in the Autumn of 1906.

The Main Building for the Department of Agriculture is now under construction, and will be completed in 1907. It will be 248

feet long by 73 feet wide, with a wing 63 by 73 feet. It will be three stories high with a basement. The material for the basement is stone, and for the rest of the building brick. The building will cost about \$210,000. The equipment with heating and lighting plant will cost \$66,000 more. The appropriation covers this.

A steel water Tower and Tank for which the legislature made an appropriation of \$5500, has been erected with a capacity of one hundred thousand gallons, and has already paid for itself by enabling students to suppress promptly a fire which threatened the destruction of one of the prominent buildings.

A Live Stock Pavillion has also been erected at the farm, at a cost of \$34,000. It is built of brick and is admirably adapted to the purpose for which it is to be used.

### **WOMAN'S BUILDING.**

In my biennial report in 1904 I made a modest request for an appropriation of \$25,000 for the erection of a building for women at the University. The Legislature, in consequence of the heavy demands for various objects, was unable to appropriate the money for the purpose named. Very fortunately, however, the want has been more than met through the liberality of a distinguished citizen of Minneapolis. The Hon. Thomas H. Shevlin has given to the University \$60,000 for a "Woman's Building" to be known as "Alice Shevlin Hall." The gift has been accepted by the Regents and the building has been erected on the site of the Old Main between the Library and Law buildings. It is a two-story building being made of pressed brick with stone trimmings. It has a frontage of 114 feet and a depth of 55 feet. The purpose of this building is to furnish suitable rest and study rooms for the women attending the University. The building contains several Society Rooms, a large Lunch Room, and a general Reception Hall. It will be completed and ready for occupancy some time in the Autumn of 1906.

### **STATES REPRESENTED IN THE ATTENDANCE.**

The attendance at the University continues to be largely from Minnesota. Yet in the year 1904-05, students were in attendance from twenty-three States and three foreign countries. The attendance from outside the State of Minnesota was about one tenth of the total attendance. After Minnesota, the state which furnished the

largest number of students was Iowa with ninety-four students. Wisconsin furnished eighty-three, North Dakota eighty-seven and South Dakota fifty-nine—Minnesota furnished thirty-four hundred—Other states represented in the attendance were Missouri, Washington, Kansas, Virginia, Illinois, Nebraska, Ohio, Indiana, Utah, California, New York, Montana, Maryland, Pennsylvania, New Jersey, Connecticut, Vermont, Michigan, South Carolina, West Virginia; there were also students in attendance from France, Japan, Manitoba, Ontario, and the District of Columbia.

### **STUDENTS NOT WEALTHY.**

Fortunately there is no need of my discussing the question which engages so much of the attention of some of the Eastern Colleges as to the effect upon college morals and life of great wealth among students. Few of our students are wealthy. The democratic spirit still prevails.—Men are valued for what they are rather than for what they have—and wealth certainly does not minister to vice here, because it is not here to exert an influence either good or bad.

While it is doubtless true that our students are for the most part in better financial condition than were the students of twenty years ago, it is yet true that a considerable number of students are glad each year to avail themselves of the opportunity to borrow money from the Gilfillan Trust for a part of their support. It is not likely that this University will ever have wealthy students in such numbers as now crowd the class rooms of Harvard and Yale. I do not think this is a matter for regret. Generally speaking wealth and poverty are both inimical to the best work in College—and so long as the sons and daughters of Minnesota with neither poverty nor riches can gain in the University of Minnesota the education which they need, I for one shall be quite content to have the student body largely composed of these the sources of whose prosperity and wealth lie in the future and not in the past.

### **ADDITIONS TO THE FACULTY.**

The department of philosophy has been strengthened by the appointment of Dr. James Burt Minor, as Assistant Professor, to enter upon his duties in September, 1906. Dr. Minor when appointed was Assistant Professor in the Iowa State University. He is a graduate of the University of Minnesota and has prosecuted his studies in other institutions, especially in Columbia University.

Dr. L. Westermann of the University of Missouri has been called to the work and position of Assistant Professor of History in the University of Minnesota and has accepted. He enters upon his duties at the opening of the college year, September, 1906. He comes to us with an excellent reputation for scholarship and ability and work.

Dr. Albert E. Jenks, a student of Sociology of much practical experience, has been called to the University of Minnesota as Assistant Professor of Sociology and will enter upon his duties at the beginning of the College year 1906-07.

Mr. James T. Gerould of the University of Missouri has been elected Librarian of the University and entered upon his duties August 1st, 1906, taking the place vacated by Dr. W. W. Folwell who after many years of faithful service retires from the Librarian's office to give his whole time to the work of Professor of Political Science.

### **ADVANCED STANDING OF COLLEGES OF MEDICINE.**

In its desire to raise the standard of professional education, the University of Minnesota has for several years required that candidates for admission to the College of Medicine and Surgery shall have taken one year of work in the College of Science, Literature and Arts or in some other reputable College, in addition to four years work in a High School or its equivalent. By the action of the Board of Regents, May 3rd, 1906, it is now provided that two years of collegiate work shall be required for admission to the College of Medicine, beginning with the year 1907-08. The requirement of one year of college work reduced the entering classes of the College of Medicine and Surgery sixty per cent; but the loss in numbers was quite made up by the superior quality of the classes and the increased efficiency of the work. It is believed that the addition of another college year to the entrance requirement will not further reduce the entering class, as the candidates will have had ample time to prepare before the requirement goes into effect. It is safe to predict a steady yearly increase in the number of students in the Medical College from this time on, in consequence of the high standing of the College and the opportunity it offers for the best training in medical science.

### **DEPARTMENT OF ENGLISH.**

Professor Charles F. McClumpha, Professor of the English Lan-

guage and Literature, very unexpectedly resigned his chair at the close of the first semester of 1906. He had been connected with the department nearly eight years, first as Assistant Professor, and later as Professor in full charge of the department, and had proved himself an able scholar and an earnest teacher. It is much regretted that special duties elsewhere, thrown upon him by unavoidable circumstances, compelled him to relinquish his work in the University.

To fill the vacancy occasioned by the resignation of Professor McClumpha, the Regents elected Dr. Richard Burton who had held the Chair of English in the University for several years but had resigned to engage in special literary work in the year 1902. Dr. Burton has given annually at the University several courses of lectures in English Literature, and his acceptance of the Professorship of English Language and Literature and his prospective entrance upon his regular work at the opening of the University in the Fall of 1906, gave the greatest satisfaction to the students and friends of the University. The English Department has suffered during the year 1906-07 from the resignation of Professor McClumpha, the absence in Europe of both Assistant Professor Frances S. Potter and Instructor Mary Gray Peck, who spent the year in study at Cambridge, England, and from other misfortunes which deprived the institution of the services of available instructors. I am personally very much obliged to Professor R. Watson Cooper of Hamline University, who at much inconvenience consented to take charge of one of the classes and by his vigorous and interesting leadership helped to lift the department out of the depths into which it seemed to be falling. Other instructors, notably Mr. LeRoy Arnold upon whom a large responsibility fell by reason of the unexpected absence of teachers, did much to help out the situation. It is with the greatest satisfaction that I announce the return of Mrs. Potter and Miss Peck, both greatly strengthened for work by the studies pursued under the best scholars of England the past year; the continuance in the department of Professor Klaeber of whose attainments the University is justly proud; the assistance so far as it may be needed of Mr. Firkins whose skill in literary criticism is most highly appreciated by those who have taken work under him; and last of all, the return of Dr. Burton, who is expected to reorganize the department and make it certain that the things which ought to be taught are taught and taught by the right person. While every opportunity that could be desired for philological study will be afforded to such students as may desire it,

the spirit of the department will be literary, and its object will be to secure for its students appreciation of the best literature and the culture and inspiration which only the best literature can give. If the English Department has been an occasion for anxiety during the latter half of the past year, it will in its invigorated and reinforced corps of teachers under a tried and proved leader, be an occasion for pride and congratulation the coming year.

### RESIGNATIONS.

In June 1906, at the close of the work of the year, Dean Parks Ritchie of the College of Medicine and Surgery tendered his resignation and it was accepted by the Board of Regents with expression of its high appreciation of his long and faithful service, and the ability shown in the management of the department of Medicine and Surgery. To fill the vacancy created by the resignation of Dean Ritchie the Regents unanimously elected Dr. Frank Fairchild Westbrook, the Professor of Pathology and Bacteriology.

In the latter part of the year 1904, Professor Willet M. Hays, of the Chair of Agriculture was appointed by the President of the United States to the office of Assistant Secretary of Agriculture. He at once accepted the appointment and resigned his professorship. Professor Hays had rendered valuable service to the University and the State of Minnesota during the fifteen years he was connected with the Experiment Station and the College and School of Agriculture. He had made many successful experiments in plant breeding, in developing new kinds of wheat which added considerably to the profits of farming; he had done much to promote agricultural education in the rural schools; and in many ways he had co-operated with the Department of Agriculture in Washington, and with the Experiment Stations in other States. His ability, training and experience all fitted him in a marked degree for the high duties to which he has been called; but they also make his removal from the University a great loss to the institution. Perhaps, looking only at the desired progress of agriculture, in a large and unselfish way, it may be possible to be reconciled to his removal by the thought that what is our loss is the Nation's great gain.

Mr. Edward M. Freeman, Assistant Professor of Botany, resigned his position in 1905, having been called by the Department of Agriculture at Washington to take up special scientific investigation in various parts of the country. Mr. Freeman had been trained



under Professor MacMillan. He had just completed a treatise entitled "Plant Diseases." This the University published and it has received very high commendation from distinguished scientists and from practical farmers.

In June, 1906, Professor Conway MacMillan who for twenty years had filled the Chair of Botany in the University, tendered his resignation and it was accepted by the Board of Regents with a formal vote of "appreciation of the ability of the professor and of the admirable work done by him in organizing and conducting the Department of Botany." Professor MacMillan created the Department of Botany and made it one of the most attractive and interesting departments in the University. He gathered an herbarium which in number and value of specimens is surpassed by few in the country. He trained numbers of scholars who to-day are distinguished men of science, in the service of the National Government's Agricultural work, or in the Faculties of other Universities. So thorough has been his work, and so excellent the force of Assistants trained by him for the work of instruction and investigation, that the Regents did not for a moment think it necessary or desirable to go outside of the department to find a successor, though many distinguished men in other institutions could have been secured. The work of the department will be carried on during the next year by the present corps of instructors, and the vacancy created by the resignation of Professor MacMillan will be filled probably before another year's work begins.

### **CONSOLIDATION OF WORK.**

The Board of Regents voted June 9th, 1906, to consolidate the Department of Chemistry in the College of Medicine and surgery with the department of chemistry in the College of Science, Literature and Arts. October 4th the Regents amended this vote by substituting the School of Chemistry for the College of Science, Literature and Arts. The whole work in chemistry was placed under the charge of Dean George B. Frankforter. Professor H. C. Carel of the College of Medicine and Surgery was retained to assist in the teaching of Medical Chemistry under Dean Frankforter.

### **COMBINATION COURSES.**

The Board of Regents at its meeting December 12th, 1905, resolved that the various Colleges and Schools of the University should

cooperate as far as practicable in the combining of courses of study and the granting of degrees. It is now provided that a student can secure both the academic and the medical degree in six years, the first two years of science in medicine counting for both degrees. It is further provided that a student can secure both the academic and the dental degree in six years, the Freshman year in the College of Dentistry counting as the Fourth year of Academic work. And arrangements by which a student may secure both the academic degree and the degree in Law in six years are under consideration and will doubtless be approved. The effect of these arrangements is not to lower the character of any degree, but to permit two degrees to be taken in less time than formerly by crediting a part of the work to both degrees, it being in all cases work worthy of credit for either degree. The academic degree is conferred at the end of four years' work, and the professional degree at the end of six years' work.

### **THE COLLEGE OF EDUCATION.**

In accordance with the action of the Legislature requiring the establishment, in the University, of a College of Education, the Board of Regents at a meeting held December 12th, 1905, voted to establish such a college with a two years' course and a three year course, each beginning with the Junior year. Professor George R. James, who has held the chair of Pedagogy in the University for several years, was elected Dean of the College of Education and was authorized to prepare a course of study subject to the approval of the President of the University and to ratification by the Board of Regents. The Dean has accordingly prepared a course of study for the college and the same has been published in a bulletin for general information. Much interest in the new college has been taken by the leading teachers in all parts of the state, and hearty cooperation with the college on the part of all the educational forces in the state is assured. It is certain that the college is to have a large part in the work of training the teachers of the state in the coming years. Mr. A. W. Rankin, who for several years has been a most efficient agent of the State High School Board in visiting graded schools, and who has had a large experience as a teacher, superintendent and lecturer, has been elected a professor in the College of Education, and it is believed that he will add much to the strength of the Faculty.

### GRADUATE SCHOOL.

The Board of Regents at a meeting held December 12th, 1905, voted to establish a Graduate School. It appointed Dr. Henry T. Eddy as Dean of the School and authorized him to prepare rules and regulations for the school subject to the approval of the President of the University, such rules and regulations to be operative when approved by the Board of Regents. It was further voted that the Graduate School should include all departments or colleges offering graduate work or granting higher degrees, and that all professors in the University giving graduate work should be members of the Faculty of the Graduate School.

The Board of Regents was not unanimous in its action. Indeed no step of equal importance has ever been taken by the Board within my knowledge, when the Board was so divided in opinion. But the action was not revolutionary. It simply recognized in a formal manner what has practically existed as fact for many years. Graduate instruction has been given for years past by such professors as were willing or able to offer it. The work has been directed by a Committee on Graduate work. Degrees have been granted for graduate work. The establishment of the Graduate School therefore simply unified and invigorated forces that were already at work, and it did not necessarily increase the expense of the University, apprehension of increased expenditure having doubtless been the chief objection on the part of the Regents.

The establishment of the Graduate School had been earnestly urged by various Alumni Associations, especially that at Washington, D. C. The University suffered by comparison with other Universities which had their graduate work organized, and students of the University of Minnesota experienced difficulties in German Universities on account of the supposed inferiority of the work done here. It was both just and wise that the Graduate School should be organized as a formal expression to the outside world of the work the University was actually doing, and at the same time as a sure method for enlarging and improving our graduate work. I am sure that the new school under the conservative management of Dean Eddy will not add largely to the financial burden of the Regents and will to a considerable degree increase both the quantity and quality of the work done. Expansion in this work must be expected and be prepared for as well as in all other work, for the population of the northwest is increasing rapidly and the people are hungry for edu-

education and a goodly number of them will always want the best education that is obtainable.

### **MAIN BUILDING FOR COLLEGE OF ENGINEERING.**

The Engineering College has grown wonderfully in the number of students and is likely to continue to grow for some time to come, as skilled engineers are in great demand for the industry and development of the country. The college has needed a main building for several years. The time has come when such a building must be provided if the college is to do its work satisfactorily. I recommend that an appropriation of two hundred thousand dollars for such a building and equipment be asked of the legislature.

### **DAIRY DEPARTMENT EQUIPMENT.**

Dean Liggett in his report to me calls attention to the fact that much of the equipment of the Dairy Department is old and requires replacement. A remodeling of dairy hall and a modern equipment, all at a cost of twenty thousand dollars, are deemed by him necessary to afford adequate facilities in the subject of dairying. Dean Liggett further calls for an additional Ladies' Dormitory to relieve the present crowded condition and provide for the future growth of the institution. All rooms available were engaged the present year six weeks before the opening of the school, and in some cases four students were assigned to one room. If the policy of the state is to have full provision of dormitories for all students of the School of Agriculture in the future, there can be no question that this proposed dormitory for girls is needed.

### **LAND NEEDED FOR AGRICULTURE.**

Dean Liggett further urges that the lands now leased for the agricultural department should be purchased as the loss of the lands would severely cripple the institution and his view of the matter seems reasonable. Dean Liggett further renews the suggestion made two years ago that a new drill hall is needed—needed now more than ever before; and suggests other pressing needs in relation to the disposition of sewage and a larger repair fund for the maintenance of buildings and plant, all of which I commend to the careful consideration of the Board of Regents.

### **A DAIRY BARN.**

I heartily indorse the suggestion of the Dean of the Department of Agriculture that an appropriation of twenty thousand dollars for a Dairy Barn be asked for at the next session of the legislature— In connection with this one of the most eminent Directors of Experiment Stations in the country has written to me in reference to the importance of doing for Professor Haecker of the Dairy Department everything that can possibly be done. He asserts that "Professor Haecker is doing one of the greatest pieces of research work ever conducted in America." And he urges that Professor Haecker be furnished full facilities for prosecuting his "intensely interesting and important work." I have no doubt that the amount called for is needed for the construction of a barn "suitable for investigating milk-production, feeding and rearing of dairy stock and instruction work in the School and College of Agriculture, and the purchase of stock with which to experiment." The dairy industry is one of the greatest sources of income to Minnesota, the total annual returns from this industry being twenty-six millions of dollars. The successful development of this industry is due in no small degree to the Dairy Department of the University, and the further equipment of this department as proposed will add largely to its usefulness.

### **BUILDING FOR DENTISTRY AND PHARMACY NEEDED.**

The College of Dentistry is crowded beyond all reason, and even thus is obliged to turn men away who desire to enter as students. The College of Pharmacy has never had sufficient room for its work. The most imperative need of the University at the present time is a Building to accommodate these two colleges, the cost of building and equipment to be one hundred thousand dollars, and I recommend that an appropriation of that amount for the purpose named be asked of the legislature.

### **THE LIBRARY.**

I have already presented to the Board the special report made by Librarian Gerould respecting the condition and needs of the library. I fully appreciate the force of all that he has said. It is impossible to meet at once all the wants of the Library; but at least proper provision should be made for the purchase of books and for preparing a suitable Catalog, and for these purposes alone a decided in-

crease in the appropriation for the Library should be asked for. I commend most heartily the Librarian's proposal to bring all the department and separate college libraries under the superintendence of the University Librarian.

### **PROVISION FOR AGED PROFESSORS OF LONG SERVICE.**

A question which must be considered is what disposition shall be made of professors when they reach an age at which they ought to be relieved from further work. The salaries that have been paid to professors in the University of Minnesota have not been large enough to furnish adequate support and enable professors to accumulate sufficient property to support them after their salaries are discontinued. It is not desirable that professors should in all cases be continued in office till death calls them away. It is cruel to turn them out of office after years of faithful service without any provision for their future maintenance. The generosity of Andrew Carnegie has provided a fund of ten millions of dollars the income from which is to be applied in pensioning aged professors of colleges not denominational who have served a specified number of years, the pension to each being in a certain ratio to the salary received when the professor resigned his Chair. But it does not now appear probable that this fund will be available for State Institutions, Mr. Carnegie taking for granted or assuming as probable that the different states will provide pensions for their own professors when by reason of age they are compelled to relinquish their work. California, I believe, has already by law established a system of pensions for retiring professors who have taught a certain number of years and have reached the age designated for retiring. It is difficult to determine exactly at what age professors ought to be retired—because men differ so much in mental vigor, some losing power early and others holding their mental strength to a much more advanced age. Cornell University has, I believe, fixed the limit at sixty-five. Generally speaking it would seem that seventy would not be an unreasonable limit. It seems to me that the state ought to make some provision for the comfort of retired professors for the few years that remain to them and the Regents of the University be relieved from the embarrassment of either retaining in service professors who are too old for work or of turning them out without any means of support. The state of Minnesota is a rich state and it can afford to be both generous and just to its faithful professors who have spent most of

their lives in its service at very inadequate compensation. I earnestly recommend that the Regents carefully consider this matter and bring it to the attention of the legislature. The number of pensioners would never be large, and the number of years any one would receive a pension would be few, for when men reach the age of seventy the end is usually not far off. It is probable that in no one year would the state be required to pay in pensions an amount exceeding one half cent for each inhabitant of the state. And I have very much misjudged the character of the people of Minnesota if any considerable number of them would object to such an expenditure for the comfort of aged professors in the last few years of their lives. I know that with such provision as is proposed, which the state can make without feeling it at all, the University can be greatly helped, its younger professors will work with new zeal as they realize that when their work is done they will still be cared for, and the older professors will contemplate with composure the inevitable ending of their labors because they will not be permitted to suffer want.

Inasmuch as it is made my duty by the law of the State to report to the Board of Regents the "nature and results of all important experiments and investigations," I submit herewith the report of the Dean of the School of Chemistry which gives in a very lucid way a brief summary of the research work which has been done under Dean Frankforter's direction in the chemical laboratory of the University of Minnesota during the past two years.

CYRUS NORTHROP,

President of the University of Minnesota.

**REPORT OF THE DEAN OF SCHOOL OF CHEMISTRY.**

President Cyrus Northrop,  
University of Minnesota,  
Minneapolis, Minn.

Dear Sir:

According to your request I hand you a brief summary of the research work which has been done in the Chemical Laboratory of the University of Minnesota during the past two years. The work which I have been carrying on during this period has covered a very wide range of chemistry. A part of the work has been purely scientific, a part physical and a part industrial.

**PITCH AND TURPENTINE.**

I have with the assistance of graduate students continued the work which I began several years ago on colophonium and the terpenes in the pines of the north and in the firs of the west. A number of the papers have already been published on this subject in the chemical journals. Several more are either in press or nearly finished.

That which I have accomplished up to the present time may be briefly stated as follows:

1st. An exhaustive analysis of the wood of the Norway pine and the Douglass fir with regard to their physical properties and chemical composition.

2nd. The discovery of a new Turpentine and a new acid in the pitch.

3rd. The discovery of the Chlor-hydrochlorides, a series of new compounds in both the new and the common turpentines.

4th. The discovery of a practical process for the removal of both pitch and turpentine from pine stumps and other waste pitchy material.

**FORMALDEHYDE.**

In addition to the above work I have completed two papers on the chemistry of formaldehyde. The first one, a new gasometric method for the determination of formaldehyde was published with Mr. Rodney West in the Journal of the American Chemical Society. The second, a process of liberating formaldehyde gas from an



aqueous solution of formaldehyde by means of potassium permanganate, a process which may be used advantageously for disinfecting purposes. This has also been published with Mr. Rodney West.

### **ABSORBED OXYGEN IN WATER.**

Another line of work which has been completed is a colorimetric method for the determination of absorbed oxygen in water. This method shortens and simplifies the sanitary analysis of water. This is important since oxygen is now regarded as an important factor in determining the sanitary properties of water. By this method oxygen may be determined with great accuracy without the complex apparatus formerly used.

### **CURARE.**

Another topic which has been under discussion during the past two years is the alkaloid curare or the Indian arrow poison. (A paper on this topic was read before the American Chemical Society last June.) This work was begun with the idea of clearing up some of the false statements made concerning this wonderful substance. The work is still in progress and other papers will follow during the present year.

In addition to the above work topics along the line of industrial chemistry has been presented during the past two years.

### **WATER.**

I have with the co-operation of the Geological Survey of the United States Government worked on the industrial analysis of the waters of Minnesota and of the Mississippi River System. The object of this work is two-fold.

First, to determine the erosion of the Mississippi River System. That is, to determine by a series of chemical analyses, the nature of the substance carried out of the State of Minnesota by the Mississippi River and finally the nature of the substance deposited into the Gulf of Mexico with the various changes in the nature of this dissolved substance during the course of the water from Minnesota to the Gulf.

Second, to determine the properties of water of the state from the industrial standpoint. This work is only begun and can be completed only after several years of labor.

### PEAT INVESTIGATIONS.

Another important industrial problem which was taken up some years ago and continued during the past two years is the chemical composition of the peat in Minnesota. It has long since been known that there are rich beds of peat within the bounds of our state, but very little has been done either to develop the peat industry or to determine the industrial value of this substance. I have therefore made a number of analyses of peat from the various localities and am engaged at present in carrying on this work. From what has been done at the present time, I feel absolutely sure that in the not distant future these great peat beds of the state will be utilized in furnishing part of our fuel.

### LIGNITE.

I have during the past two years carried on an exhaustive examination of the lignites of the northwest. The object of this investigation has been both scientific and industrial. Lignite like peat can only be used at the present time in a very limited way. The lignites of the Dakotas are simply waiting until the chemist can discover some simple process of briquetting, when they will compete favorably with the bituminous coal of the central and eastern states.

These with a few other minor subjects have occupied my attention outside of my regular work during the past two years. I have the honor to submit to you this brief report and beg to remain,

Yours very truly,

G. B. FRANKFORTER,  
Dean of the School of Chemistry,  
University of Minnesota.

**SUMMARY OF APPROPRIATIONS ASKED.**

For Current Expense, Annually.....	\$100,000.00
Library, Annually.....	10,000.00
Periodicals and Binding, Annually.....	2,500.00
Campus Improvement, Annually.....	5,000.00
General Repairs, Annually.....	15,000.00
Cataloguing the Library, Annually.....	2,500.00
Main Engineer & Mechanical Building & Mechanical Laboratory.....	250,000.00
Building for Pharmacy and Dental College.....	100,000.00
House for Superintendent of Buildings and Grounds.....	3,500.00
Remodeling and Fireproofing Laboratory of Medical Sciences.....	25,000.00
Laboratory for Plant House and Garden.....	7,000.00
Laying water mains on Campus and connecting with City Mains.....	5,500.00
Tunnel from Building of Public Health and Pathology to Board of Health Building.....	3,000.00
Remodeling and Equipment of Dairy Hall.....	20,000.00
Dairy Barn.....	20,000.00
Extension and Addition to Power House.....	12,000.00
Purchase of Land for School & Station.....	85,000.00
Sewage and Connection with St. Paul Sewer System.....	12,000.00
Live Stock.....	9,000.00
Breeding of Field Crop.....	7,000.00
Horticultural Plant Breeding.....	3,000.00
Soil Investigation.....	3,000.00
Improvement of Campus at School of Agriculture.....	2,500.00
Military Science, Annually.....	600.00

**FINANCIAL STATEMENT.**

Minneapolis, August 1st, 1906.

Hon. James T. Wyman,  
President of the Board of Regents.

Sir: I herewith submit the Financial Report of the University of Minnesota for the fiscal years commencing August 1st, 1904 and ending July 31st, 1906.

JOSEPH D. BREN,  
Cashier University of Minnesota.

**CURRENT EXPENSES.****General Statement of Receipts and Disbursements for the Fiscal Year Ending July 31, 1906.****Receipts.**

Balance on hand August 1, 1904.....	\$	9,073.21
From Grants made by the U. S. Government:		
Approved March 2, 1861, and July 2, 1862, being interest on the Bonds of various states in which the resulting funds are invested.....	\$	52,982.44
Interest on Bank Deposits.....		1,005.10
U. S. Treasurer, Hatch Fund.....		15,000.00
U. S. Treasurer, Morrill Fund.....		25,000.00
Total from the U. S. Government.....	\$	93,987.54
From State Appropriations:		
23-100 of one mill Revenue Tax.....	\$	189,442.71
Deficiency Appropriation.....		45,000.00
Total from the State.....	\$	234,442.71
From the University:		
Fees University.....	\$	126,071.80
Farm sales and other Miscellaneous Receipts.....		32,435.02
Total from the University.....	\$	158,506.82
Total Receipts.....	\$	496,010.28

## Disbursements.

By paid Expense Lists of 1904-5 as per Detailed Statement		
By paid Bills contracted prior to August 1, 1903.....	\$454,604.25	992.08
Total Disbursements .....		<u>\$455,596.33</u>
Balance on hand July 31st, 1905.....		\$ 40,413.95

## UNIVERSITY OF MINNESOTA.

## Detailed Statement of Receipts for the Fiscal Year Ending July 31, 1905.—Current Expense Fund.

Balance on hand August 1, 1904.....		\$ 9,073.21
From U. S. Government Appropriations:		
Interest on Minnesota Village Bonds.....	\$ 5,699.93	
Interest on Delaware Bonds.....	3,930.00	
Interest on Massachusetts Bonds.....	3,900.00	
Interest on Tennessee Bonds.....	3,600.00	
Interest on Alabama "A" Consols.....	2,150.00	
Interest on Virginia Bonds.....	14,605.00	
Interest on Minnesota Bonds.....	3,570.00	
Interest on Bank Deposits.....	1,005.00	
Interest on Land Contracts.....	\$15,880.42	
Less fees paid County Treasurers.....	352.91	
	15,527.51	
Income from Permanent Productive Fund.....	53,987.54	
From U. S. Treasurer, Hatch Fund.....	15,000.00	
From U. S. Treasurer, Morrill Fund.....	25,000.00	
Total from U. S. Government.....		93,987.54
From State Appropriations:		
23-100 of one mill Revenue Tax.....	189,442.71	
Deficiency Appropriation.....	45,000.00	
Total from the State.....		234,442.71
From the University:		
Student's Fees.....	126,071.80	
Experiment Station, sales of Farm Products.....	5,971.03	
School of Agriculture, Fees, Sales, Etc.....	8,048.09	
Dental Infirmary Receipts.....	14,508.51	
Minnetonka Fruit Farm, Sale of Lots.....	500.00	
Miscellaneous items as follows:		
Refund on paid bills.....	2,412.78	
Free Dispensary Receipts.....	476.35	
Material sold.....	21.96	
Breakage.....	50.20	
Telephone Messages.....	15.29	
Locker Fund.....	216.50	
Interest on daily balance.....	18.91	
Work done for outside parties.....	17.65	
Miscellaneous items.....	177.75	
Total from the University.....		158,506.82
Grand Total.....		<u>\$496,010.28</u>

## DISBURSEMENTS BY EXPENSE LISTS.

## Current Expenses, 1904-05.

	University	Farm	University	Farm	Total
	Pay Roll	Pay Roll	Bills	Bills	
August					
University pay roll,	\$3884.44				\$3884.44
Farm pay roll		\$5498.79			\$5498.79
University bills			\$321.53		321.53
Farm bills				\$27.02	27.02
September					
University pay roll,	25117.47				25117.47
Farm pay roll		5701.90			5701.90
University bills			6632.06		6632.06

	Farm bills			414.08	414.08	
October						
	University pay roll,	25825.01			25825.01	
	Farm pay roll		7279.24		7279.24	
	University bills			10178.73	10178.73	
	Farm bills			2457.36	2457.36	
November						
	University pay roll,	25822.40			25822.40	
	Farm pay roll		7474.84		7474.84	
University bills				6865.61	6865.61	
Farm bills				3372.00	3372.00	
December						
	University pay roll,	25498.64			25498.64	
	Farm pay roll		7701.60		7701.60	
	University bills			10241.75	10241.75	
	Farm bills			4839.85	4839.85	
January						
	University pay roll,	26457.53			26457.53	
	Farm pay roll		7297.81		7297.81	
	University bills			9595.63	9595.63	
	Farm bills			4862.90	4862.90	
February						
	University pay roll,	25336.53			25336.53	
	Farm pay roll		7092.18		7092.18	
	University bills			7485.47	7485.47	
	Farm bills			3870.45	3870.45	
March						
	University pay roll,	26196.79			26196.79	
	Farm pay roll		7194.47		7194.47	
	University bills			6033.48	6033.48	
	Farm bills			3734.04	3734.04	
April						
	University pay roll,	26874.72			26874.72	
	Farm pay roll		5443.65		5443.65	
	University bills			4720.91	4720.91	
	Farm bills			2163.24	2163.24	
May						
	University pay roll,	26986.40			26986.40	
	Farm pay roll		5364.55		5364.55	
	University bills			4700.45	4700.45	
	Farm bills			1909.42	1909.42	
June						
	University pay roll,	26021.19			26021.19	
	Farm pay roll		5831.62		5831.62	
	University bills			2909.94	2909.94	
	Farm bills			1844.60	1844.60	
July						
	University pay roll,	4962.47			4962.47	
	Farm pay roll		5679.99		5679.99	
	University bills			5794.25	5794.25	
	Farm bills			3082.40	3082.40	
	Total	\$268983.44	\$77560.64	\$75482.81	\$32577.36	\$454604.25

**MONTHLY DISTRIBUTION OF EXPENSE LISTS.**

**Current Expense.**

	Pay Rolls	Bills
August Expense List	\$ 9383.23	\$ 348.55
September Expense List	30819.37	7046.14
October Expense List	33104.25	12636.09
November Expense List	33297.24	10237.61
December Expense List	33200.24	15084.60
January Expense List	33755.34	14458.53
February Expense List	32428.56	11355.92
March Expense List	33391.26	9767.52
April Expense List	32318.37	6884.15
May Expense List	32350.95	6609.87
June Expense List	31852.81	4754.54
July Expense List	10642.46	8876.65
	<b>\$346544.08</b>	<b>\$108060.17</b>

**STATEMENT RECEIPTS AND DISBURSEMENTS—COLLEGES**

**Current Expense.**

	Receipts	Disbursements
General University	\$ 3907.39	\$ 66751.82
General Academic	37620.50	129951.79

## FOURTEENTH BIENNIAL REPORT

College of Engineering.....	18237.00	36487.32
College of Law.....	26465.00	20053.45
School of Mines.....	4239.00	7786.83
College of Medicine and Surgery.....	21789.00	52727.07
College of Homeopathy.....	1205.00	2488.20
College of Dentistry.....	27233.51	23535.72
College of Pharmacy.....	3791.30	4684.05
School of Agriculture.....	8048.09	
Experiment Station.....	5971.03	110138.00
	<b>\$158506.82</b>	<b>\$454604.25</b>

## Current Expenses.

## STATEMENT OF DISBURSEMENTS BY DEPARTMENTS

	Pay Rolls	Bills	Totals
General University.....	\$ 36884.22	\$ 29867.60	\$ 66751.82
General Academic (S. Lit. and Art).....	2978.38	234.16	3212.54
Department of Botany.....	6050.00	2054.77	8104.77
Department of Biology.....	6250.00	1719.36	7969.36
School of Chemistry.....	11500.09	6718.49	18218.58
Department of Physics.....	8388.20	889.82	9278.02
Department of Geology.....	4225.00	710.30	4935.30
Department of Political Science.....	7750.00	.35	7750.35
Department of Philosophy.....	4225.00	16.38	4241.38
Department of Astronomy.....	2100.00	.50	2100.50
Department of Mathematics.....	6350.00	61.60	6411.60
Department of History.....	6950.00	25.45	6975.45
Department of Rhetoric.....	9347.00	69.61	9416.61
Department of Pedagogy.....	2425.00	2.90	2427.90
Department of Physical Culture.....	4595.57	260.85	4856.42
Department of Military Science.....	1175.00	184.65	1359.65
Department of English.....	6750.00	.36	6750.36
Department of Greek.....	4550.00	100.00	4650.00
Department of Latin.....	6100.00		6100.00
Department of German.....	6950.00	3.00	6953.00
Department of French.....	5040.00		5040.00
Department of Scandinavian.....	2000.00		2000.00
Department of Sociology.....	1200.00		1200.00
General Engineering.....	7260.33	62.37	7322.70
Electrical Engineering.....	4563.20	626.08	5189.28
Mechanical Engineering.....	12232.50	2383.95	14616.45
Civil Engineering.....	5800.00	159.18	5959.18
Department of Drawing.....	3300.00	99.71	3399.71
School of Mines.....	*4482.75	3304.08	7786.83
College of Law.....	17760.00	2293.45	20053.45
General Medicine and Surgery.....	9654.20	1771.97	11426.17
Department of Anatomy.....	5100.00	1288.12	6388.12
Department of Pathology and Bacteriology.....	7127.50	3132.00	10259.50
Department of Medical Chemistry.....	3790.00	1809.59	5599.59
Department of Physiology.....	4900.00	1611.95	6511.95
Department of Histology.....	5509.50	2833.39	8342.89
The Free Dispensary.....	1620.00	2578.85	4198.85
College of Homeopathy.....	1960.00	528.20	2488.20
College of Dentistry.....	16005.00	7530.72	23535.72
College of Pharmacy.....	4135.00	549.05	4684.05
School and Station.....	31510.99	16366.79	47877.78
Department of Agriculture.....	13072.91	4445.93	17518.84
Department of Animal Husbandry.....	6520.08	5441.52	11961.60
Department of Farm Chemistry.....	5549.05	1390.92	6939.97
Department of Dairy Husbandry.....	7271.50	3872.12	11143.62
Department of Entomology.....	2400.00		2400.00
Department of Horticulture.....	7528.43	553.38	8081.81
Department of Veterinary.....	3707.68	506.70	4214.38
	<b>\$346544.08</b>	<b>\$108060.17</b>	<b>\$454604.25</b>

## School of Mines.

	Pay Rolls	Bills
*Note—In addition to amount paid from Current Expense and as above.....	\$ 4482.75	\$ 3304.08
The two special appropriations (School of Mines support and School of Mines Instructors) should be added to expenses of Department.....	8292.25	1223.44
	<b>\$ 12775.00</b>	<b>\$ 4527.52</b>
Making a total of.....		<b>\$ 17302.52</b>

**CURRENT EXPENSE.****Distribution of Accounts.**

	University.	Farm.
1. Salaries .....	\$268,983.44	\$77,560.64
2. Fuel and Lights .....	21,251.05	10,139.05
3. Freight and Express .....	852.60	693.57
4. Postage .....	988.71	948.00
5. Library .....	2,816.26	18.15
6. Stationery and Printing .....	6,359.26	1,790.48
7. Furniture and Fixtures .....	1,593.07	113.75
8. Scientific apparatus and instruments.....	5,217.34	664.98
9. Building .....		
10. Equipment of Buildings.....	742.26	657.92
11. Live Stock.....		902.28
12. Tools, Implements and Machinery.....	1,320.79	
13. Feed .....	375.51	7,370.71
14. Seeds and Plants .....	22.70	345.41
15. Supplies for Instruction and Illustration .....	20,007.02	3,117.85
16. Repairs .....	714.29	340.26
17. Traveling Expenses .....	956.48	408.19
18. Petty Supplies .....	5,683.75	2,928.80
19. Museum .....	97.08	
20. Taxes, Rents, Advertisements .....	5,072.95	1,601.98
21. Publications .....	712.65	4.63
22. Contingent Expenses .....	180.03	9.15
23. Labor Bills .....	941.21	100.00
	<u>\$75,482.81</u>	<u>\$32,577.36</u>

**The Two Statements Combined.**

1. Salaries—Total Salaries .....		\$346,544.08
2. Fuel and Lights .....	\$31,390.10	
3. Freight and Express .....	1,546.17	
4. Postage .....	1,936.71	
5. Library .....	2,834.41	
6. Stationery and Printing .....	8,149.74	
7. Furniture and Fixtures .....	1,706.82	
8. Scientific Apparatus and Instruments .....	5,882.32	
9. Equipment of Buildings.....	1,400.18	
10. Live Stock .....	902.28	
11. Tools, Implaments and Machinery .....	1,320.79	
12. Feed .....	7,746.22	
13. Seeds and Plants .....	368.11	
14. Supplies for Instruction and Illustration .....	23,124.87	
15. Repairs .....	1,054.55	
16. Traveling Expenses .....	1,364.67	
17. Petty Supplies .....	8,612.55	
18. Museum .....	97.08	
19. Taxes, Rents and Advertisements .....	6,674.93	
20. Publications .....	717.28	
21. Contingent Expenses .....	189.18	
22. Labor Bills .....	1,041.21	
		<u>\$108,060.17</u>
Total Bills .....		
Grand Total University and Farm .....		<u>\$454,604.25</u>

**SPECIAL APPROPRIATIONS.****Repairs University.**

Balance August 1, 1904 .....	\$802.61	
Appropriation 1904-5 .....	6,666.67	
Total .....	7,469.28	
Expended during year 1904-5 .....	3,737.42	
Balance July 31, 1905 .....		\$3,731.86

**Repairs, School of Agruculture.**

Balance August 1, 1904 .....	\$34.79	
Appropriation 1904-5 .....	3,333.33	
<b>Total</b> .....	<b>\$3,368.12</b>	
Expended during year 1904-5 .....	3,002.39	
Balance July 31, 1905 .....		\$365.73

**Campus Improvement.**

Balance August 1, 1904 .....	\$11.03	
Appropriation 1904-5 .....	3,000.00	
<b>Total</b> .....	<b>\$3,011.03</b>	
Expended during year 1904-5 .....	2,292.44	
Balance July 31, 1905 .....		\$718.59

**Library.**

Appropriation 1904-5 .....	\$5,000.00	
Expended during year 1904-5 .....	4,276.34	
Balance July 31, 1905 .....		\$723.66

**School of Mines Instructors.**

Appropriation 1904-5 .....	\$4,500.00	
Expended during year 1904-5 .....	4,500.00	

**School of Mines Support**

Balance August 1, 1904 .....	\$15.69	
Appropriations 1904-5 .....	5,000.00	
<b>Total</b> .....	<b>\$5,015.69</b>	
Expenditure during year 1904-5 .....	5,015.69	

**Mines Building.**

Balance August 1, 1904 .....	\$1,879.06	
Expended during year 1904-5 .....	1,842.96	
Balance July 31, 1905 .....		\$36.10

**Physical Laboratory.**

Balance August 1, 1904 .....	\$3,670.10	
Expended during year 1904-5 .....	2,169.14	
Balance July 31, 1905 .....		\$1,500.96

**Law Building.**

Balance August 1, 1904 .....	\$249.03	
Expended during year 1904-5 .....	96.69	
Balance July 31, 1905 .....		\$152.34



**Chemistry Building Deficit.**

Balance August 1, 1904 .....	\$390.79	
Expended during year 1904-5 .....	<u>348.33</u>	
Balance July 31, 1905 .....		\$42.46

**Engineering and Mechanic Arts Building.**

Balance August 1, 1904 .....	\$7.42	
Balance Canceled .....	<u>7.42</u>	

**Printing.**

Balance August 1, 1904 .....	\$315.02	
Expended during year 1904-5 .....	<u>          </u>	
Balance July 31, 1905 .....		\$315.02

**Veterinary and Live Stock Building.**

Balance August 1, 1904 .....	\$430.81	
Expended during year 1904-5 .....	<u>218.09</u>	
Balance July 31, 1905 .....		\$212.72

**Girls' Dormitory.**

Balance August 1, 1904 .....	\$2.27	
Balance Canceled .....	<u>2.27</u>	

**Dairy Hall.**

Balance August 1, 1904 .....	\$4.54	
Balance Canceled .....	<u>4.54</u>	

**Agricultural Chemistry Building.**

Balance August 1, 1904 .....	\$291.96	
Expended during year 1904-5 .....	<u>272.00</u>	
Balance July 31, 1905 .....		\$19.96

**Machinery Building.**

Balance August 1, 1904 .....	\$435.66	
Expended during year 1904-5 .....	<u>151.00</u>	
Balance July 31, 1905 .....		\$284.66

**Boys' Dormitory.**

Balance August 1, 1904 .....	\$981.39	
Expended during year 1904-5 .....	<u>702.41</u>	
Balance July 31, 1905 .....		\$278.98

**Medical Building Insurance.**

Balance August 1, 1904 .....	\$694.84	
Expended during year 1904-5 .....	114.50	
Balance July 31, 1905 .....		\$580.34

**Agricultural College Buildings**

Balance August 1, 1904 .....	\$40,588.37	
Appropriation year 1904-5 .....	199,190.03	
Total .....	\$239,778.40	
Expended during year 1904-5 .....	23,104.67	
Balance July 31, 1905 .....		\$216,673.73

**Engineering and Electric Light Plant.**

Appropriation year 1904-5 .....	\$40,000.00	
Miscellaneous Receipts .....	3.90	
Total .....	40,003.90	
Expended during year 1904-5 .....	25,145.85	
Balance July 31, 1905 .....		\$14,858.05

**Bacteriological Laboratory.**

Appropriation year 1904-5 .....	\$60,000.00	
Expended during year 1904-5 .....	1,703.19	
Balance July 31, 1905 .....		\$58,296.81

**Grand Rapids Support.**

Balance August 1, 1904 .....	\$682.25	
Appropriation year 1904-5 .....	4,000.00	
Miscellaneous Receipts .....	1,080.47	
Total .....	\$5,762.72	
Expended during year 1904-5 .....	4,979.68	
Balance July 31, 1905 .....		\$783.04

**Crookston Support.**

Balance August 1, 1904 .....	\$253.52	
Appropriation year 1904-5 .....	6,000.00	
Miscellaneous Receipts .....	936.70	
Total .....	\$7,190.22	
Expended during year 1904-5 .....	7,037.37	
Canceled by State Auditor .....	24.40	
Balance July 31, 1905 .....		\$128.45

**Crookston Drainage.**

Balance August 1, 1904 .....	\$3,867.72	
Expended during year 1904-5 .....	22.60	
Balance July 31, 1905 .....		\$3,845.12

**Crookston Stock.**

Balance August 1, 1904 .....	\$853.85	
Expended during year 1904-5 .....	<u>500.00</u>	
Balance July 31, 1905 .....		\$353.85

**Fire Loss Main Building—Building.**

Insurance Collected during year 1904-5 .....	\$58,000.00	
Expended during year 1904-5 .....	<u>          </u>	
Balance July 31, 1905 .....		\$58,000.00

**Fire Loss Main Building—Contents.**

Insurance Collected during year 1904-5 .....	\$5,000.00	
Expended during year 1904-5 .....	<u>2,802.42</u>	
Balance July 31, 1905 .....		\$2,197.57

**Fire Loss Mechanic Arts Building—Building.**

Insurance Collected during year 1904-5 .....	\$1,409.00	
Expended during year 1904-5 .....	<u>1,404.06</u>	
Balance July 31, 1905 .....		\$4.94

**Fire Loss Mechanic Arts Building—Contents.**

Insurance Collected during year 1904-5 .....	\$3,646.31	
Expended during year 1904-5 .....	<u>3,574.22</u>	
Balance July 31, 1905 .....		\$72.09

# CURRENT EXPENSE

## GENERAL STATEMENT OF RECEIPTS AND DISBURSEMENTS FOR THE YEAR ENDING JULY 31, 1906.

### Receipts.

Auditor's Balance August 1, 1905.....			\$15,428.12
Taxes and other Receipts of 1905, Received after August 1..	\$44,813.35		
Less June and July Bills paid after August 1..	\$ 9,185.06		
Less July Pay Roll paid after August 1.....	10,642.46	19,827.52	24,985.83
True Balance August 1, 1905.....			\$40,413.95
From the U. S. Government:—			
Grants made by the Government approved March 2, 1861, and July 2, 1862, being interest on the Bonds of various States in which the resulting funds are invested.....	\$53,310.49		
Less fees paid to County Treasurers, etc	220.72	\$53,089.77	
Interst on Bank Deposits .....		707.79	
U. S. Treasurer, Hatch Fund.....		15,000.00	
U. S. Treasurer, Morrill Fund.....		25,000.00	
Total from the U. S. Government.....			\$93,797.56
From State Appropriations:—			
23-100 of one mill Revenue Tax.....	\$191,464.20		
Deficiency Appropriation .....	60,000.00		
Total from the State.....			\$251,464.20
From the University:—			
From Students' Fees.....	\$126,787.95		
Dental Infirmary Receipts.....	11,071.00		
Miscellaneous Receipts.....	2,209.99		
School of Agriculture—Sales and Fees.....	8,593.82		
The Experiment Station—Sales.....	7,829.02		
Total from the University.....			\$156,491.78
Total Receipts.....			\$542,167.49
<b>Disbursements.</b>			
By paid Pay Rolls, as per detailed statement.....	\$363,975.22		
By paid University Bills as per detailed statement....	112,762.04		
Total .....			\$476,737.26

UNIVERSITY BOARD OF REGENTS

45

True Balance August 1, 1906.....			\$ 65,430.23
Receipts turned into Treasury after August 1.....	\$40,091.96		
Receipts from Kitchen and Dining Hall Fund to re- place amount advanced from Current Expense Fund..	2,045.46		
Balance unexpended in Coal Fund.....	4,794.66		
<b>Total Receipts</b> .....	<b>\$46,932.68</b>		
Disbursements.			
University Bills paid after August 1.....	\$14,821.38		
Agams Bill Appropriated.....	6,750.00	\$21,571.38	\$25,360.70
<b>Balance</b> .....			<b>\$40,069.53</b>
Deduct Revolving Fund.....			2,800.00
Auditor's Balance August 1, 1906.....			<b>\$37,269.53</b>

**Detailed Statement of Receipts.**

**For the Fiscal Year Ending July 31, 1906.**

**CURRENT EXPENSE.**

Balance on hand August 1, 1905.....			\$40,413.95
From U. S. Government Appropriations:—			
Interest on Minnesota Village Bonds.....	\$ 6,136.50		
Interest on Delaware Bonds.....	3,930.00		
Interest on Massachusetts Bonds.....	3,900.00		
Interest on Tennessee Bonds.....	3,600.00		
Interest on Alabama "A" Consols.....	2,150.00		
Interest on Virginia Funding Bonds.....	10,650.00		
Interest on Minnesota Funding Bonds.....	6,737.50		
Interest on Bank Deposits.....	707.79		
Interest on Land Contracts.....	\$16,206.49		
Less fees paid to County Treasurers... ..	220.72	15,985.77	
<b>Total Income from Permanent Funds.....</b>	<b>\$53,797.56</b>		
From U. S. Treasurer, Hatch Bill Appropriation.....	15,000.00		
From U. S. Treasurer, Morrill Bill Appropriation.....	25,000.00		
<b>Total from U. S. Government.....</b>			<b>93,797.56</b>
From State Appropriations:—			
23-100 of one mill Revenue Tax.....	\$191,464.20		
Deficiency Appropriation .....	60,000.00		
<b>Total from the State.....</b>			<b>\$251,464.20</b>
From the University:—			
Students' Fees .....	\$126,787.95		
Dental Infirmary receipts.....	11,071.00		
School of Agriculture—Fees and Sales.....	8,593.82		
The Experiment Station—Sales.....	7,829.02		
Miscellaneous items as follows:—			
Rent of Armory.....	60.00		
Work done for outside parties.....	21.07		
Locker Fund .....	154.00		
Telephone Receipts .....	17.21		
Breakage .....	3.90		
Material Sold.....	553.68		
Free Dispensary Receipts .....	359.60		
Refund on paid Bills.....	1,001.92		
Miscellaneous .....	58.61		
<b>Total from University .....</b>			<b>\$156,491.78</b>
<b>Total Receipts .....</b>			<b>\$542,167.49</b>

**CLASSIFICATION OF UNIVERSITY PAY ROLL AND BILLS**  
**YEAR 1905-6 BY DEPARTMENTS.**  
**CURRENT EXPENSE.**

Department.	Pay Roll	Bills.	Totals
General University .....	\$ 38,322.26	\$ 29,048.96	\$ 67,371.22
Botany .....	6,175.00	2,566.70	8,741.70
Biology .....	7,400.00	1,670.91	9,070.91
Physics .....	8,961.44	1,297.21	10,258.65
School of Chemistry .....	12,295.00	7,837.16	20,132.16
Science, Lit. and Arts .....	3,155.16	291.37	3,446.53
Geology .....	4,650.00	750.15	5,400.15
Military Science .....	1,175.00	277.99	1,452.99
Physical Culture .....	4,605.00	212.63	4,817.63
College of Education .....	3,434.98	517.95	3,952.93
Rhetoric .....	9,100.00	72.50	9,172.50
English .....	6,305.00	64.11	6,369.11
German .....	8,200.00	2.70	8,202.70
Greek .....	4,550.00	.....	4,550.00
Latin .....	6,100.00	.....	6,100.00
French .....	5,700.00	.....	5,700.00
Scandinavian .....	2,000.00	.....	2,000.00
Political Science .....	7,750.00	.32	7,750.32
Philosophy .....	3,650.00	16.25	3,676.25
Mathematics .....	6,800.00	7.08	6,807.08
Astronomy .....	2,100.00	26.54	2,126.54
History .....	7,450.00	66.13	7,516.13
Sociology .....	1,350.00	.....	1,350.00
Law .....	18,030.00	2,979.74	21,009.74
General Engineering .....	8,160.00	240.13	8,400.13
Mechanical Engineering .....	13,271.60	2,396.77	15,668.37
Mechanical Engineering .....	13,271.60	2,396.77	15,668.37
Civil and Structural Engineering .....	6,240.00	410.25	6,650.25
Drawing Engineering .....	3,370.00	68.97	3,438.97
Medicine and Surgery .....	10,651.00	2,195.25	12,846.25
Histology .....	6,209.99	3,227.40	9,437.39
Physiology .....	4,960.00	1,184.22	6,144.22
Bacteriology .....	7,635.50	2,633.64	10,269.14
Anatomy .....	5,100.00	1,522.42	6,622.42
Medical Chemistry .....	4,800.00	2,362.03	7,162.03
Free Dispensary .....	1,748.00	2,492.31	4,240.31
Homeopathy .....	1,900.00	418.71	2,318.71
Pharmacy .....	4,584.99	1,355.29	5,940.28
Dentistry .....	15,315.00	6,072.14	21,387.14
School of Mines .....	4,360.00	4,353.79	8,713.79
School and Station .....	33,857.68	15,728.72	49,586.40
Agriculture .....	13,218.78	4,818.75	18,037.53
Animal Husbandry .....	6,169.32	5,722.86	11,892.18
Dairy Husbandry .....	8,131.58	4,198.28	12,329.86
Farm Chemistry .....	6,168.20	1,337.09	7,505.29
Horticulture .....	7,570.54	598.92	8,169.46
Entomology .....	2,477.65	36.10	2,513.75
Veterinary .....	3,928.55	601.24	4,529.79
Total .....	\$363,975.22	\$112,762.04	\$476,737.26

**DISBURSEMENT BY EXPENSE LISTS.**

	Current Expense.				Total
	University Pay Roll	Farm Pay Roll	University Bills	Farm Bills	
August—					
University pay roll .....	\$4,521.52				\$4,521.52
Farm pay roll .....		\$5,524.17			5,524.17
University bills .....			\$1,646.45		1,646.45
Farm bills .....				\$625.85	625.85
September—					
University pay roll .....	26,186.73				26,186.73
Farm pay roll .....		5,514.93			5,514.93
University bills .....			7,235.59		7,235.59
Farm bills .....				1,673.82	1,673.82

UNIVERSITY BOARD OF REGENTS

October—

University pay roll.....	27,241.88	.....	.....	27,241.88
Farm pay roll .....	7,808.87	.....	.....	7,808.87
University bills .....	.....	5,580.62	.....	5,580.62
Farm bills .....	.....	.....	1,790.08	1,790.08

November—

University pay roll.....	27,017.34	.....	.....	27,017.34
Farm pay roll .....	8,341.76	.....	.....	8,341.76
University bills .....	.....	13,810.87	.....	13,810.87
Farm bills .....	.....	.....	3,842.97	3,842.97

December—

University pay roll .....	27,194.60	.....	.....	27,194.60
Farm pay roll .....	7,825.47	.....	.....	7,825.47
University bills .....	.....	6,786.17	.....	6,786.17
Farm bills.....	.....	.....	4,850.41	4,850.41

January—

University pay roll.....	27,067.80	.....	.....	27,067.80
Farm pay roll .....	7,888.33	.....	.....	7,888.33
University bills.....	.....	10,251.08	.....	10,251.08
Farm bills.....	.....	.....	1,339.70	1,339.70

February—

University pay roll.....	26,611.39	.....	.....	26,611.39
Farm pay roll .....	7,601.85	.....	.....	7,601.85
University bills .....	.....	6,348.83	.....	6,348.83
Farm bills .....	.....	.....	3,821.84	3,821.84

March—

University pay roll .....	26,958.10	.....	.....	26,958.10
Farm pay roll .....	7,932.72	.....	.....	7,932.72
University bills .....	.....	6,765.24	.....	6,765.24
Farm bills .....	.....	.....	4,472.02	4,472.02

April—

University pay roll .....	28,139.11	.....	.....	28,139.11
Farm pay roll .....	5,744.93	.....	.....	5,744.93
University bills .....	.....	6,274.97	.....	6,274.97
Farm bills.....	.....	.....	2,028.21	2,028.21

May—

University pay roll.....	28,480.37	.....	.....	28,480.37
Farm pay roll .....	5,770.13	.....	.....	5,770.13
University bills .....	.....	4,662.42	.....	4,662.42
Farm bills .....	.....	.....	2,610.20	2,610.20

June—

University pay roll.....	28,125.71	.....	.....	28,125.71
Farm pay roll .....	5,894.02	.....	.....	5,894.02
University bills .....	.....	4,870.42	.....	4,870.42
Farm bills .....	.....	.....	1,649.40	1,649.40

July—

University pay roll.....	4,910.37	.....	.....	4,910.37
Farm pay roll .....	5,673.12	.....	.....	5,673.12
University bills .....	.....	5,483.42	.....	5,483.42
Farm bills .....	.....	.....	4,341.46	4,341.46

Total .....	\$283,454.92	\$81,520.30	\$79,716.08	\$33,045.96	\$476,737.26
-------------	--------------	-------------	-------------	-------------	--------------

## FOURTEENTH BIENNIAL REPORT

## MONTHLY DISTRIBUTION OF EXPENSE LISTS.

## Current Expenses, 1905-1906.

	Pay Rolls.	Bills.
August Expense List .....	\$10,045.69	\$2,272.30
September Expense Lists .....	31,701.66	8,909.41
October Expense List .....	35,050.75	7,370.70
November Expense List .....	35,359.10	17,653.84
December Expense List .....	35,020.07	11,636.58
January Expense List .....	34,956.13	11,590.78
February Expense List .....	34,213.24	10,170.67
March Expense List .....	34,890.82	11,237.26
April Expense List .....	33,884.04	8,303.18
May Expense List .....	34,250.50	7,272.62
June Expense List .....	34,019.73	6,519.82
July Expense List .....	10,583.49	9,824.38
	<u>\$363,975.22</u>	<u>\$112,762.04</u>

## Statement of Receipts and Disbursements by Colleges for the Year Ending July

## 31, 1906.—Current Expenses.

	Receipts	Disbursements
General University .....	\$2,209.99	\$67,371.22
College of Science, Literature and the Arts .....	38,561.00	138,584.28
College of Engineering .....	20,525.25	40,128.08
College of Law .....	26,107.00	21,009.74
School of Mines .....	3,867.75	8,713.79
College of Medicine and Surgery .....	18,699.00	56,721.76
College of Homeopathy .....	1,306.00	56,721.76
College of Dentistry .....	24,935.00	21,387.14
College of Pharmacy .....	3,856.95	5,940.28
The School of Agriculture .....	8,593.82	57,262.13
Experiment Station .....	7,829.02	57,281.13
	<u>\$156,491.78</u>	<u>\$476,737.26</u>

## CURRENT EXPENSE.

## Distribution of Accounts, 1905-1906.

	University.	Farm.
1. Salaries .....	\$282,454.92	\$81,520.30
2. Fuel and Lights .....	19,704.41	8,049.80
3. Freight and Express .....	1,775.25	524.24
4. Postage .....	1,262.88	713.65
5. Library .....	3,418.24	307.16
6. Stationery and Printing .....	5,679.55	2,842.86
7. Furniture and Fixtures .....	1,705.80	215.76
8. Scientific apparatus and Instruments .....	6,693.53	1,238.96
9. Building .....		
10. Equipment of buildings .....	946.17	115.75
11. Live Stock .....		1,436.58
12. Tools, implements and machinery .....	747.29	871.85
13. Feed .....	1848.60	6874.72
14. Seeds and plants .....	42.04	444.51
15. Supplies for instruction and illustration .....	25830.32	4733.94
16. Repairs .....	536.81	783.64
17. Traveling Expenses .....	809.80	332.86
18. Petty Supplies .....	1047.51	803.83
19. Museum .....	651.10	
20. Taxes, Rents, Advertisements .....	1723.73	1246.01
21. Publications .....	1003.82	502.86
22. Contingent Expenses .....	2075.63	955.23
23. Labor Bills .....	2208.60	51.75
	<u>\$79716.08</u>	<u>\$33045.96</u>



## The Two Statements Above Combined.

1. Salaries.....	Total.....		\$363975.22
2. Fuel and Lights.....		\$27754.21	
3. Freight and Express.....		2299.49	
4. Postage.....		1976.52	
5. Library.....		3725.40	
6. Stationery and Printing.....		8522.41	
7. Furniture and Fixtures.....		1921.56	
8. Scientific Apparatus and Instruments.....		7932.49	
9. Building.....			
10. Equipment of Building.....		1061.92	
11. Live Stock.....		1436.58	
12. Tools, Implements and Machinery.....		1619.14	
13. Feed.....		8723.32	
14. Seeds and Plants.....		486.55	
15. Supplies for Instruction and Illustration.....		30564.26	
16. Repairs.....		1320.45	
17. Traveling Expenses.....		1142.66	
18. Petty Supplies.....		1851.34	
19. Museum.....		651.10	
20. Taxes, Rents, Advertisements.....		2969.74	
21. Publications.....		1511.68	
22. Contingent Expense.....		3030.86	
23. Labor Bills.....		2860.35	
	Total Bills.....	\$112762.04	\$112762.04
	Grand Total University and Farm.....		\$476737.26

## SPECIAL APPROPRIATIONS.

1905-6.

## Repairs University

Balance August 1, 1905.....	\$3,731.86	
Appropriation Year 1905-6.....	6,666.67	
Total.....	\$10,398.53	
Expended during Year 1905-6.....	6,396.51	
Balance July 31, 1906.....		\$4,002.02

## Repairs Farm,

Balance August 1, 1905.....	\$365.73	
Appropriation Year 1905-6.....	3,333.33	
Total.....	\$3,699.06	
Expended during year 1905-6.....	3,055.15	
Balance July 31, 1906.....		\$643.91

## Adam's Research Fund.

U. S. Government Appropriation for Year 1905-6..	\$5,000.00	
Expended during Year 1905-6.....	5,000.00	

## Campus Improvement University.

Balance August 1, 1905.....	\$718.59	
Appropriation Year 1905-6.....	4,000.00	
Total.....	\$4,718.59	
Expended during Year 1905-6.....	4,348.76	
Balance July 31, 1906.....		\$369.83

## FOURTEENTH BIENNIAL REPORT

**Library.**

Balance August 1, 1905 .....	\$723.66	
Appropriation Year 1905-6 .....	5,000.00	
<b>Total</b> .....	<b>\$5,723.66</b>	
Expended during Year 1905-6 .....	3,133.57	
Balance July 31, 1906 .....		\$2,590.09

**School of Mines Instructors.**

Appropriation for 1905-6 .....	\$4,500.00
Expended during Year 1905-6 .....	4,500.00

**School of Mines Support.**

Appropriation for Year 1905-6 .....	\$5,000.00
Expended during Year 1905-6 .....	5,000.00

**Mines Building.**

Balance August 1, 1905 .....	\$36.10	
Expended during year 1905-6 .....	32.00	
Balance Cancelled .....	4.10	
		\$36.10

**Physical Laboratory**

Balance August 1, 1905 .....	\$1,500.96	
Expended during Year 1905-6 .....	109.50	
Balance July 31, 1906 .....		\$1,391.46

**Animal House—Physiology.**

Appropriation available August 1, 1905 .....	\$2,500.00	
Expended during Year 1905-6 .....		
Balance July 31, 1906 .....		\$2,500.00

**Law Building.**

Balance August 1, 1905 .....	\$152.34	
Expended during Year 1905-6 .....	149.85	
Balance July 31, 1906 .....		\$2.49
Balance Cancelled .....		2.49

**Chemistry Building Defect.**

Balance August 1, 1905 .....	\$42.46
Expended during Year 1905-6 .....	42.46

**Campus Memorial.**

Appropriation for Soldiers' Monument .....	\$500.00
Expended during Year 1905-6 .....	500.00

## UNIVERSITY BOARD OF REGENTS

51

**Officers Band Corps.**

Appropriation for Year 1905-6 .....	\$600.00	
Expended during Year 1905-6 .....	569.63	
	<hr/>	
Balance July 31, 1906 .....		\$30.37

**Machinery—School of Mines.**

Appropriation for Year 1905-6 .....	\$2,000.00	
Expended during Year 1905-6 .....	1,830.66	
	<hr/>	
Balance July 31, 1906 .....		\$169.34

**Printing.**

Balance August 1, 1905 .....	\$315.02	
Receipts from Books sold .....	142.40	
	<hr/>	
Total .....	\$457.42	
Expended during Year 1905-6 .....	\$457.42	
	<hr/>	

**Veterinary and Live Stock Building.**

Balance August 1, 1905 .....	\$212.72	
Expended during Year 1905-6 .....	15.95	
	<hr/>	
Balance July 31, 1906 .....		\$196.77

**Live Stock, School of Agriculture.**

Appropriation for 1905-6 .....	\$4,500.00	
Expended during Year 1905-6 .....	2,766.80	
	<hr/>	
Balance July 31, 1906 .....		\$1,733.20

**Campus Repairs, School of Agriculture.**

Appropriation for Year 1905-6 .....	\$500.00	
Expended during Year 1905-6 .....	252.77	
	<hr/>	
Balance July 31, 1906 .....		\$247.23

**Agricultural Chemistry Building.**

Balance August 1, 1905 .....	\$19.96	
Expended during Year 1905-6 .....	5.00	
	<hr/>	
Balance July 31, 1906 .....		\$14.96

**Plant Breeding, School of Agriculture.**

Appropriation for Year 1905-6 .....	\$4,000.00	
Expended during Year 1905-6 .....	2,258.73	
	<hr/>	
Balance July 31, 1906 .....		\$1,741.27

**Machinery Building.**

Balance August 1, 1905 .....	\$284.66	
Expended during Year 1905-6 .....		
	<hr/>	
Balance July 31, 1906 .....		\$284.66

## FOURTEENTH BIENNIAL REPORT

**Boys' Dormitory.**

Balance August 1, 1905 .....	\$278.98	
Expended during Year 1905-6 .....	270.00	
	<hr/>	
Balance July 31, 1906 .....		\$8.98

**Medical Building Insurance.**

Balance August 1, 1905 .....	\$580.34	
Expended during Year 1905-6 .....	176.42	
	<hr/>	
Balance July 31, 1906 .....		\$403.92

**Bacteriological Laboratory Building.**

Balance August 1, 1905 .....	\$58,296.81	
Appropriation for 1905-6 .....	60,000.00	
Miscellaneous Receipts .....	398.99	
Total .....	<hr/>	
Expended during Year 1905-6 .....	\$67,145.27	\$118,695.80
Transferred to Equipment Fund .....	20,000.00	87,145.27
	<hr/>	
Balance July 31, 1906 .....		\$31,550.53

**Soil Investigation, School of Agriculture.**

Appropriation for Year 1905-6 .....	\$1,000.00	
Expended during Year 1905-6 .....	750.64	
	<hr/>	
Balance July 31, 1906 .....		\$249.36

**Water Tower and Tank, School of Agriculture.**

Appropriation for Year 1905-6 .....	\$5,500.00	
Expended during Year 1905-6 .....		
	<hr/>	
Balance July 31, 1906 .....		\$5,500.00

**Reel and Hose, School of Agriculture.**

Appropriation for Year 1905-6 .....	\$1,000.00	
Expended during Year 1905-6 .....	555.00	
	<hr/>	
Balance July 31, 1906 .....		\$445.00

**Grand Rapids Support.**

Balance August 1, 1905 .....	\$783.04	
Appropriation for Year 1905-6 .....	4,000.00	
Miscellaneous Receipts .....	2,021.91	
Total .....	<hr/>	
Expended during Year 1905-6 .....	\$6,804.95	
	4,973.41	
	<hr/>	
Balance July 31, 1906 .....		\$1,831.54

**Crookston Support.**

Balance August 1, 1905 .....	\$128.45	
Appropriation Year 1905-6 .....	8,000.00	
Miscellaneous Receipts .....	2,398.05	
	<hr/>	

## UNIVERSITY BOARD OF REGENTS

53

Total .....	\$10,526.50	
Expended during 1905-6 .....	8,918.63	
Balance July 31, 1906 .....		\$1,607.87

**Grand Rapids Dairy Building.**

Appropriation Year 1905-6 .....	\$2,000.00	
Expended during 1905-6 .....	1,943.70	
Balance July 31, 1906 .....		\$56.30

**Crookston Drainage.**

Appropriation year 1905-6 .....	\$15,000.00	
Appropriation Year 1905-6 .....	4,000.00	
Total .....	\$7,845.12	
Expended during Year 1905-6 .....	149.78	
Balance July 31, 1906 .....		\$7,695.34

**Crookston Stock.**

Balance August 1, 1905 .....	\$353.85	
Expended during Year 1905-6 .....	51.75	
Balance July 31, 1906 .....		\$302.10

**Crookston School Building.**

Appropriation year 1905-6 .....	\$15,000.00	
Expended during Year 1905-6 .....	13,637.27	
Balance July 31, 1906 .....		\$1,362.73

**Agricultural College Buildings**

Balance August 1, 1905 .....	\$216,673.73	
Expended during Year 1905-6 .....	35,835.39	
Balance July 31, 1906 .....		\$180,838.34

**Fire Loss Main Building—Contents.**

Balance August 1, 1905 .....	\$2,197.57	
Expended during Year 1905-6 .....	1,608.21	
Balance July 31, 1906 .....		\$589.36

**Fire Loss Mechanic Arts Building—Building.**

Balance August 1, 1905 .....	\$4.94	
Expended during Year 1905-6 .....		
Balance July 31, 1906 .....		\$4.94

**Fire Loss Mechanic Arts Building—Contents.**

Balance August 1, 1905 .....	\$72.09	
Expended during Year 1905-6 .....		
Balance July 31, 1906 .....		72.09

## FOURTEENTH BIENNIAL REPORT

**Anatomy Building—Insurance.**

Insurance collected during year 1905-6.....	\$2,107.40	
Expended during year 1905-6.....	<u>1,750.08</u>	
Balance July 31, 1906 .....		357.32

**University Periodicals.**

Appropriation Year 1905-6 .....	\$1,500.00	
Expended during Year 1905-6 .....	<u>1,328.01</u>	
Balance July 31, 1906.....		\$171.99

**Main Building—University.**

Appropriation Year 1905-6 .....	\$200,000.00	
Insurance Collected on Old Main Building .....	<u>58,000.00</u>	
Total .....	\$258,000.00	
Expended during Year 1905-6.....	\$30,288.15	
Transferred to Equipment fund .....	<u>38,456.00</u>	68,744.15
Balance July 31, 1906 .....		\$189,255.85

**New Plant Building—Botany.**

Appropriation Year 1905-6 .....	\$10,000.00	
Expended during Year 1905-6 .....	\$173.89	
Transferred to Equipment Fund .....	250.00	<u>423.89</u>
Balance July 31, 1906.....		\$9,576.11

**New Plant Building Botany Equipment.**

Transferred for Equipment .....	\$250.00	
Expended during Year 1905-6 .....	<u>          </u>	
Balance July 31, 1906.....		\$250.00

**Power House Building—University.**

Appropriation Year 1905-6 .....	\$20,000.00	
Expended during Year 1905-6 .....	<u>288.23</u>	
Balance July 31, 1906 .....		\$19,711.77

**Bacteriological Laboratory—Equipment.**

Appropriation Year 1905-6 .....	\$5,000.00	
Transferred from Bacteriological Laboratory Fund .....	<u>20,000.00</u>	
Total .....	\$25,000.00	
Expended during Year 1905-6 .....	<u>179.74</u>	
Balance July 31, 1906.....		\$24,820.26

**Main Building Equipment—University.**

Transferred from Main Building Fund .....	\$38,456.00	
Expended during Year 1905-6 .....	<u>          </u>	
Balance July 31, 1906 .....		\$38,456.00

**Main Building Equipment, School of Agriculture.**

Transferred from Agricultural College Bldgs fund..	\$42,800.00	
Expended during Year 1905-6 .....	370.65	
	<hr/>	
Balance July 31, 1906.....		\$42,429.35

**University Fuel Fund.**

Transferred from Current Expense Fund Year 1905-6	\$25,000.00	
Expended during Year 1905-6 .....	20,205.34	
	<hr/>	
Balance July 31, 1906.....		\$4,794.66

**Engineering and Electric Light Plant.**

Balance August 1, 1905 .....	\$14,858.05	
Expended during Year 1905-6 .....	6,300.36	
	<hr/>	
Balance July 31, 1906 .....		\$8,557.69

**THE GEOLOGICAL AND NATURAL HISTORY SURVEY.  
1904-5.**

Balance on hand August 1, 1904 .....	\$45,765.05	
Received from sales of Salt Springs Lands .....	1,944.36	
Receipts from sale of "Geological Survey" reports..	12.55	
	<hr/>	
Total .....	\$47,721.96	
Expenditures during year 1904-5 .....	8,664.22	
	<hr/>	
Balance July 31, 1905 .....		\$39,057.74

**1905-6.**

Balance on hand August 1, 1905 .....	\$39,057.74	
Receipts from sale of Salt Springs Lands .....	2,676.96	
Receipts from sale of "Geological Survey" Reports	49.59	
Refund of Prof. MacMillan's salary for August .....	50.00	
Interest on Bank Deposits—Survey Fund .....	16.34	
	<hr/>	
Total .....	\$41,850.63	
Expenditures during year 1905-6.....	\$2,164.50	
Transfer to Agricultural College Build- ings Fund .....	346.70	8,511.20
	<hr/>	
Balance July 31, 1906.....		\$33,339.43

**Support of Crippled and Deformed Children.  
1904-5.**

Balance on hand August 1, 1904 .....	\$4,493.56	
Appropriation for Year 1904-5 .....	12,500.00	
	<hr/>	
Total .....	\$16,993.56	
Expenditures during Year 1904-5 .....	12,753.41	
	<hr/>	
Balance July 31, 1905 .....		\$4,240.15

**1905-6**

Balance on hand August 1, 1905 .....	\$4,240.15	
New Appropriation for Year 1905-6 .....	14,000.00	
	<hr/>	
Total .....	\$18,240.15	
Expenditures for Year 1905-6.....	13,903.53	
	<hr/>	
Balance July 31, 1906 .....		\$4,336.62

## FOURTEENTH BIENNIAL REPORT

GILFILLAN TRUST FUND.  
1904-5

Balance on hand August 1, 1904 .....	\$2,185.62	
Annual interest on \$50,000 in Soo R. R. 4 per cent bds	2,000.00	
Collections made during 1904-5 on acct of Loans....	360.00	
Collections made during 1904-5 on Acct. of Interest on Loans .....	82.75	
<b>Total .....</b>	<b>\$4,628.37</b>	

**Disbursements.**

Loans made to 32 students during 1904-5	3,370.00	
Express on bonds to N. Y. for Registration	37.50	
Rent of Safe Deposit Vault .....	7.00	
Typewriting report .....	2.00	
Printing .....	1.75	3,418.25

Balance July 31, 1905 ..... \$1,210.12

**1905-6**

Balance on hand August 1, 1905 .....	\$1,210.12	
Annual Interest on \$50,000.00 in Soo R. R. 4 per cent Bonds .....	2,000.00	
Collections made during 1905-6 on acct of Loans....	417.50	
Collections made during 1905-6 on acct of Interest on Loans .....	290.52	
<b>Total .....</b>	<b>\$3,918.14</b>	

**Disbursements.**

Loans made to 20 Students during 1905-6.	\$2,486.00	
Exchange paid on Three country checks	.35	2,486.35

Balance July 31, 1906 ..... \$1,431.79

ELLIOTT SCHOLARSHIP LOAN FUND.  
1904-5.

Balance on hand January 1, 1904 .....	\$47.00	
Annual Interest on \$5,000.00 at 5 per cent .....	250.00	
Received from F. C. Devereaux, loan repaid.....	200.00	
<b>Total .....</b>	<b>\$497.00</b>	

**Disbursements.**

Loans made to 4 Students during 1904-5 .....	350.00	
<b>Balance July 31, 1905 .....</b>	<b>.....</b>	<b>\$147.00</b>

**1905-6**

Balance on hand August 1, 1905 .....	\$147.00	
Original Fund .....	\$5,000.00	
Accumulated Interest .....	136.00	
Face of Certificate .....	\$5,136.00	
Interest to May 6th .....	193.75	
<b>.....</b>	<b>\$5,329.75</b>	

With these funds the Regent purchased 5 Northern Pacific Bonds drawing 4 per cent at \$1.04 .....	\$5,200.00	
Paid for Brokerage .....	6.25	
Insurance and Postage .....	1.49	
<b>.....</b>	<b>\$5,207.74</b>	



UNIVERSITY BOARD OF REGENTS

Balance unexpended .....	122.01	
Balance on hand August 1, 1906 .....		\$269.01

NOTE: The Elliott Fund, which up to the death of Mrs. Elliott had remained in her hands, was after her death, transferred to the Board of Regents. On February 3, 1905, the Regents deposited the fund \$5,000.00, together with the accumulated interest, \$136.00 with the Northwestern National Bank, receiving therefor a Certificate of Deposit drawing 3 per cent, and remained there until Northern Pacific Bonds were purchased. No loans were made during the year 1905-6.

**LUDDEN TRUST FUND.**  
1904-5

Balance on hand August 1, 1904 .....	\$346.25
Interest on \$10,000 in Northern Pac. 4 per cent bonds .....	400.00
Total .....	\$746.25

**Disbursements.**

Gifts made to 3 Students during 1904-5 .....	90.00	
Balance July 31, 1905.....		\$656.25

**1905-6.**

Balance on hand August 1, 1905 .....	\$656.25
Interest on \$10,000 Nor. Pacific 4 per cent bonds....	400.00
Total .....	\$1,056.25

**Disbursements.**

Gifts made to 5 Students during 1905-6 .....	270.00	
Balance July 31, 1906 .....		\$786.25

JOSEPH D. BREN, Cashier.

# ADMINISTRATIVE OFFICERS.

## THE BOARD OF REGENTS

The HON. JAMES T. WYMAN, Minneapolis, The President of the Board	1907
The HON. STEPHEN MAHONEY, Minneapolis,	1907
The HON. O. C. STRICKLER, New Ulm,	1907
The HON. S. G. COMSTOCK, Moorhead,	1909
The HON. THOMAS WILSON, St. Paul,	1909
The HON. B. F. NELSON, Minneapolis,	1909
The HON. A. E. RICE, Wilmar,	1909
The HON. EUGENE W. RANDALL, Hamline,	1910
The HON. DANIEL R. NOYES, St. Paul,	1910
CYRUS NORTHROP, LL. D., Minneapolis, The President of the University.	Ex-Officio
The HON. JOHN A. JOHNSON, St. Peter, The Governor of the State.	Ex-Officio
The HON. JOHN W. OLSEN, Albert Lea, The State Superintendent of Public Instruction.	Ex-Officio
C. D. DECKER, Minneapolis, Secretary of the Board.	

## EXECUTIVE OFFICERS.

### THE UNIVERSITY.

CYRUS NORTHROP, LL. D., President.  
 ERNEST B. PIERCE, B. A., Registrar.  
 C. D. DECKER., Purchasing Agent and Secretary of the Board of Regents.  
 JOSEPH D. EREN, Cashier.

### THE COLLEGES

JOHN F. DOWNEY, M. A., C. E., Dean of the College of Science, Literature and the Arts.  
 FREDERICK S. JONES, M. S., Dean of the College of Engineering and the Mechanic Arts.  
 WILLIAM R. APPLEBY, M. A., Dean of the School of Mines.  
 GEORGE B. FRANKFORTER, Ph. D., Dean of the School of Chemistry.  
 GEORGE F. JAMES, Ph. D., Dean of the College of Education.  
 HENRY T. EDDY, C. E., Ph. D., LL. D., Dean of the Graduate School.  
 WILLIAM M. LIGGETT, Dean and Director of the Department of Agriculture.  
 WILLIAM S. PATTEE, LL. D., Dean of the College of Law.  
 Parks Ritchie, M. D., Dean of the College of Medicine and Surgery and Professor of Obstetrics.  
 EUGENE L. MANN, B. A., M. D., Dean of the College of Homeopathic Medicine and Surgery.

ALFRED CWRE, D. M. D., Dean of the College of Dentistry.  
 FREDERICK J. WULLING, Phm. D., LL. M., Dean of the College of  
 Pharmacy.

## LIBRARIES AND MUSEUMS

WILLIAM W. FOLWELL, LL. D., Librarian.  
 LETTIE M. CRAFTS, B. L., Assistant Librarian.  
 INA FIRKINS, B. L., Library Assistant.  
 MARY S. McIntyre, B. S., Librarian of School of Agriculture.  
 THOMAS G. LEE, Librarian of Department of Medicine.  
 HUGH E. WILLIS, LL. M., Librarian of the College of Law.  
 CHRISTOPHER W. HALL, M. A., Curator of Geological Museum.  
 HENRY F. NACHTRIEB, B. A., Curator of the Zoological Museum.

## BUILDINGS AND GROUNDS

ALLAN W. GUILD, Superintendent of Buildings.  
 EDWIN A. CUZNER, Superintendent of Grounds.

## THE FACULTY

CYRUS NORTHROP, LL. D., President. 519 Tenth Ave. S. E.

## COLLEGE OF SCIENCE, LITERATURE AND THE ARTS

FRANK MALOY ANDERSON, M. A., 1629 University Ave. S. E., Professor  
 of History.  
 GEORGE N. BAUER, Ph. D., 323 Sixth Ave. S. E., Assistant Professor of  
 Mathematics.  
 CHARLES W. BENTON, M. A., Litt. D., 516 Ninth Ave. S. E., Professor  
 of French.  
 JABEZ BROOKS, D. D., 1708 Laurel Ave., Senior Professor of Greek.  
 RICHARD BURTON, Ph. D., The Plaza, Special Lecturer on English Lit-  
 erature.  
 JOHN S. CARLSON, Ph. D., 520 Delaware St. S. E., Professor of Scan-  
 dinavian Languages and Literature.  
 JOHN S. CLARK, B. A., 720 Tenth Ave. S. E., Professor of Latin.  
 ADA L. COMSTOCK, M. A., 1005 University Ave. S. E., Assistant Professor  
 of Rhetoric.  
 LOUIS J. COOKE, M. D., 906 Sixth St. S. E., Director of the Gymnasium.  
 SAMUEL N. DEINARD, Ph. D., 1807 Elliot Ave., Assistant Professor of  
 Semetic Languages and Literature.  
 JOHN F. DOWNEY, M. A., C. E., 825 Fifth St. S. E., Dean and Professor  
 of Mathematics.  
 WILLIAM W. FOLWELL, LL. D., 1020 Fifth St. S. E., Professor of Po-  
 litical Science.  
 GEORGE B. FRANKFORTER, M. M. Ph. D., 525 St. Anthony Parkway  
 S. E., Dean and Professor of Chemistry.  
 EDWARD M. FREEMAN, M. S., Washington, D. C., Assistant Professor  
 of Botany.  
 JOHN E. GRANRUD, Ph. D., 605 Delaware St. S. E., Assistant Professor  
 of Latin.  
 CHRISTOPHER W. HALL, M. A., 803 University Ave. S. E., Professor of  
 Geology and Mineralogy.  
 EVERHART P. HARDING, Ph. D., 1316 Sixth St. S. E., Assistant Profess-  
 or of Chemistry.

- JOHN C. HUTCHINSON, B. A., 3806 Blaisdell Ave., Professor of Greek.  
 GEORGE FRANCIS JAMES, Ph. D., 308 Eighteenth Ave. S. E., Professor of Education.  
 FREDERICK S. JONES, M. A., 712 Tenth Ave. S. E., Professor of Physics.  
 FREDERICK KLAEBER, Ph. D., 616 Ninth Ave. S. E., Professor of Comparative and English Philology.  
 FRANCIS P. LEAVENWORTH, M. A., 1628 Fourth St. S. E., Professor of Astronomy.  
 HAROLD L. LYON, Ph. D., 616 Twelfth Ave. S. E., Assistant Professor of Botany.  
 CONWAY MacMILLAN, M. A., Philadelphia, Pa., Professor of Botany.  
 FRANK L. McVEY, Ph. D., 822 Seventh St. S. E., Professor of Political Economy.  
 EDWARD EUGENE McDERMOTT, M. S., 1307 Sixth St. S. E., Assistant Professor of Rhetoric and Elocution.  
 HOPE McDONALD, M. S., 301 Oak Grove St., Assistant Professor of History.  
 JOHN G. MOORE, B. A., 2810 University Ave., Professor of the German Language and Literature.  
 GEORGE H. MORGAN, LL. B., Major U. S. A., Fort Leavenworth, Kan., Professor of Military Science.  
 CHARLES F. McCLUMPHA, M. A., Ph. D., Amsterdam, N. Y., Professor of the English Language and Literature.  
 HENRY F. NACHTRIEB, B. S., 905 Sixth St. S. E., Professor of Animal Biology.  
 EDWARD E. NICHOLSON, M. A., 914 Seventh St. S. E., Assistant Professor of Chemistry.  
 EMIL OPERHOFFER, Hampshire Arms, Professor of Music.  
 OSCAR W. OESTLUND, M. A., 1910 Fourth St. S. E., Assistant Professor of Animal Biology.  
 JOSEPH BROWN PIKE, M. A., 525 Tenth Ave. S. E., Professor of Latin.  
 FRANCES S. POTTER, M. A., 2412 Harriet Ave., Assistant Professor of English.  
 C. O. ROSENDAHL, Ph. D., 626 Sixteenth Ave. S. E., Assistant Professor of Botany.  
 MARIA L. SANFORD, 1050 Thirteenth Ave. S. E., Professor of Rhetoric and Elocution.  
 FRED W. SARDESON, Ph. D., 414 Harvard St. S. E., Assistant Professor of Paleontology.  
 CHARLES ALBERT SAVAGE, Ph. D., 1100 Fifth St. S. E., Assistant Professor of Greek.  
 WILLIAM A. SCHAPER, Ph. D., 625 Fulton St. S. E., Professor of Political Science.  
 CARL SCHLENKER, B. A., 509 St. Anthony Parkway S. E., Professor of German.  
 CARLYLE SCOTT, 36 Thirteenth St. S. E., Assistant Professor of Music.  
 CHARLES F. SIDENER, B. S., 1320 Fifth St. S. E., Professor of Chemistry.  
 CHARLES P. SIGERFOOS, Ph. D., 328 Tenth Ave. S. E., Professor of Zoology.  
 CAPT. EDWARD SIGERFOOS, Ph. D., U. S. A., 328 Tenth Ave. S. E., Professor of Military Science.  
 SAMUEL G. SMITH, Ph. D., LL. D., 125 W. College Ave., St. Paul, Professor of Sociology.  
 JOSEPHINE E. TILDEN, M. S., 800 Fourth St. S. E., Assistant Professor of Botany.  
 WILLIAM M. WEST, M. A., 1314 Sixth St. S. E., Professor of History.  
 ALBERT B. WHITE, Ph. D., 325 Sixth Ave. S. E., Assistant Professor of History.

- MATILDA J. WILKIN, M. L., 618 Fifteenth Ave. S. E., Assistant Professor of German.
- NORMAN WILDE, Ph. D., 901 Sixth St. S. E., Professor of Philosophy and Psychology.
- HENRY L. WILLIAMS, M. D., 1313 Fifth St. S. E., Director of Athletics.
- JOHN ZELENY, B. S., B. A., 810 Sixth St. S. E., Associate Professor of Physics.

## INSTRUCTORS

- LEROY ARNOLD, M. A., 2628 Park Ave., Instructor in English.
- EMMA BERTIN, 1223 Fourth St. S. E., Instructor in French.
- JOHN C. BROWN, M. A., 934 Fifteenth Ave. S. E., Instructor in Animal Biology.
- OSCAR C. BURKHARD, M. A., 1126 Fifth St. S. E., Instructor in German.
- ANNA M. BUTNER, 1915 Portland Ave., Instructor in Physical Culture.
- THOMAS CAHILL, 1050 Thirteenth Ave. S. E., Instructor in Rhetoric.
- RAYMOND P. CHASE, B. A., 918 Seventh St. S. E., Instructor in Rhetoric.
- FREDERICK D. CALHOUN, 1762 Hennepin Ave., Instructor in Rhetoric.
- HENRIETTA CLOPATH, 701 Delaware St. S. E., Instructor in Drawing.
- LILLIAN COHEN, M. A., 415 East Fourteenth St., Instructor in Chemistry.
- HANS H. DALAKER, B. A., 405 Oak St. S. E., Instructor in Mathematics.
- HAL DOWNEY, M. A., 1206 Seventh St. S. E., Instructor in Animal Biology.
- FRANCIS C. FRARY, M. S., 3108 Garfield Ave., Instructor in Chemistry.
- HENRY A. ERIKSON, B. E. E., 220 Church St. S. E., Instructor in Physics.
- JOSEPH E. L. FAYANS, Instructor in French.
- OSCAR W. FIRKINS, M. A., 1528 Fourth St. S. E., Instructor in English.
- JULIUS S. FRELIN, B. A., 124 State St. S. E., Instructor in French.
- CHARLES M. HOLT, B. A., Hotel Waverly, Instructor in Education
- PERCY C. HUGHES, Ph. D., 321 Church St. S. E., Instructor in History.
- JOHN G. HOLM, B. A., Florence Court, Instructor in Rhetoric.
- GEORGE H. JOHNSTON, M. A., 1620 Third Ave. S., Instructor in Psychology.
- HANS JUERGENSEN, 1612 Eleventh Ave. S. E., Instructor in German.
- ALOIS F. KOVARIK, B. A., 1523 Seventh St. S. E., Instructor in Physics.
- JENNINGS C. LITZENBERG, B. S., M. D., 2955 Chicago Ave., Instructor in Gymnastics.
- OWEN P. McELMEELE, LL. B., 616 Twelfth Ave. S. E., Instructor in Rhetoric.
- LINDA H. MALEY, B. L., 613 Washington Ave. S. E., Instructor in Rhetoric.
- JAMES E. MANCHESTER, Ph. L., 405 Oak St. S. E., Instructor in Mathematics.
- CORA E. MARLOWE, B. S., 909 Fourth St. S. E., Instructor in History.
- CARL M. MELOM, M. A., Coronado Apartments, 1314 Fourth Ave. S., Instructor in History.
- LILLIAN NIXON, B. A., 618 Fifteenth Ave. S. E., Instructor in Rhetoric.
- ARTHUR L. PARSONS, B. A., 1011 Seventeenth Ave. S. E., Instructor in Mineralogy.
- MARY G. PECK, M. A., 2412 Harriet Ave., Instructor in English.
- BERT ROSE, 710 Seventh St. S. E., Instructor of Cadet Band.
- ROYAL R. SHUMWAY, B. A., 602 Essex St. S. E., Instructor in Mathematics.
- DAVID F. SWENSON, B. A., 3101 Sixteenth Ave. S. E., Instructor in Philosophy.
- EDWARD D. SADERBERGER, Ph. D., Dawson, Minn., Lecturer in Economics.
- JAMES E. TUTHILL, M. A., Fifth St. between 12th and 13th Aves. S. E., Instructor in History.

CHARLES A. WILLIAMS, M. A., 312 Union St. S. E., Instructor in German.  
ANTHONY ZELENY, M. S., 321 Church St. S. E., Instructor in Physics.

#### SCHOLARS AND ASSISTANTS.

EDWARD ANDERSON, Assistant in Chemistry.  
WALTER BADGER, Assistant in Chemistry.  
FRANK M. BALL, M. A., Assistant in Geology  
WILLIAM E. BARNABY, Assistant in Chemistry.  
H. M. COFFIN, Clerk in Physical Culture.  
CHARLES R. CRESSY, Assistant in Chemistry.  
IRWIN A. CHURCHILL, A. B., Assistant in Political Economy.  
CHRIS DANE, Mechanic.  
AGNES L. DEAN, Assistant in Chemistry.  
JOHN P. DEVANEY, Assistant in Rhetoric.  
JAMES DORAN, Assistant in Chemistry.  
STURLA EINARSON, Scholar in Astronomy.  
HELEN GRIFFITH, Assistant in Rhetoric.  
MARTHA HARRIS, Assistant in Rhetoric.  
C. H. HILL, B. A., Assistant in Rhetoric.  
DAISY MCNE, Assistant in Botany.  
EDWARD C. JOHNSON, B. A., Assistant in Botany.  
A. W. KENNEDY, Assistant in Chemistry.  
W. H. LEPPOLD, Scholar in Botany.  
GUSTAVUS LEVINGER, Assistant in Rhetoric.  
HARRY LOVE, M. A., Assistant in Political Science.  
WM. A. McMANIGAL, B. A., Assistant in Sociology.  
E. McPENNOCK, Scholar in Geology.  
JESSIE A. MATSON, Assistant in Physical Culture.  
CLAUDE G. MINER, B. A., Assistant in Geology.  
H. M. NEWTON, Assistant in Chemistry.  
TILDA OTTERSON, Assistant in Chemistry.  
EUNICE D. PEABODY, B. A., Assistant in Philosophy.  
A. HAROLD PORTER, Assistant in Chemistry.  
IRVING D. ROBINSON, Assistant in Chemistry.  
JESSIE SCHULTEN, Assistant in Rhetoric.  
ELEANOR SHELDON, B. A., Reader in English.  
S. N. SODERBERG, Scholar in Political Economy.  
EDWARD F. SWENSON, Assistant in Political Economy.  
EDITH VON KUSTER, Assistant in Chemistry.  
HANS WALCHLI, Assistant in Education.  
JAMES S. WATTS, Assistant in English.  
RODNEY WEST, B. A., Assistant in Chemistry.  
A. D. WILHOIT, M. S., Assistant in Chemistry.  
RUTH WEST, Assistant in Chemistry.

#### COLLEGE OF ENGINEERING AND THE MECHANIC ARTS

FREDERICK S. JONES, M. A., Dean, 712 Tenth Ave. S. E.  
FREDERICK H. BASS, B. S., 116 Beacon St. S. E., Assistant Professor  
of Civil Engineering.  
WILLIAM BROOKE, B. C. E., 709 Delaware St. S. E., Assistant Professor  
of Engineering Mathematics.  
FRANK H. CONSTANT, C. E., 1801 University Ave. S. E., Professor of  
Structural Engineering.  
HENRY T. EDDY, C. F., Ph. D., LL. D., 916 Sixth St. S. E., Professor  
of Engineering and Mechanics  
JOHN J. FLATHER, Ph. B., M. M. E., 1103 Fourth St. S. E., Professor  
of Mechanical Engineering.

ARTHUR E. HAYNES, M. S. M., Ph., Sc. D., 703 River Parkway S. E., Professor of Engineering Mathematics.  
 WILLIAM R. HOAG, C. E., 1320 Seventh St. S. E., Professor of Civil Engineering.  
 WILLIAM H. KAVANAUGH, M. E., 503 Fifteenth Ave. S. E., Assistant Professor of Mechanical Engineering.  
 WILLIAM H. KIRCHNER, B. S., 328 Oak St. S. E., Assistant Professor of Drawing.  
 EDWARD P. SANFORD, M. A., St. Paul, Assistant Professor of English.  
 GEORGE D. SHEPARDSON, M. A., M. E., 717 St. Anthony Parkway S. E., Professor of Electrical Engineering.  
 FRANK SPRINGER, E. E., 1206 Fifth St. S. E., Assistant Professor of Electrical Engineering.

## INSTRUCTORS

EDWARD JOHNSON, 1811 Quincy St., Instructor in Foundry Practice.  
 R. S. KING, M. E., 112 State St. S. E., Instructor in Mechanical Engineering.  
 WILLIAM H. MERRIAM, 608 Seventh St. S. E., Instructor in Machine Work.  
 EDD. C. OLIVER, M. E., 515 Oak St. S. E., Instructor in Machine Design.  
 JOHN H. QUENSE, C. E., M. E., Instructor in Drawing.  
 CHARLES F. SHOOP, B. S., 320 Thirteenth Ave. S. E. Instructor in Mechanical Engineering.  
 JAMES M. TATE, 124 State St. S. E., Instructor in Carpentry and Pattern Work.  
 HENRY ULRICH, Instructor in Carpentry.

## ASSISTANTS AND OTHERS

HARRY W. DIXON, Chief Engineer.  
 H. K. DOUGAN, Assistant in Civil Engineering.  
 JULIUS A. DOERFLER, Student Assistant in Drawing.  
 PETER JOHNSON, Machinist.  
 EARL W. KELLY, Student Assistant in Drawing.  
 FRANK R. McMILLAN, Student Assistant in Drawing.  
 GEORGE P. MUNGER, Blacksmith.  
 JOHN NEKOLA, Student Assistant in Drawing.  
 ARTHUR C. RIGSRED, Student Assistant in Engineering Mathematics.  
 LAWRENCE A. STENGER, Student Assistant in Electrical Engineering.  
 ROBERT WHERLAND, Assistant Engineer.

## SCHOOL OF MINES

WILLIAM R. APPLEBY, M. A., 911 Fifth St. S. E., Dean and Professor of Metallurgy.  
 CHARLES E. VAN BARNEVELD, B. A., Sc. E. M., 1717 Vine Place, Professor of Mining Engineering.  
 PETER CHRISTIANSON, B. S., E. M., 208 Beacon St. S. E., Instructor in Assaying.  
 BENJAMIN F. GROAT, B. S., 108 Beacon St. S. E., Professor of Mechanics.  
 EDWARD P. McCARTY, E. M., 1401 Sixth St. S. E., Assistant Professor of Mining.  
 LEVI B. PEASE, M. S., St. Anthony Park, Instructor in Assaying.

## ASSISTANTS

GUS RYDLUND, Millwright.  
 NELLIE FINNEGAN, Office Assistant.

## COLLEGE OF LAW

WILLIAM S. PATTEE, LL. D., 1319 Fifth St. S. E., Dean and Professor of Law, Equity and International Law.  
 A. C. HICKMAN, LL. D., 1229 Seventh St. S. E., Professor of Law, Pleading and Practice.  
 JAMES PAIGE, A. M., LL. M., 1414 Yale Place, Professor of Law, Torts and Criminal Law.  
 HENRY J. FLETCHER, LL. M., 75 Dell Place, Professor of Law, Contracts and Real Property.  
 EDWIN A. JAGGARD, A. M., LL. B., St. Paul, Lecturer, Taxation.  
 HOWARD S. ABBOTT, B. L., 900 Sixth St. S. E., Lecturer, Corporations.  
 ROBERT S. KOLLINER, LL. B., 3340 Second Ave. S., Lecturer, Personal Property.  
 HUGH WILLIS, A. M., LL. M., 1319 Fifth St. S. E., Assistant Professor Personal Property, Bailments and Carriers.  
 GEORGE B. YOUNG, LL. B., Minneapolis, Lecturer, Conflict of Laws.  
 JAMES O. PIERCE, Minneapolis, Lecturer, Constitution Jurisprudence and History.  
 C. D. O'Brien, St. Paul, Lecturer, Criminal Procedure.  
 JOHN DAY SMITH, LL. M., Minneapolis, Lecturer, American Constitutional Law.  
 HERBERT R. SPENCER, Duluth, Minn., Lecturer, Admiralty Law.  
 JOHN C. SWEET, LL. M., Minneapolis, Lecturer, Mortgage Foreclosure.  
 JARED HOW, LL. B., St. Paul, Lecturer, Landlord and Tenant.  
 FRED E. HOBBS, B. S., LL. B., Minneapolis, Instructor in Justice and Moot Court Practice.  
 C. W. BUNN, Special Lecturer St. Paul.  
 FRANK B. KELLOGG, Special Lecturer, St. Paul.  
 M. B. KOON, Special Lecturer, Minneapolis.  
 WILLIAM L. KELLY, Special Lecturer, St. Paul.  
 HOMER W. STEVENS, A. B., LL. B., 408 WASHINGTON Ave. S. E., Librarian.

## COLLEGE OF MEDICINE AND SURGERY

PARKS, RITCHIE, M. D., Lowry Arcade, St. Paul, Dean and Professor of Obstetrics.  
 JOHN W. BELL, M. D., Andrus Building, Minneapolis, Emeritus Professor of Medicine and Physical Diagnosis.  
 CHARLES A. WHEATON, M. D., Lowry Arcade, St. Paul, Emeritus Professor of Surgery.  
 AMOS W. ABBOTT, M. D., 21 Tenth St., So. Minneapolis, Clinical Professor of Diseases of Women.  
 EVERTON J. ABBOTT, A. B., M. D., Endicott Arcade, St. Paul, Clinical Professor of Medicine and Chief of Medical Clinics.  
 RICHARD O. BEARD, M. D., Andrus Building, Minneapolis, Professor of Physiology.  
 HENRY M. BRACKEN, M. D., L. R. C. S., Edinburgh, Dayton Building, Professor of Materia Medica and Therapeutics.  
 HUBERT C. CAREL, B. S., 436 Harvard St. S. E., Professor of Chemistry.  
 A. B. CATES, A. M., M. D., Dayton Building, Minneapolis, Professor of Obstetrics.



- JAMES T. CHRISTIANSON, M. D., Endicott Arcade, St. Paul, Clinical Professor of Diseases of Children.
- FREDERICK A. DUNSMOOR, M. D., Andrus Building, Minneapolis, Professor of Operative and Clinical Surgery.
- CHARLES A. ERDMANN, M. D., Pillsbury Building, Minneapolis, Professor of Anatomy.
- BURNSIDE FOSTER, M. A., M. D., Lowry Arcade, St. Paul, Clinical Professor of Diseases of the Skin and Lecturer upon the History of Medicine.
- ARTHUR GILLETTE, M. D., Seven Corners, St. Paul, Professor of Orthopedic Surgery.
- CHARLES L. GREENE, M. D., Lowry Arcade, St. Paul, Professor of the Theory and Practice of Medicine.
- GEORGE D. HEAD, B. S., M. D., Andrus Building, Minneapolis, Professor of Clinical Microscopy.
- CHARLES H. HUNTER, A. M., M. D., Syndicate Block, Minneapolis, Clinical Professor of Medicine and Chief of Medical Clinic.
- WILLIAM A. JONES, M. D., Dayton Building, Minneapolis, Clinical Professor of Nervous and Mental Diseases.
- THOMAS G. LEE, B. S., M. D., 707 St. Anthony Parkway, S. E., Professor of Histology and Embryology Secretary of the Faculty and Librarian.
- J. WARREN LITTLE, M. D., Syndicate Arcade, Minneapolis, Clinical Professor of Surgery.
- ARCHIBALD MACLAREN, A. B., M. D., Lowry Arcade, St. Paul, Clinical Professor of Surgery.
- JAMES E. MOORE, M. D., Dayton Building, Minneapolis, Professor of Surgery.
- WILLIAM R. MURRAY, A. B., M. D., Minneapolis, Clinical Professor of Rhinology and Larynology.
- LOUIS A. NIPPERT, M. D., Syndicate Arcade, Minneapolis, Clinical Professor of Medicine.
- CHARLES NOOTNAGEL, M. D., Andrus Building, Minneapolis, Clinical Professor of Medicine and Physical Diagnosis.
- HENRY J. O'BRIEN, M. D., St. Paul, Clinical Professor of Surgery.
- JUSTUS OHAGE, M. D., St. Paul, Clinical Professor of Surgery.
- C. EUGENE RIGGS, A. M., M. D., Endicott Arcade, St. Paul, Professor of Nervous and Mental Diseases.
- THOMAS L. ROBERTS, M. D., Minneapolis, Professor of Diseases of Children.
- JOHN T. ROGERS, M. D., Lowry Arcade, St. Paul, Clinical Professor of Surgery.
- JOHN L. ROTHROCK, A. M., M. D., Lowry Arcade, St. Paul, Clinical Professor of Diseases of Women.
- JACOB E. SCHADLE, M. D., Lowry Arcade, St. Paul, Professor of Rhinology and Larynology.
- HENRY L. STAPLES, A. M., M. D., Syndicate Block, Minneapolis, Clinical Professor of Medicine.
- J. CLARK STEWART, B. S., M. D., Dayton Building, Minneapolis, Professor of the Principles of Surgery.
- ALEXANDER J. STONE, M. D., LL. D., Lowry Arcade, St. Paul, Professor of the Diseases of Women.
- ARTHUR SWEENEY, M. D., St. Paul, Professor of Medical Jurisprudence.
- FRANK C. TODD, M. D., Dayton Building, Minneapolis, Professor of Ophthalmology and Otology.
- MAX P. VANDER HORCK, M. D., Dayton Building, Minneapolis, Professor of the Diseases of the Skin and Genito Urinary Organs.
- FRANK F. WESBROOK, M. A., M. D., C. M., 906 Fifth St. S. E., Professor of Pathology and Bacteriology.
- H. W. Hill, M. D., 820 Ninth Ave. S. E., Assistant Professor of Bacteriology.

- WINFIELD S. NICKERSON, Sc. D., M. D., 217 Beacon St. S. E., Assistant Professor of Histology.
- S. M. WHITE, B. S., M. D., 365 Sixth Ave. S. E., Assistant Professor of Pathology and Bacteriology.
- LOUIS P. WILSON, M. D., Rochester, Minn., Assistant Professor of Clinical Pathology.
- E. V. APPLEBY, M. D., St. Paul, Instructor in Ophthalmology.
- A. E. BENJAMIN, M. D., Pillsbury Building, Minneapolis, Clinical Instructor in Diseases of Women.
- JOHN B. FRIMHALL, M. D., Moore Building, St. Paul, Clinical Instructor in Orthopedic Surgery.
- R. A. CAMPBELL, M. D., Minneapolis, Clinical Instructor in Rhinology and Laryngology.
- A. E. CARR, D. D. S., Minneapolis, Instructor in Medical Chemistry.
- W. H. CONDIT, B. S., M. D., Andrus Building, Minneapolis, Instructor in Materia Medica.
- A. R. COLVIN, M. D., Minneapolis, Clinical Instructor in Surgery.
- GEORGE M. COON, M. D., St. Paul, Clinical Instructor in Genito Urinary Diseases.
- J. GROSVENOR CROSS, B. S., M. D., Pillsbury Building, Clinical Instructor in Clinical Medicine.
- H. W. DAVIS, M. D., St. Paul, Clinical Instructor in Obstetrics.
- WARREN A. DENNIS, B. S., M. D., St. Paul, Clinical Instructor in Surgery.
- IRA HARRIS DERBY, B. S., 1408 Seventh St. S. E., Instructor in Chemistry.
- A. W. DUNNING, M. D., Minneapolis, Clinical Instructor in Nervous and Mental Diseases.
- JUDD GOODRICH, M. D., St. Paul, Clinical Instructor in Surgery.
- GEORGE D. HAGGARD, M. D., Pillsbury Building, Instructor in Physiology.
- ARTHUR S. HAMILTON, M. D., 600 Washington Ave. S. E., Instructor in Pathology of the Nervous Diseases.
- P. A. HOFF, M. D., St. Paul, Clinical Instructor in Medicine.
- H. W. JONES, M. D., Clinical Instructor in Medicine.
- ARTHUR A. LAW, M. D., Pillsbury Building, Minneapolis, Instructor in Operative Surgery.
- FREDERICK LEAVITT, M. D., Pillsbury Building, Minneapolis, Clinical Instructor in Obstetrics.
- ALFRED LIND, B. S., M. D., Minneapolis, Lecturer in Mechano-Therapy.
- J. C. LITZENBERG, B. S., M. D., 2955 Chicago Ave., Minneapolis, Assistant Clinical Instructor in Obstetrics.
- ARTHUR T. MANN, B. S., M. D., Pillsbury Building, Minneapolis, Clinical Instructor in Surgery.
- R. H. MULLIN, B. A., M. D., 327 University Ave. S. E., Demonstrator in Pathology and Bacteriology.
- MARGARET L. NICKERSON, M. A., M. D., 217 Beacon St. S. E., Instructor in History and Embryology.
- WALTER RAMSEY, M. D., Lowry Arcade, St. Paul, Clinical Instructor in Diseases of Children.
- H. K. READ, M. D., Minneapolis, Demonstrator of Anatomy.
- SOVEN P. REES, B. S., M. D., Andrus Building, Minneapolis, Instructor in Physical Diagnosis.
- H. P. RITCHIE, Ph. B., M. D., St. Paul, Clinical Instructor in Diseases of Women.
- GEORGE E. SENKLER, M. D., St. Paul, Clinical Instructor in Medicine.
- M. RUSSELL WILCOX, M. D., Pillsbury Building, Minneapolis, Demonstrator of Physiology.
- VAN H. WILCOX, M. D., Pillsbury Building, Minneapolis, Instructor in Operative Surgery.

- H. L. WILLIAMS, M. D., 1315 Fifth St. S. E., Instructor in Diseases of Women.  
 F. R. WRIGHT, M. D., Pillsbury Building, Minneapolis, Clinical Instructor in Dermatology.  
 HENRY L. ULRICH, M. D., 220 East 27th St. S., Instructor in Clinical Microscopy.

## SCHOLARS AND ASSISTANTS

- F. L. Adair, M. D., Clinical Assistant in Medicine.  
 W. H. ARAND, M. D., Clinical Assistant in Medicine.  
 JOHN H. ARMSTRONG, M. D., Clinical Assistant in Genito Urinary Diseases.  
 CHARLES R. BALL, M. D., Clinical Assistant in Nervous and Mental Diseases.  
 S. G. COBB, M. D., Assistant in Clinical Medicine and Surgery.  
 L. O. DART, M. D., Clinical Assistant in Diseases of Children.  
 R. E. FARR, M. D., Clinical Assistant in Surgery.  
 EMIL S. GEIST, M. D., Clinical Assistant in Orthopedia.  
 JAMES T. GILFILLAN, M. D., Clinical Assistant in Medicine.  
 E. K. GREEN, A. B., M. D., Clinical Assistant in Medicine  
 EARL R. HARE, M. D., Prosector in Anatomy.  
 ALEXANDER R. HALL, M. D., Clinical Assistant in Medicine.  
 JOHN E. HYNES, M. D., Clinical Assistant in Medicine.  
 A. E. LOEBERG, M. D., Clinical Assistant in Nervous and Mental Diseases.  
 J. S. MAGINE, M. D., Clinical Assistant in Diseases of the Ear and Eye.  
 MARION A. MEAD, M. D., Assistant in Rhinology and Laryngology.  
 JENNETTE McLAREN, M. D., Clinical Assistant in Medicine.  
 THOMAS W. STAMM, M. D., Clinical Assistant in Medicine.  
 W. D. SHELTON, M. D., Clinical Assistant.  
 S. E. SWEITSER, M. D., Clinical Assistant in Dermatology and Genito-Urinary Diseases.  
 C. C. TYRRELLI, Assistant in Anatomical Laboratory.  
 PAUL ASHLEY, Assistant in Anatomical Laboratory.  
 FRED SMITH, Assistant in Anatomical Laboratory.  
 FRED SMITH, Assistant in Anatomical Laboratory.  
 CHELSEA PRATT, Assistant in Anatomical Laboratory

## UNPAID ASSISTANTS IN THE LABORATORY OF PATHOLOGY AND BACTERIOLOGY

PAUL E. BROWN,  
 W. C. CHAMBERS,  
 GEORGE FREEMAN,  
 HENRY GOEHRIS,  
 A. P. MASCHGER,  
 OLIVER M. PORTER,  
 JOHN P. SCHNEIDER,  
 HARRY J. BARTRON.

ED. MORAN.  
 R. A. VARCO, B. A.  
 J. P. WEYRENS.  
 EARL H. CURRENT.  
 THOMAS R. MARTIN, B. A.  
 R. H. LEABBITT.  
 CARL O. ESTREM, B. A.

## COLLEGE OF HOMEOPATHIC MEDICINE AND SURGERY

- EUGENE L. MANN, A. B., M. D., Endicott Arcade, St. Paul, Dean and Professor of Otolgoy.  
 E. E. AUSTIN, M. D., Andrus Building, Minneapolis, Professor of Gynaecology.  
 A. E. EOOOTH, M. D., Andrus Building, Minneapolis, Professor of Orthopedia.  
 WARREN S. BRIGGS, S. B., M. D., Pittsburg Building, St. Paul, Senior Professor of Clinical Surgery.

## FOURTEENTH BIENNIAL REPORT

- GEORGE E. CLARK, Ph. B., M. D., Stillwater, Senior Professor of Theory and Practice of Medicine.
- ALFRED E. COMSTOCK, M. Sc., M. D., New York Building, St. Paul, Professor of Regional Surgery.
- OSCAR H. HALL M. D., Pittsburg Building, St. Paul, Associate Professor of Renal Diseases.
- DAVID W. HORNING, A. B., M. D., Pillsbury Building, Minneapolis, Associate Professor of Diseases of the Heart and Lungs.
- GEORGE B. HAMLIN, M. D., Masonic Temple, Minneapolis, Professor of Paedology.
- ANNA H. HURD, Phm. D., M. D., Pillsbury Building, Minneapolis, Lecturer, Diseases of the Blood and Ductless Glands.
- ETHEL S. HURD, M. D., Pillsbury Building, Minneapolis, Lecturer on Electro-Therapeutics.
- HENRY H. LEAVITT, M. D., Pillsbury Building, Minneapolis, Professor of Ophthalmology.
- WILLIAM E. LEONARD, B. A., M. D., Andrus Building, Minneapolis, Senior Professor of Materia Medica.
- HENRY M. LUFKIN, M. D., Germania Life Building, St. Paul, Professor of Pedology.
- ROBERT D. MATCHIN, M. D., Masonic Temple, Minneapolis, Senior Professor of Principles and Practice of Surgery.
- C. H. NEILL, M. D., Medical Building, Minneapolis, Professor of Skin and Genito-Urinary Diseases.
- B. HARVEY OGDEN, M. A., M. D., Ernst Building, St. Paul, Professor of Obstetrics.
- GEORGE E. RICKER, B. A., M. D., Ernst Building, St. Paul, Senior Professor of Clinical Medicine.
- WILLIAM P. ROBERTS, A. B., M. D., Pillsbury Building, Minneapolis, Professor of General Surgery.
- R. R. ROME M. D., Andrus Building, Minneapolis, Professor of Gynaecology.
- L. D. SHIPMAN, M. D., Medical Building Minneapolis, Clinical Professor of Rhinology and Laryngology.
- HUGH J. TUNSTEAD, M. D., 820 Sixteenth Ave. N., Minneapolis, Associate Professor of Obstetrics.
- ASA S. WILCOX, A. B., M. D., Masonic Temple, Minneapolis, Senior Professor of Practice.

## ASSISTANTS

- A. E. AHRENS, M. D., Assistant.
- FRED S. BECKLEY, M. D., Assistant in Gynaecology.
- S. G. COBB, M. D., Assistant in Clinical Medicine.
- ADOLPH W. JOHNSON, Lecturer on Pharmacy.
- MARGARET KOCH, M. D., Assistant in Pedology.
- A. G. PHELPS, M. D., Assistant in Clinical Medicine.
- NORMAN M. SMITH, Assistant in Clinical Medicine.
- H. O. SKINNER, M. D., Assistant.

## COLLEGE OF DENTISTRY

- ALFRED OWRE, D. M. D., M. D., C. M., 1700 Portland Ave., Dean and Professor of Operative Dentistry and Metallurgy.
- THOMAS E. HARTZELL, M. D., D. M. D., Andrus Building, Professor of Clinical Pathology, Therapeutics and Oral Surgery.
- E. FRANKLIN HERTZ, D. M. D., Andrus Building, Professor of Dental Anatomy and Prosthetic Technics.
- OSCAR A. WEISS, D. M. D., Masonic Temple, Professor Prosthetic Dentistry.

JAMES O. WELLS, A. M., D. M. D., Masonic Temple, Professor of Crown and Bridge Work.

## INSTRUCTORS AND ASSISTANTS

ARTHUR B. ALLEN, D. M. D., Endicott Arcade, St. Paul, Instructor in Operative Technics.  
 NORMAN J. COX, B. S., D. M. D., Masonic Temple, Minneapolis, Instructor in Operative Technics.  
 MARY V. HARTZELL, D. M. D., Andrus Building, Minneapolis, Instructor in Comparative Dental Anatomy.  
 H. V. MERCER, LL. M., Security Bank Building, Lecturer on Jurisprudence.  
 A. L. MOORE, 3240 Pillsbury Ave., Infirmary Clerk.  
 JAY N. PIKE, D. D. S., Masonic Temple, Demonstrator in Operative Dentistry.  
 H. M. REID, D. D. S., Medical Building, Instructor in Prosthetic Dentistry.  
 DON DU VELLO RIDER, D. M. D., Corner Lake Street and Nicollet Ave., Instructor in Prosthetic Technics.  
 J. FRANCIS SCHEFFCIK, D. D. S., Masonic Temple, Instructor in Materia Medica.  
 FRANK W. SPRINGER, E. E., 1206 Fifth St. S. E., Lecturer on Electricity and its uses in Dentistry.  
 JAMES M. WALLS, D. M. D., Germania Life Building, St. Paul, Instructor in Operative Technics and Demonstrator of Operative Dentistry.  
 AMOS C. WELLS, B. A., D. D. S., Andrus Building, Assistant Demonstrator in Histology and Dental Anatomy.  
 FRANK R. WRIGHT, D. D. S., M. D., Pillsbury Building, Lecturer on Anaesthesia and Chief of Anaesthesia Clinic.  
 FRED S. YAEGER, D. D. S., Germania Life Building, St. Paul, Instructor in Crown and Bridge Work.  
 ANDREW J. WEISS, 3708 Stevens Ave., Instructor in Technics.

## COLLEGE OF PHARMACY

FREDERICK J. WULLING, Ph. G., Phm. D., LL. M., etc., 3305 Second Ave., S. Dean and Professor of Pharmacology, Phar. Chemistry and Phar. Jurisprudence.  
 FREDERICK K. BUTTERS, M. S., 815 Seventh St., Instructor in Botany and Practical Pharmacognosy.  
 GEORGE DOUGLAS HEAD, B. S., M. D., Andrus Building, Instructor in Clinical Microscopy.  
 GUSTAV BACHMAN, Phm. D., 612 Fifteenth Ave. S. E., Instructor in Pharmacy and Laboratory Assistant.  
 C. N. McCLOUD, Phm. D., M. D., 965 Selby Ave., Lecturer on First Aids to the Injured.  
 A. E. CARR, D. M. D., 824 Andrus Building, Assistant in Pharmaceutica' Chemistry.  
 E. A. LOOMIS, B. S., 202 Beacon St., Assistant in Pharmaceutical Chemistry.

## DEPARTMENT OF AGRICULTURE

WILLIAM M. LIGGETT, St. Anthony Park, Dean.  
 ANDREW BOSS, St. Anthony Park, Professor of Agriculture and Animal Husbandry.  
 SAMUEL B. GREEN, B. S., St. Anthony Park, Professor of Horticulture and Forestry.  
 T. L. HAËCKER, St. Anthony Park, Professor of Dairy Husbandry.  
 M. H. REYNOLDS, M. D., V. M., St. Anthony Park, Professor of Comparative Physiology and Veterinary Science

- HARRY SNYDER, B. S., St. Anthony Park, Professor of Agriculture Chemistry and Soils.
- FREDERICK L. WASHBURN, M. A., St. Anthony Park, Professor of Zoology and Entomology.
- MARGARET BLAIR, St. Anthony Park, Instructor in Sewing and Household Art.
- WILLIAM BOSS, St. Anthony Park, Instructor in Carpentry and Power Machinery.
- FANNIE C. BOUTELLE, Preceptress, St. Anthony Park, Instructor in English and Social Culture.
- ALVAH M. BULL, St. Anthony Park, Instructor in Drawing and Farm Buildings.
- ESTELLE COOK, St. Anthony Park, Instructor in English.
- J. M. DREW, Registrar, St. Anthony Park, Instructor in Blacksmithing and Poultry.
- A. L. EWING, M. S., St. Anthony Park, Instructor in Agricultural Physics.
- D. B. HOWELL, St. Anthony Park, Instructor in Mathematics.
- FLOY KESSON, St. Anthony Park, Instructor in Music.
- KARL A. MACHETANS, B. A., St. Anthony Park, Instructor in History and Director of Gynnasium.
- DEXTER D. MAYNE, Principal, St. Anthony Park, Instructor in Practicums and Economics.
- W. L. OSWOLD, St. Anthony Park, Instructor in Agricultural Potany.
- JUIATA L. SHEPPERD, M. A., St. Anthony Park, Instructor in Cooking, Laundering and Home Economics.
- EDWARD SIGERFOOS, Ph. B., Capt. 5th U. S. Infantry, 328 10th Ave. S. E., Minneapolis, Instructor in Military Science and Tactics.
- EDITH SNELL, B. L., Merriam Park, Instructor in Algebra and Geometry.
- J. A. VYE, Secretary, St. Anthony Park, Instructor in Accounts.
- GRACE B. WHITRIDGE, 806 Pittsburg Building, St. Paul, Minn., Instructor in Physical Training.
- COATES P. BULL, B. Agri., St. Anthony Park, Assistant Instructor in Agriculture and Rural Engineering.
- MARY L. BULL, St. Anthony Park, Assistant Instructor in Cooking and Laundering.
- LEROY CADY, St. Anthony Park, Assistant Instructor in Horticulture.
- E. G. CHEYNEY, A. B., St. Anthony Park, Assistant Instructor in Forestry.
- GEO. CRAIG, St. Anthony Park, Assistant Instructor in Animal Husbandry.
- D. A. GAUMNITZ, M. Agri., St. Anthony Park, Assistant Instructor in Animal Husbandry.
- JOHN A. HUMMEL, B. Agri., St. Anthony Park, Assistant Instructor in Agricultural Chemistry.
- ALICE JACKSON, B. A., St. Anthony Park, Assistant Instructor in English.
- C. C. LIPP, D. V. M., St. Anthony Park, Assistant Instructor in Comparative Physiology.
- E. C. PARKER, B. Agri., St. Anthony Park, Assistant Instructor in Agriculture.
- WM. A. PETERSON, St. Anthony Park, Assistant Instructor in Horticulture.
- A. G. PUGGLES, M. A., St. Anthony Park, Assistant Instructor in Entomology.
- A. D. WILSON, B. Agri., St. Anthony Park, Assistant Instructor in Agriculture.

This report is respectfully submitted in behalf of the Board of Regents.

JAMES T. WYMAN,

President of the Board of Regents.

University of Minnesota, December 11th, 1906.