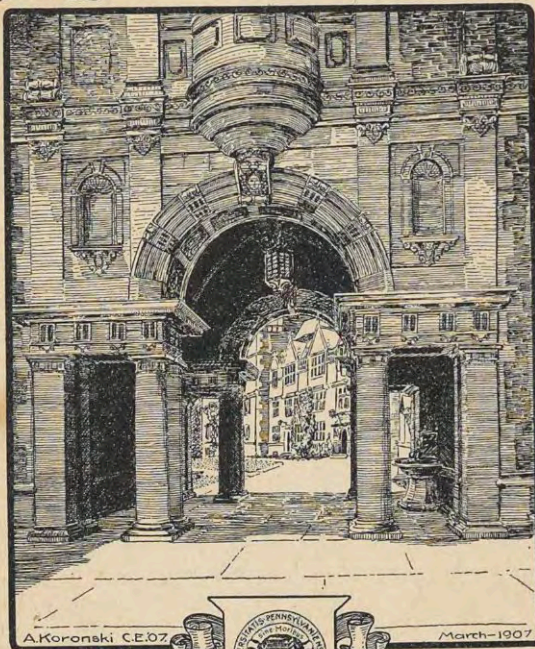


MEMORIAL LIBRARY OF THE PUBLICATIONS

OF THE

UNIVERSITY OF PENNSYLVANIA

AND HER SONS



ESTABLISHED

MARCH 1st 1907

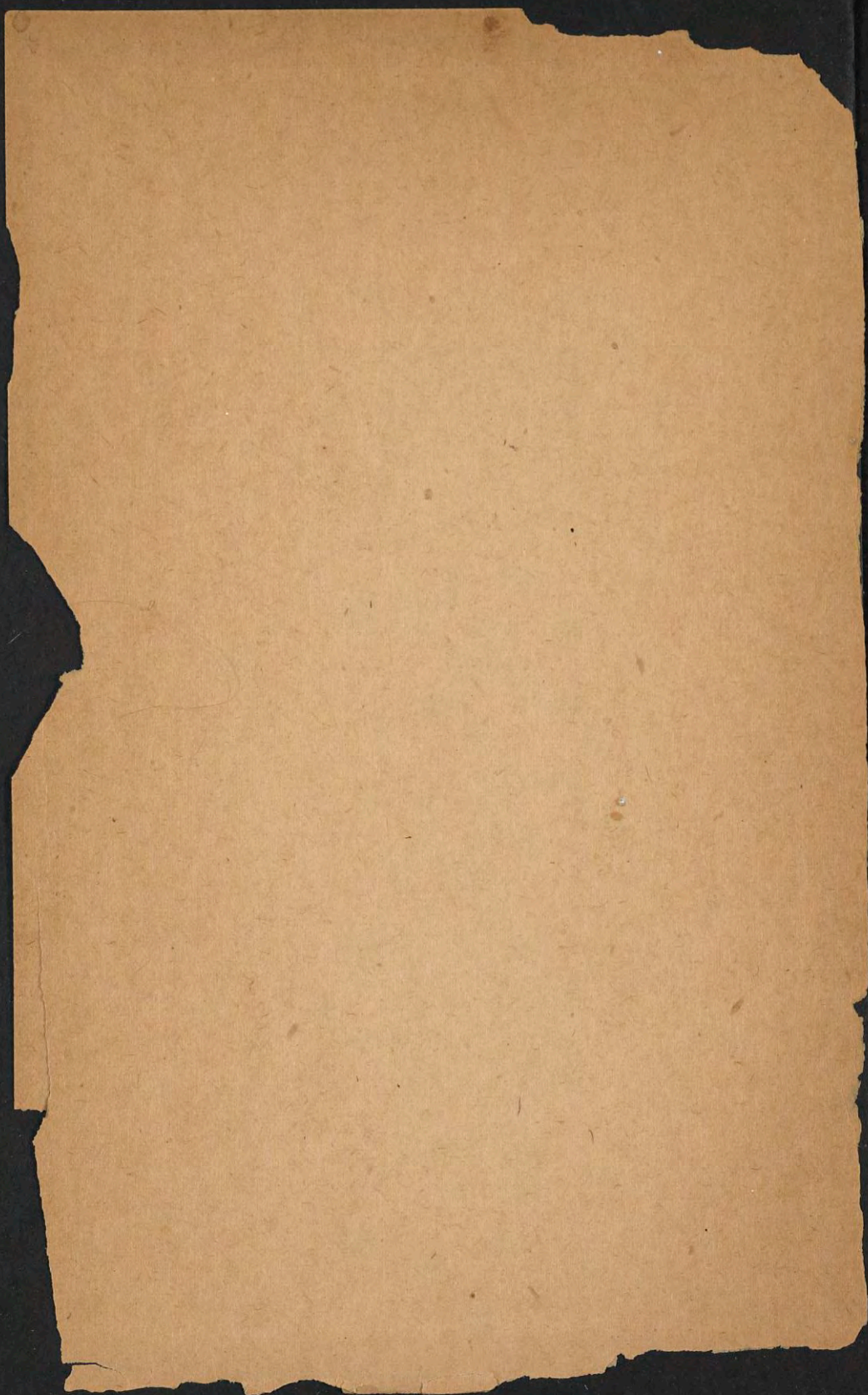
CLASS _____

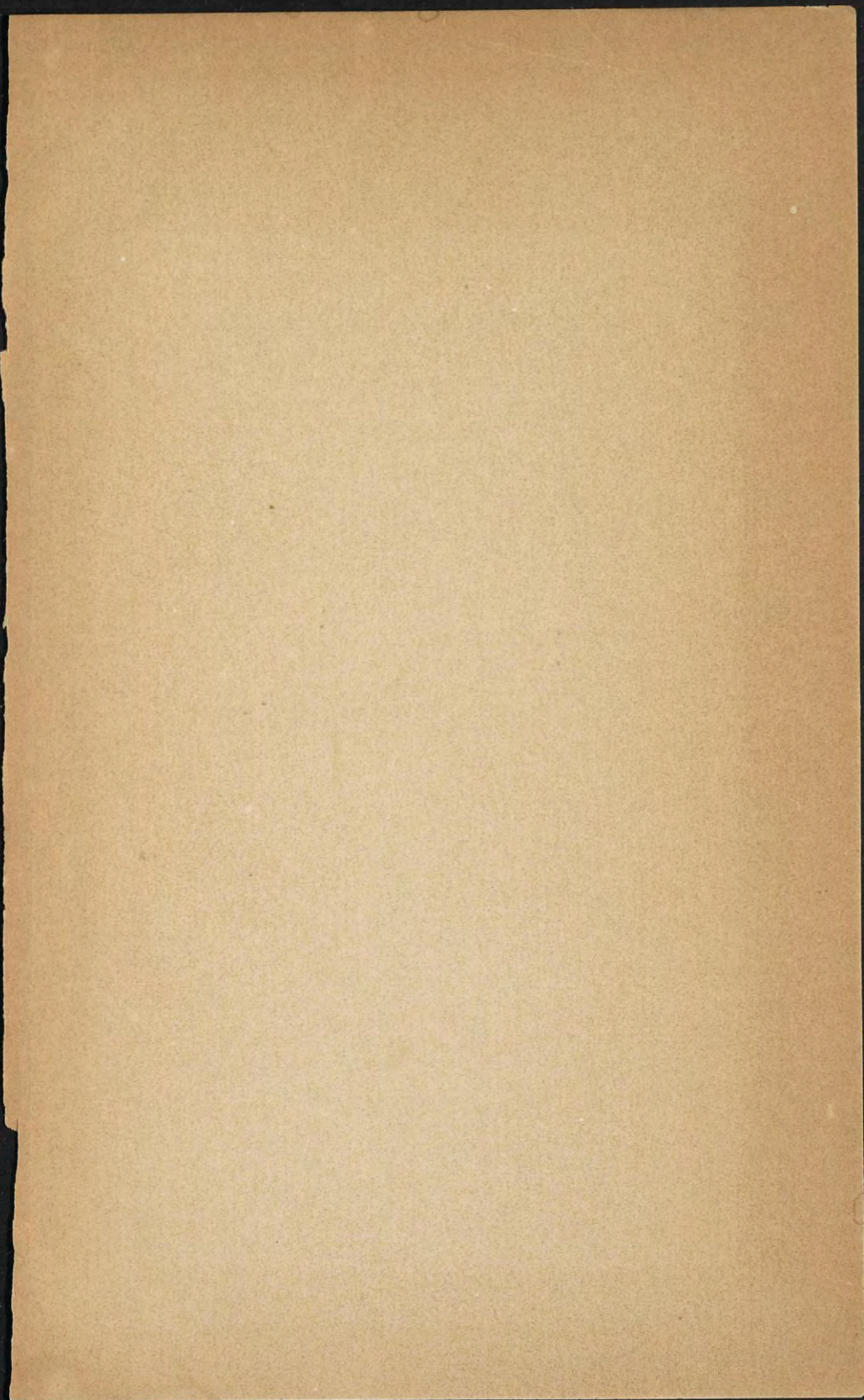
No. _____

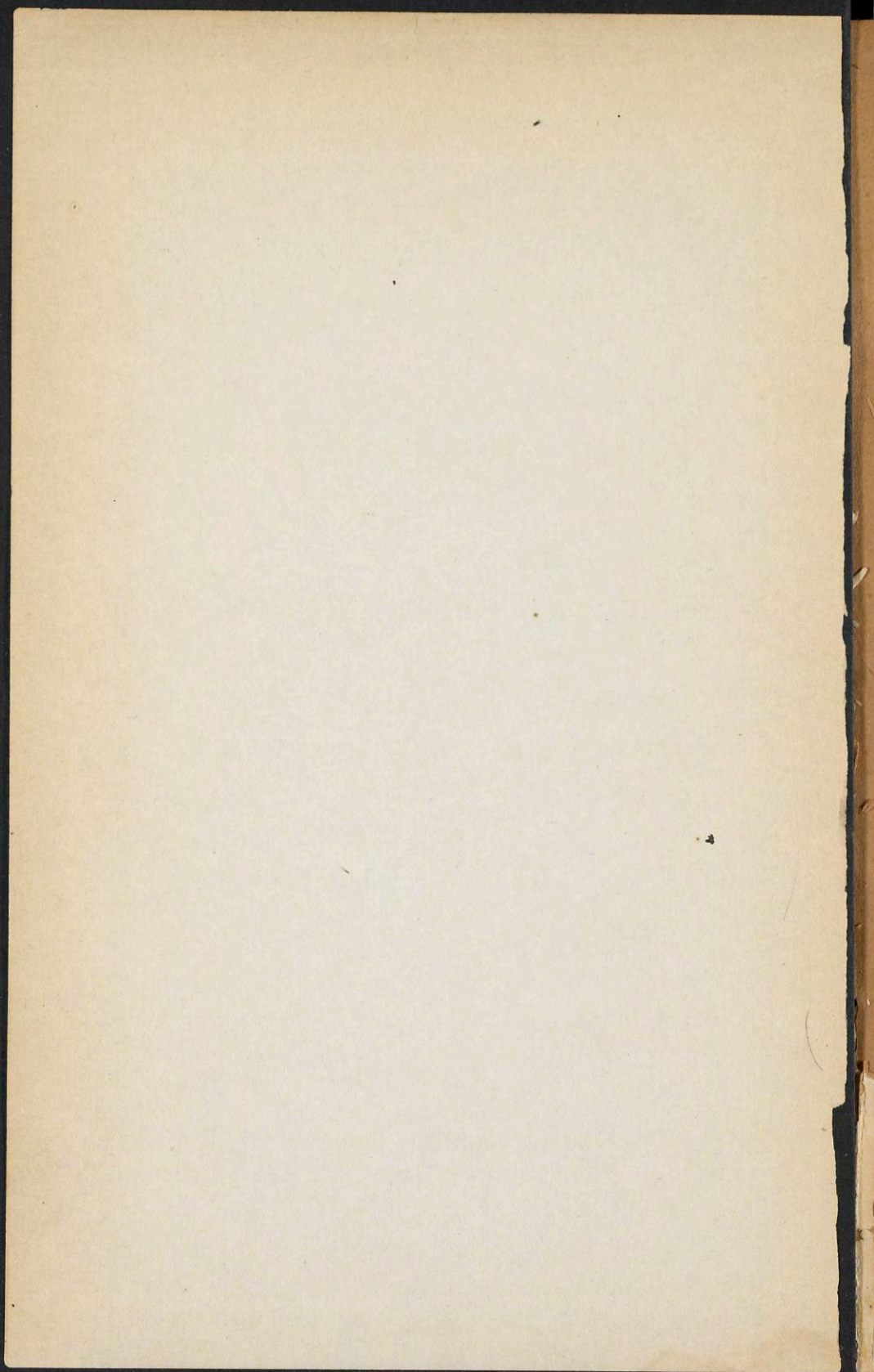
ACCESSION _____

PRESENTED BY
George E. Nitzsche _____









UNIVERSITY OF PENNSYLVANIA



ANNUAL REPORT

OF

THE PROVOST

TO THE

BOARD OF TRUSTEES

FROM

SEPTEMBER 1, 1901, TO SEPTEMBER 1, 1902

PHILADELPHIA

PRINTED FOR THE UNIVERSITY

1902

g. main library, University of Pennsylvania

PRESS OF J. B. LIPPINCOTT COMPANY
PHILADELPHIA

REPORT OF THE PROVOST.

To the Trustees of the University of Pennsylvania;

GENTLEMEN:—I have the honor to present herewith my annual report as Provost of the University. It covers the academic year ending August 31, 1902, and is accompanied by the report of the Treasurer of the University for the same time. In reviewing the events of the year, it is natural to consider first the personal changes which have occurred during that period.

The decease of Mr. Frederick Fraley removed from your Board one who for a long time had been its senior member, and was by common consent regarded as its personal head. There is no need that I should here record the story of Mr. Fraley's civic life, its steady devotion, its many achievements, and its deserved honors. It is enough to say that his relations to the City and the Commonwealth were exactly parallel with those which he sustained towards the University, and either may be taken as typical of the other. He became a member of the Board in 1853, and I am assured by a member of his family that among the many institutions with which he was identified,—in several of which he might be justly regarded as a successor of their founder, Franklin,—none was held in such high affection as the University of Pennsylvania. One of Mr. Fraley's remarkable traits was the tenacity and accuracy of his memory, which seemed to suffer no impairment from advancing years, and which made him an almost infallible authority on the history and business affairs of the University for nearly

half a century. This and his intellectual endowments secured him the admiration of his colleagues. But there were other and perhaps more highly developed characteristics which won to him the warm personal affection of all who had the privilege of association with him. Long after we have departed, the archives of the City and of the University will keep the many tributes which were paid to his life and memory.

Of the Faculty, Dr. William Fisher Norris died after a brief illness. He was a graduate of the University, both of the College and of the Medical Department, and the greater part of his career was closely associated with the University. He became Clinical Professor of Ophthalmology in 1873, and Professor of Ophthalmology in 1891. During the Civil War he rendered distinguished service in the Medical Hospitals, and afterwards devoted himself to the specialty in which, as an author and teacher, he acquired a high reputation. He was one of the group of men who first suggested and, by their services, accomplished the establishment of the University Hospital; and his interest in its maintenance and improvement continued throughout his life. He was President of its Board of Managers at the time of his death, and his interest in its behalf, as well as his devotion to the science of Ophthalmology, constitute a service to the University of conspicuous value. Professor Norris was a man of culture outside the limits of his profession, and I am happy to say that his memory will be preserved in the University by a suitable memorial.

In my last report I referred to the resignation of the Chair of Mechanical Dentistry and Metallurgy by Dr. Charles J. Essig. He did not long enjoy the title of Emeri-

tus Professor with which you recognized his services of twenty-three years in the Dental School, for he died during the past year.

A continuous service of nearly forty-six years more than justifies the mention in this report of Mr. William Henry Salvador, the late clerk of the Medical Faculty. He is kindly remembered by the large number of medical graduates with whom he was in close touch during their student years; and I am told that one of our foreign graduates, visiting the University twenty-eight years after his graduation, was instantly recognized and greeted by Mr. Salvador. He was greatly respected by the Faculty.

Mr. George L. Harrison, Jr., resigned the office of Treasurer after an incumbency of four years. This was a much longer period than he contemplated when accepting the office, and, in view of his future plans, it was felt that he should not be dissuaded from the resignation. The tribute paid by our Auditors, Messrs. Ross Brothers, Lybrand, and Montgomery, when making their last annual examination of the Treasurer's books, is an agreeable testimony to the manner in which the office was administered. He is succeeded by Mr. Francis P. Sibley, who was elected April 1, 1902, and who has since then actively engaged himself in its duties.

After an incumbency of ten years, Dr. John Marshall retires from the Deanship of the Medical Department. He justly received from you an expression of your appreciation of his services in this capacity. Dr. Marshall is possessed of executive ability and of certain business capacities which made him an effective Dean, but his services in that office have precluded him from engaging in the work of chemical

research, from which he feels he should no longer be withheld by administrative duties.

Professor Martin G. Brumbaugh has returned to duty after accomplishing an important preliminary work as the first Commissioner of Education for the Island of Porto Rico. Upon his resignation of that work, the President of the United States asked that we should suggest his successor, and, upon such suggestion, appointed Assistant Professor Samuel McCune Lindsay to that important office. Professor Lindsay was accorded a leave of absence similar to that given to Professor Brumbaugh, and his work has been provided for by distribution until the time of his expected return.

A vacancy in the Board of Trustees was filled by the election of Mr. Richard C. Dale, on nomination by the Central Committee of the Alumni. Mr. Dale is an alumnus of the University, whose life-long interest in its welfare will find enlarged opportunities for expression in the office to which he has been welcomed.

Among the appointments for the year were the advancement to Assistant Professorships of Mr. Schramm, in Mechanical Engineering; Mr. Easby, in Civil Engineering; Mr. Bates, in Greek; Mr. Child, in English; to Assistant Clinical Professorships, of Dr. Spiller, in Nervous Diseases, and of Dr. Burr, in Mental Diseases. These gentlemen had approved themselves by excellent work for several years as Instructors. Professor Charles K. Mills has been transferred to the Clinical Chair of Nervous Diseases; Mr. Elmo G. Harris has been made Assistant Professor of Civil Engineering; Dr. Charles Root Turner, Professor of Mechanical Dentistry and Metallurgy; Dr. John C. Rolfe, Profes-

sor of Latin, and Dr. George E. de Schweinitz, Professor of Ophthalmology.

Mr. Edward W. Mumford has been given the additional title of Bursar, and now efficiently attends to the collection of fees and other important duties of that office.

The statistics classified, as in my last report, and compared with those of the preceding year, are as follows:

PROFESSORS, LECTURERS, AND INSTRUCTORS.

	1900-01.	1901-02.
The College	107	107
Department of Philosophy	51	51
Department of Law	17	17
Department of Medicine	95	102
Laboratory of Hygiene	4	3
Department of Dentistry	42	42
Department of Veterinary Medicine	24	22
Emeritus Professors	4	4
	<hr/>	<hr/>
	344	348
Duplications	79	76
	<hr/>	<hr/>
Total	265	272

STUDENTS.

	1900-01.	1901-02.
The College	1006	1019
Department of Philosophy	168	179
Department of Law	347	386
Department of Medicine	566	542
Laboratory of Hygiene	18	14
Department of Dentistry	417	365
Department of Veterinary Medicine	60	78
	<hr/>	<hr/>
	2582	2583
Duplications	9	10
	<hr/>	<hr/>
Total	2573	2573

I subjoin, as usual, a table giving the geographical distribution of our students for the year 1901-02:

GEOGRAPHICAL SUMMARY OF STUDENTS.

Alabama	6	Illinois	20	North Carolina.....	8
Arizona	2	Indiana.....	9	Ohio	53
Arkansas.....	1	Iowa.....	17	Oregon.....	2
Australia	11	Ireland.....	3	Pennsylvania.....	1777
Austria.....	2	Jamaica	3	Peru	1
Bahamas	1	Japan.....	1	Porto Rico.....	4
Barbadoes.....	1	Kansas.....	6	Rhode Island.....	13
Brazil	7	Kentucky.....	10	Russia.....	1
California.....	11	Louisiana.....	2	Scotland.....	2
Canada.....	21	Maine	21	South Carolina.....	6
Chile.....	2	Maryland..	25	Spain.....	3
China	1	Massachusetts.....	57	Switzerland.....	1
Colorado.....	3	Mexico.....	4	Tennessee.....	6
Connecticut.....	30	Michigan	4	Texas	6
Costa Rica.....	4	Minnesota	2	Utah	1
Cuba.....	5	Mississippi.....	2	Vermont.....	3
Delaware.....	42	Missouri.....	11	Virginia.....	13
Dist. of Columbia..	8	Montana.....	3	Washington.....	6
Ecuador.....	2	Nebraska.....	3	West Virginia.....	12
England.....	10	New Hampshire ...	8	Wisconsin.....	13
Florida.....	4	New Jersey.....	146		
France	5	New Mexico.....	1		2583
Georgia	5	New York.....	39	Duplications.....	10
Germany.....	4	New Zealand.....	10		
Idaho	1	Nicaragua	2	Total.....	2573

The bequests received by and the gifts made and paid to the Treasurer of the University during the last fiscal year ending August 31, 1902, are very much larger than any financial year of the University has ever shown. The principal bequest was that which came to the Corporation through the will of the late Joseph M. Bennett. This bequest consisted wholly of real estate, of the appraised value of \$481,000. The purposes of the bequest will be referred to in another section of this report. By reference to the Treasurer's statement, your Board will observe the great number of contributions, and that the total sum paid in during the year,

**Bequests
and Gifts.**

including therein the valuation of the Bennett property, is \$936,851.67. This amount, of course, is exclusive of tuition fees and of income from investments, and represents, as I have said, the paid-in gifts during the fiscal year.

By reference to the previous reports of the Provost, it will be found that in the last eight years the University has received contributions in the aggregate sum of \$4,750,161.82. It is a symptom of the University's urgent financial need to state that the Treasurer has in his safe-keeping additional subscriptions—soon to be paid, or payable in annual instalments in the coming few years, and binding upon heirs, executors, and assigns—amounting to more than one million of dollars.

The promise of Mr. Joseph Wharton, made on June 17, 1902, and announced upon the next day (Commencement Day), to increase the endowment fund of the Wharton School to five hundred thousand dollars is a part of the pledges which the Treasurer holds, and is the second largest promise which the University has received in the months under review, and one of the four largest benefactions in the history of the University. Reference will be made again to Mr. Wharton's generosity and to his purposes in reference to the Wharton School. An agreement between your Board and Mr. Wharton has been cordially made as to the terms of the endowment; the deed of gift has been executed by the contracting parties, and Mr. Wharton, of his own accord, has made any sum still to be paid a binding obligation upon his estate.

These two benefactions—the Bennett bequest and the Wharton increased endowment—are princely gifts indeed for Philadelphia; but no less interesting is the fact which

the Treasurer's report discloses, that nearly five hundred thousand dollars were received during the year (separate and apart from the report of the Treasurer of the Department of Archæology) for advancing the work of the University and for carrying on its general purposes. This sum of nearly five hundred thousand dollars came from more than four hundred contributors, and is a strong and encouraging evidence of the large-minded and increasing interest accorded to the University by citizens of the State of Pennsylvania and by our Alumni now living at a distance from their Alma Mater. It is impossible to receive these gifts without a deeper sense of responsibility, and without making a truer effort to realize the purposes of the University. To paraphrase the affecting words of a man who stood in the same relation to the University of Sydney, Australia, as Benjamin Franklin stood in relation to the University of Pennsylvania :

“ We see in these gifts the facilities given to the child of every man, of every class, to become great and useful in the destinies of his country. We see through them the path opened not only to the rich, but to the poor, to take, through his own endeavor, the highest position which our country can afford him.

“ These gifts are not the crowning acts of men, but rather the crowning mercies of men, and by that test they will securely abide. So long as the University exists, they will not be forgotten ; so long as its memory flourishes, their memory will not decay. We may pass laws, but laws may be altered ; may, in the change of fleeting circumstances, be swept away ;

but gifts to a University,—which enlightens the mind, refines the understanding, and elevates one's fellow-men,—these, of all acts, contain the germ of immortality.

“Pregnant, indeed, should be the womb of such an Institution as the University of Pennsylvania, which has the responsibility, in accepting such benefactions, of creating a long list of illustrious names,—of statesmen, of patriots, of philanthropists, of philosophers, of poets and of heroes,—who will shed a deathless halo not only on their country, but upon that University which called them into being.”

The growth and development of the University along distinct and carefully planned lines has progressed without incurring any debt, so that no one now collects an interest charge against the Corporation. It will occur to every one that this has been possible only through such thoughtful generosity as has been recorded in each of the Provost's Reports, of which this is the seventh. It would be quite untrue not to say in advance that whatever Board of Trustees may direct the affairs of the University will require in the coming years quite as large gifts as have now been noted; otherwise, it will be impossible for the University to hold the place which she has attained. It is my fervent wish that, after such a record as the University now exhibits, the Corporation will begin to be remembered frequently in the wills of charitably disposed people. The University guards its trust funds as sacred trusts. The accounts of its financial officers are annually audited by chartered accountants. The Treasurer's Office would welcome any examiner of the methods of keeping the accounts and funds, and I venture,

on your behalf, to express the hope that the Corporation (whose legal title is "The Trustees of the University of Pennsylvania") may from this time forth be frequently remembered by will.

In February of 1902, after a study of the requirements of the subject reaching to the point of severity in its painstaking nature, your Board made a contract for the new Medical Laboratories, upon the plans finally adopted from the specifications of Messrs. Cope & Stewardson.

**New
Medical
Laboratories.** These new Laboratories will, when completed, provide very abundantly for the subjects of Pathology, Physiology, and Pharmacology. In the extent of the building itself, and in its cost, it is the largest financial undertaking which your Board has felt obliged to meet, exceeding by nearly two hundred thousand dollars the outlay for the new building of the Department of Law completed in 1900.

An unfortunate strife between two labor unions has delayed the progress of the building, and, while some solution of the conflict must of necessity work itself out, no way seems open as this report is written, and it is more than unfortunate that the charitable work of the University should be so delayed.

Naturally, the laboratory facilities which the Medical Department will soon enjoy will be emphasized, without equivalent advance in the opportunities for practical or clinical facilities. The one is as important as the other; and it is greatly to be hoped that the friends of the Medical Department, which represents so much that is helpful and humane, will see that students in Medicine will be able to thoroughly profit by greater symmetry of provision in the

practical as well as the theoretical subjects of medical inquiry.

Since your Board, upon the recommendation of the Medical Faculty, increased the entrance requirements, and at the same time increased the annual fee, there has been a marked decrease in the number of students in attendance upon our noted School of Medicine. I do not mean to say that this lesser number is due wholly to these two causes; partially, at least, it is due to them; to the fact, also, that easier ways of ingress and egress to the practice of the profession exist elsewhere; and, partly, to causes which it is in our own power to change. On the other hand, it is a happy fact that the University does not now consider the financial or commercial side of any question in reference to medical education, but has courageously and calmly faced an enormous decrease in its student-fees, because it is right to exact requirements for admission to the Medical Department, which prove at the least that the intending student has enjoyed a good preparatory education. While the number of students has, as I have said, largely fallen off, the educational standing of our students at their entrance has largely risen. More than fifty per cent. of the First-Year Class are college graduates, and the preparatory training of quite ninety per cent. is creditable. The results of your Board's action, while financially disastrous,—but only, I believe, temporarily so,—have justified themselves in at least two manifest ways: (*a*) The standing of our men before the State Examining Board, in their application to practise in the State of Pennsylvania; (*b*) In the curious fact that the quiz-masters, who did a profitable business in coaching

students a few years ago, have lost their occupation, the men being able to take care of themselves.

I venture to predict, however, that with closer attention to our own internal affairs, and with the added facilities which the Medical Department will hereafter offer, there will be a widespread attraction again upon the part of the well-trained student to enter our Medical Department. This attention to the University of Pennsylvania on the part of those who wish to practise Medicine will be attracted upon good grounds if the State of Pennsylvania may be influenced in two ways to fulfil her own duty in the premises. The questions of life and health, and of suffering and disease, and their prevention and cure are certainly as important as those questions which deal with the laws which govern society. We may set our own standards of admission and exit; but if the State of Pennsylvania sets lower standards for license to practise Medicine, she lends the worst kind of encouragement to inferior men to enter one of the three great professions. It may be suggested that a body of proper men, appointed by the State, might sit as an examining body, not only for the license to practise Medicine, but for permission to enter a Medical School; or, at the least, that adequate requirements for admission to the study of Medicine shall be legally established. For nearly thirty years, by rules of the various county courts in most of the counties of the State of Pennsylvania, before an applicant can be registered as a student at law, he must pass a preliminary examination evidencing his qualification to begin the study, and recently the Supreme Court of Pennsylvania has adopted a general rule, operating throughout the State, prescribing a high standard of qualification for all who register as law students with intention to become members

of the Bar of that Court. As it is at present, the State of Pennsylvania grades its medical practitioners by the lowest standard, and not by the highest standard; and it is to be feared that no permanent protection can be safeguarded to every home in this Commonwealth until the State, by law and the wisdom of its appointments, permits no one to receive a license to practise Medicine who has not passed a fit examination for admission to a Medical School; and who then, upon graduation, shall have passed the requirements of an exacting and well-chosen State Medical Examining Board. Then we will grade ourselves by the standard of merit and not by the standard of demerit.

In my preceding official report to your Board, I called attention to the arrangement which had been effected between the College and the Medical Faculties by which a composite year of study is offered to candidates for the A.B. degree who propose to take up the study of Medicine, and who have pursued the special courses leading to that degree while in College with us. The result of this composite year is to reduce the number of years necessary to acquire the two degrees of A.B. and M.D. from eight to seven, and it is accomplished by combining the studies of the first year in Medicine with certain required studies in the senior year in College, the student being registered in both Departments.

The number of students who availed themselves of this privilege, when first offered, was but two. At the opening of the academic year, September 1, 1901, of which this report is a record, the number had increased to nineteen,—these nineteen being of our own University of Pennsylvania College men, proceeding to the Department of Medicine.

I wish to refer, also, to the fact that a post-graduate Medical Course was begun during the year, including both laboratory and clinical instruction. Each of the courses extended over six weeks, and twenty-eight graduates in Medicine were in attendance. As a whole, I believe that the result was quite as successful as was anticipated, and I hope that this new feature of our University work may be followed on, year by year, with greater and greater helpfulness to our Medical graduates.

The University will take rank, in my opinion, at all times—as well to-day as in the coming years—by the condition of the College. If the College be strong, the University will be strong, and if the College be weak, the University will be weak. The utmost interest must **The College.** be taken by every Board of Trustees in advancing the standing of the College. The professional schools will have their best growth upon the soil of the College. It is as interesting as it is gratifying to know that the earnest efforts which had their beginning a few years ago, to take care of College students in residence, are now beginning to show result in the increase of the College, not only in numbers, but in the standing of the students and in their geographical distribution. During each of the past three years there has been a marked increase in the number of regular students registered in the College,—that is to say, in the number of students taking the prescribed courses leading to a degree. The report of the Dean gives the percentage of this increase. Our own experience, and the experience of urban universities in this country, has hitherto been adverse to the development of influential colleges of high standing and of cosmopolitan reputation. Un-

doubtedly, the principal reason has been the lack of room for the erection of dormitories and for those other provisions of undergraduate student-life which enter so deeply into the affections of college students. The University of Pennsylvania occupies a very peculiar position of advantage and opportunity for the development of college life and college spirit, and I hope that we may never forget that the counter-sign of our University's success is to be the word "College." If we can continue, and deserve to continue, the present rate of growth for the next few years, we shall assuredly fix the University of Pennsylvania in the thoughts of the nation in a way of helpful sympathy and respect which has never hitherto been the case.

I desire to impress this thought and fact not only upon every graduate of the College, but upon every matriculant or alumnus of each of our professional schools as well. Let his thoughts go first to the College, and he will render the best service to the graduate schools of the University as well. This belief to which I now give expression is, I feel sure, a growing sentiment, and I wish to make particular and prophetic reference to the welfare of the College as being the best basis of all our work at the University.

All the rooms in the two sections of the Dormitory System, so far erected, are full, and arrangements must be made to take into residence, under the University's supervision, many students who are obliged to live at some distance, be it great or little, apart from the University, with all its stimulating associations. The sum of about six hundred thousand dollars, entirely received by private gifts, has been already expended upon these halls of residence. We have more than enough ground set apart and vacant and ready for another and equal extension of the Dormitory

System, and every one of us feels assured that not a room would be vacant, if we could double the present number. The plans have all been prepared, and we are ready for the help so much needed, and so permanent and fruitful in character.

It is affecting in this relation to think that the two men whose genius and patience thought and worked out a completed Dormitory System for the University have both passed away. The first creative mind was that of Mr. John Stewardson, whose sudden death by drowning brought to all of us the deepest grief, mingled with the deepest purpose. Not many days ago, the man who accepted his plans and thoughts, and who worked out the detail of the Dormitories, Mr. Walter Cope, died after a few moments' illness.

The matter of chief general interest, so far as the colleges at universities are concerned, appears to be the length—or, rather, the shortening—of the college period. The views upon this subject are so at variance and so discordant as to leave the question in a chaotic condition, and each institution does what it deems right from its own point of view. Undoubtedly the success of each is the result of the belief which each institution has that its way is the best. The University of Pennsylvania has not believed that a young man of seventeen or eighteen is the most competent judge of what is best for him, and has therefore for some years taken groups of selected subjects as the main basis of election. During the year under discussion, the Academic Council of the College agreed with unanimity to make possible the giving of the degree in three years, in the Courses in Arts and Science, in Finance and Commerce, and in Biology. I need not refer in minute detail to the arrangement under which this plan has been authorized. In general, it may be

said that, in the three courses stated, the student who can successfully complete, by devotion to his work, the four years of study in three years will be permitted so to do. On the other hand, a student who wishes to arrange the work now comprised in the four-years' course may prolong, upon a systematic schedule, this work to five years. In brief, the normal four-years' course may be abbreviated to three years,—in the case of such students as show themselves able to do the four years' normal course in one year's less time; or it may be prolonged to five years, when a student prefers, for reasons satisfactory to the Dean or to his Committee, to devote five years to his college work instead of four.

It was announced that these options would go into effect with the year beginning September 1, 1902,—a year to be reviewed in a future report; but it is interesting to know that about ninety per cent. of the students have chosen the full four-years' course.

There is one bad habit in educational practice in this country which has a great deal to do with the subject so much discussed in recent months. It is the length of the vacations, or, in other words, the relatively large number of idle days in every year. There are three hundred and sixty-five days in the year. Subtracting the holidays, the long vacation, and the various recesses, about two hundred days only are given to required study in preparatory school, college, or professional school, and often a lesser number than these days; when, after leaving the University, every man who means anything to the community must work every week-day throughout the year, except upon his summer vacation. The number of idle days, both in school and in the University, is excessive and demoralizing, and is not to be excused. A boy should go up to College at seven-

teen instead of at eighteen, should do all the fruitful work of the College in three or four years, and, if he proceed to one of the professional departments, should be enabled to readily take care of himself at the age of twenty-four or twenty-five. But this means co-operation on the part of preparatory school, college, and university alike. Two hundred days in the year with work to do, and one hundred and sixty-five days in the year with no work to do, is not a fair division. We can get in a year's more work before eighteen, and another year's more work before twenty-five, without damage, but with benefit to the physical, mental, and moral condition of all concerned,—student and teacher.

While the College has received many gifts during the year, in the way of additions to the Library and the purchase of scientific apparatus, the great event has been the enrichment of the endowment of the Wharton School by Dr. Joseph Wharton's benefaction, already referred to. The two broad purposes of Mr. Wharton's gift are maintained and stated in the new Deed of Gift, superseding all previous engagements between Mr. Wharton and The Trustees of the University of Pennsylvania. These two purposes may well here be recited. The Wharton School of Finance and Commerce offers facilities for obtaining:

(1) "An adequate education in the principles underlying successful civil government."

(2) "A training suitable for those who intend to engage in business, or to undertake the management of property."

I have Mr. Wharton's permission to state that he has purchased, as an additional gift to the University, the large vacant property directly opposite the Wistar Institute of Anatomy, and fronting on both Woodland Avenue and

Locust Street. Upon this property Mr. Wharton contemplates the erection, in 1903, of a building for the Wharton School of Finance and Commerce.

The Dean of the Department of Philosophy expresses pardonable pride in the high standard and wholesome growth of the Graduate School, and to that School has come this year the very important benefaction under the will of Mr. Joseph M. Bennett.

**The
Graduate
School.**

The Graduate School of the University has always admitted to the degree of Ph.D. men and women upon equal terms. The bequest of Colonel Bennett was wholly in real estate, which at this time is all income producing, and his will, written throughout in his own handwriting, prescribed very definitely the two purposes for which the income is to be applied. One of these two objects is the maintenance of the higher education of women in the Graduate Department; and the second, the erection of a building to cover the site now filled by the houses on Walnut Street, beginning at the southeast corner of Thirty-fourth and Walnut Streets, and extending, without interruption, eastward. Two mortgages, of five thousand dollars each, have been satisfied, and the remainder of the income received up to this time has been invested in an accumulating building fund. Some years must elapse before this fund will be large enough to carry out Colonel Bennett's expressed purpose; but the fund will continue ceaselessly to grow, by additions to the principal and by accumulated interest, and some financial plan may be adopted to anticipate the wishes of the testator. No more important work is before your Board than that of continuing to strengthen the Graduate School. It is quite unnecessary to enlarge upon a subject of such deep and fundamental moment. As a matter of

record, Colonel Bennett's desire always was that the building should be known after his mother, Mrs. Mary Monroe Bennett.

The report of Dean Newbold merits attentive reading, and I call particular attention to these sections of it:

(1) The information under the title "Registration."

(2) The large representation by institutions (nearly fifty in number) in our Graduate School.

(3) The itemized statement of the degrees given upon recommendation of the Faculty of Philosophy at the Commencement held upon June 18, 1902.

(4) The positions obtained and now held by our graduates in Philosophy because of our Fellowship System, and because, also, of the ceaseless interest taken in the Department by its head.

The attention of your Board has been called to the recommendation of strengthening the graduate work in Romanic languages, and I hope that a succeeding report may announce the addition of this need, so serious in Dean Newbold's view.

The Department of Veterinary Medicine has been moved from its old site, at Thirty-sixth Street and Hamilton Walk, to the corner of Thirty-ninth Street and Woodland Avenue, where, together with the Veterinary Hospital, it is temporarily housed. The property dedicated to the science of Veterinary Medicine includes about fifty-five thousand square feet of ground, and is very suitably situated.

**Department
of
Veterinary
Medicine.**

It is that Department of the University which, up to this time, appears to have made less impression, as a public necessity, than any other University subject. But

the subject deserves, and I hope will receive, private support and the support of the State of Pennsylvania. Animal industry is the chief factor in agriculture, and upon the healthy condition of agriculture depends, economically, the welfare of the country at large. The time cannot be far distant when this country, new as it is, will recognize the vital significance of the educated veterinarian. The productivity of the farm animal and immunity from preventable disease must be reckoned with in the largest measure in considering the general condition of our country. Our School of Veterinary Medicine is now eighteen years old, and has received but little support. In Europe, every country has a Veterinary College, supported from the public funds. The value of the farm animals in the United States, their value in the State of Pennsylvania alone, the value of their products, the possibility of the increase in the value of these products, the enormous losses from preventable disease, the question of the diseases common to men and animals, and their transmissibility,—afford reasons for the liberal maintenance of a Department of Veterinary Medicine and a Veterinary Hospital at the University which need not be recited. The Faculty of the Department and the student-body have worked faithfully and hopefully under very discouraging circumstances. The State of Pennsylvania could afford, with the fullest justification, to do for the interests of agriculture what the Legislature of the State of New York has done in the establishment of the State Veterinary College at Cornell University. Funds should in some way be provided for the erection and equipment of suitable buildings, for their annual support, and for the conduct of research work. As a

result of the poor facilities of veterinary science in this country, the veterinary profession has never taken the high rank that has been accredited to it abroad. In Europe it is recognized as one of the learned professions, and many of its members have made discoveries in science which entitle them to rank with the illustrious pathologists and sanitarians of the world. The Department is a very important part of the work of the University, and that one for which your Board of Trustees has up to this time been able to do less than for any other of its Schools. Except for the spirit which animates teachers and students alike, and the excellence of the work done, the conditions in the Department in respect to the salaries paid, in respect to the opportunities for research work, and as to the shabbiness of the buildings, are really a public reproach. But in an institution which has become so complex as our University, and where every one of its numerous Departments, and the divisions of these Departments, require at all times assistance, it is impossible to do everything at once; and we can be but too thankful for the growth of the University and for the interest which the public manifests in a larger and larger way, because of the University's public service. As the fixed charges of the University still exceed its income, no need can be supplied, whether that need be great or small, except by private aid; but it is most stimulating to look back and see that every want of the University comes at the last to be filled, no matter how severe the struggle may have been.

We may look back but a few years to the time when the Library of the University was open once a week only, upon Wednesday afternoon, after one o'clock, and when our little

collection of books was in the room now occupied by the Department of Mineralogy, in College Hall. Reference to the report of the Librarian shows **The Library.** that the University now has two hundred and thirty thousand bound volumes catalogued, with an accession list in the last year of quite thirteen thousand volumes. The sources of this accession are given at length in the report of the Librarian.

We may also look back but a few years to the time when the Library of the University received but three periodicals, either by gift or purchase,—it is within the memory of our Vice-Provost when this was the fact,—one of the three journals being a scientific periodical sent to the Library by the late Mr. Fairman Rogers.

During the year under review, the number of periodicals received at the University Library, either by gift, purchase, or exchange, was 1082,—covering almost the entire field of literary and scientific production, and in many languages.

I desire to state these contrasting facts not only for their own value, but because they form a basis of looking at the growth of the University in so many other ways, of which this one is a single indication.

I beg to refer you to the valuable report of the Librarian for the sketch of the year's work in this most active and energetic Department. It has the benefit of the supervision and support of your Trustees' Committee, concerning whose fidelity much might be said. Their work, indeed, has been a creative work, and the thanks of the students, the teaching-body, and their co-Trustees are alike due to them.

In all previous statements to your Board I have followed the habit of making an abstract of the report of each

of the Deans and of other University Officers. I shall be very glad if, as to the remainder of this account of the work of the year, I may refer you directly to the separate reports themselves, in all their completeness. I have thus far commented upon such parts of the many reports as seemed, in my judgment, desirable to emphasize.

To the report of the Director of the Wistar Institute of Anatomy,—of a year, stated in his own language, the most successful in the history of the Institute,—I may add the information, for permanent record, that through the never-ending bounty of Isaac J. Wistar, and with the willingness of the authorities of the City of Philadelphia to sell at a fair price, the **The Wistar Institute of Anatomy.** Museum now owns all the land bounded by Thirty-sixth and Thirty-seventh Streets and by Spruce Street and Woodland Avenue; so that the Wistar Institute of Anatomy is protected for all time to come, both as to the room required for its work and in the abundance of light on all sides.

The Department of Dentistry is the most cosmopolitan of any one of our Schools, attracting, upon the basis of its merit, students from all over the world. When a student comes sixteen thousand miles to enter the Department of Dentistry of the University of Pennsylvania, he **Department of Dentistry.** comes for a good reason; and as many students in this School come to us from distances ranging from three thousand to ten thousand miles, we have there a body of earnest, self-respecting, hard-working young men, in whom we may well take great satisfaction, and with whom, in personal acquaintanceship, I have had great pleasure. It is to be observed, in reading the report of

Dean Kirk, that, beginning with the year September 1, 1903, the course in Dentistry will be prolonged to four years.

For information as to the Department of Law, I respectfully refer you to the report of the Dean. For information as to the University Hospital, to the report of its Secretary, noting, in the latter case, that the annual expenditure of the Hospital is now one hundred and forty thousand dollars, and that its work has doubled in the last ten years. The Department of Archæology offers a theme fascinating in its opportunity, and noteworthy, this year, through the work of Dr. Hilprecht. Every one will agree that this may truly be said, without subtracting at all from the tribute which is due to one and all who are interested in this attractive section of the University's scientific work.

I have already informed your Board in this report that the new Medical Laboratories, whose construction has been temporarily delayed by a discord between two labor unions, represented a part of the new and important work actually undertaken during the year. In my last report, I spoke of the consideration which your Board was giving to the necessity of strengthening our Engineering instruction in their Mechanical, Electrical, and Civil Sections. I referred to the fact that no provision, in any adequate sense of opportunity, was to be found within the limits of the State of Pennsylvania, and that this condition was a reproach to the State,—just as the neglect of our work in Veterinary Medicine continues to be. The favorable elements in the State of Pennsylvania for an Engineering School of the first rank have been made evident. Its two great cities are rapidly growing in population, as is the State itself. The manufacturing interests represented in these cities and surrounding terri-

tory are vast. These require an unusually large proportion of technically trained assistants, both in their operation and in designing their products. And the duty of the University is to answer the call for these assistants through the special training of educated and cultured engineers.

It is with much pleasure that I am able to make the record that, following the contract which your Board has made for the erection of the new Medical Laboratories, plans have been accepted for the new Engineering Departments, and that, as soon as the specifications shall have been completed and the competitive bids received, your Board will undoubtedly be in a position to enter into a contract for a new building for the Engineering Departments. The Professor of Mechanical Engineering and the Professor of Civil Engineering, with their assistants, have studied the requirements in details for many months, and have personally visited every engineering school from Montreal to New York. Their instructions have been, and the instructions given to the architects have been, to be complete in their suggestions; and in the official report made to me I am informed that the proposals for installation of a teaching-plant in Mechanical, Electrical, and Civil Engineering, which the architects have changed from proposals into definite form, will present student opportunities unequalled in this country. So that, just as the Dean of the Department of Law states in his report, now submitted to you, that our physical equipment is superior to that of any other Law School in the world, the heads of our engineering subjects may be able soon to use the same words in reference to their Departments, for nothing has been subtracted from the desire of either engi-

**New
Engineering
Departments.**

neer or architect. It is the expectation of Messrs. Cope & Stewardson to begin this new work in the spring of 1903.

There is, indeed, great need of financial assistance. It is felt everywhere at the University, and I will not say more than that it exists. It is a problem which has to be solved; but each year finds the University with more friends, willing to help. There is one need which is upon my mind—or, rather, upon my heart—every day in the year. It arises from the unrequiting salaries which we are able to pay to our junior officers of instruction. Modest advances were made last year in a number of instances; but the cost of living has risen in the year to its highest point, and we pay but meagre stipends to men who, of all others, need relief from anxiety for the bringing out of the best that is in them. Such men as these, too, are they who are entitled to the enjoyment of occasional travel, to the ability to buy books and scientific apparatus, and to make their influence felt in social ways; but all of these demands require a different scale of payment than that which universities in general, and our own University, have been able to offer. I write with a feeling of the utmost desire that funds may be provided towards the increase of salaries,—particularly of those of our junior teachers.

The University has grown to occupy entirely the estate which it owns. All the land which it possesses is now either covered by buildings or has been set apart for the extension of University buildings already begun; as, for example, the Dormitory System and the Free Museum of Science and Art. No one could consent to filling up the open spaces between University buildings,—that would be ruinous and would be a desecration.

**Need of
More Land.**

We can only look, I think, to the public sentiment of citizens of Philadelphia to see that the University is given the chance to develop towards the south. In every direction we are surrounded by a built-up city, excepting towards the south, and by Woodland Cemetery. The latter, of course, cannot be considered. Its beautiful trees and the great extent of its grounds make "Woodlands" a helpful neighbor. I must assume that there cannot be in the city a dissenting and unselfish opinion as to the opportunity which the City of Philadelphia has to protect the future of the University in every way in which she can do so. This matter of additional land is one of the ways in her power. I respectfully call the fact of our need and of the existing opportunity to the attention of the Trustees of the University.

Almost at the beginning of this report the figures were given as to the benefactions, itemized in the Treasurer's report, which the University had received during the year. There are many other ways in which the University has received help of equal value. I can truly say that a feeling of affection and devotion to the University animates the student-body in greater measure than has ever before been observed, and the same spirit is beginning to move our alumni as well. The amount of voluntary work which many students do, as missionaries for the University, in the various Clubs and Associations with which they are connected, and which they themselves originate, can only be known to those who are close to the student-body. I wish to recognize its value, and to predict its continued influence and importance.

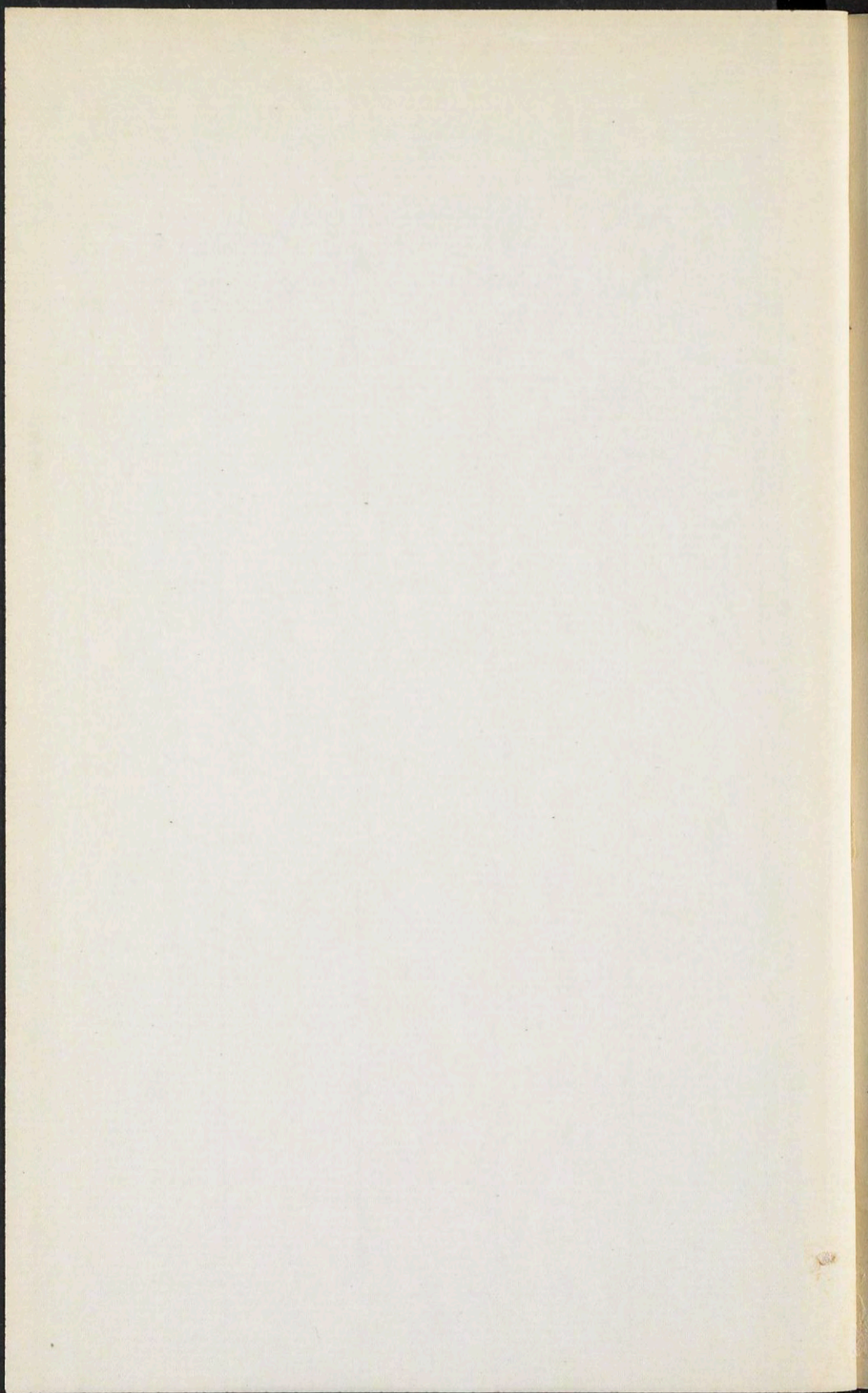
In conclusion, I believe that every one of us can say that the past year has been a year of strength in the annals of the University, and that its history will so be written in future time. My best hope is that the coming year may be as fruitful as that which has closed.

I am, very respectfully,

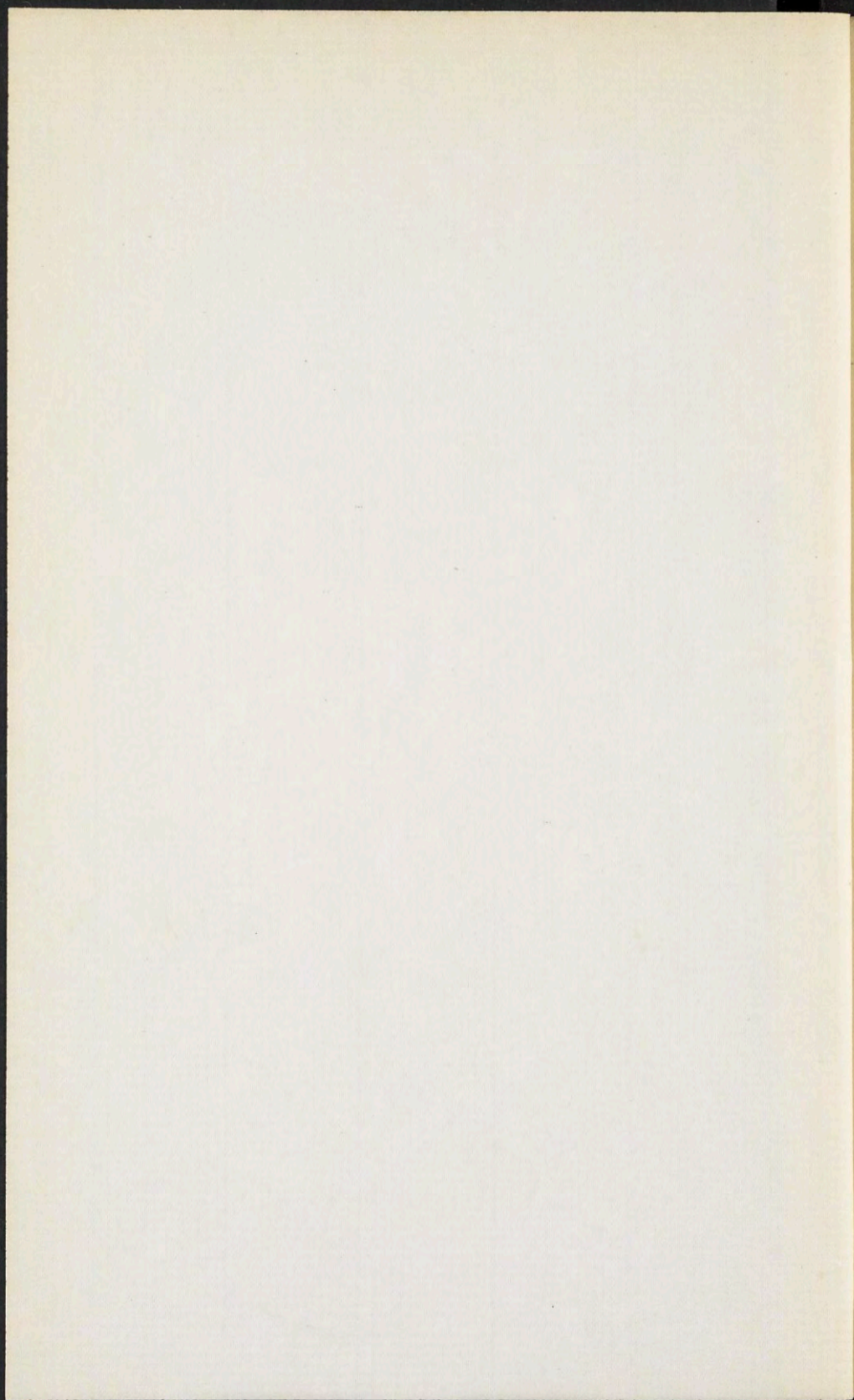
Your obedient servant,

CHARLES C. HARRISON,

Provost.



APPENDICES.



APPENDIX I.

PERSONAL CHANGES.

BY DEATH.

- FREDERICK FRALEY, LL.D., Trustee.
WILLIAM FISHER NORRIS, M.D., Professor of Ophthalmology.
CHARLES JAMES ESSIG, M.D., D.D.S., Emeritus Professor of Mechanical Dentistry and Metallurgy.
WILLIAM H. SALVADOR, Clerk of the Medical Faculty.

BY RESIGNATION OR EXPIRATION OF TERM.

- CHARLES K. MILLS, M.D., as Professor of Mental Diseases and Medical Jurisprudence.
WILLIAM G. SPILLER, M.D., as Demonstrator of Neuro-Pathology.
M. HOWARD FUSSELL, M.D., as Instructor in Clinical Medicine.
GEORGE LEIB HARRISON, JR., as Treasurer of the University.
HENRY R. SEAGER, PH.D., as Assistant Professor of Political Economy.
MAZYCK P. RAVENEL, M.D., as Lecturer and Demonstrator in Veterinary Bacteriology.
WALTER L. WEBB, C.E., as Assistant Professor of Civil Engineering.
DANA CARLETON MUNRO, A.M., as Assistant Professor of History.
GUTHRIE McCONNELL, M.D., as Assistant Demonstrator of Histology.
JOHN MARSHALL, M.D., NAT. SC. D., LL.D., as Dean of the Medical Faculty.
FRANK EDSON PERKINS, S.B., Arch. Diplôme du Gouvernement Français, as Assistant Professor of Design.
THOMAS H. P. SAILER, PH.D., as Instructor in Hebrew.
JAMES GILLINDER, JR., B.S., as Instructor in Chemistry.
FRANZ F. EXNER, A.B., as Instructor in Chemistry.
MORTON G. LLOYD, B.S., PH.D., as Instructor in Physics.
FREDERIC A. PEESO, D.D.S., as Lecturer on Crown-and-Bridge Work.
JOSEPH WALSH, M.D., as Instructor in Clinical Medicine.
CHARLES H. JUDD, M.D., as Assistant Demonstrator of Physiology.
JAMES R. CRAWFORD, M.D., Demonstrator of Physiology.
ARTHUR F. COCA, M.D., as Assistant Demonstrator in Pathology.
ARCHIBALD G. HUBARD, B.S., as Instructor in Civil Engineering.
STEWART McC. MARSHALL, B.S. in E.E., as Instructor in Mechanical Engineering.
HENRY B. EVANS, PH.D., as Instructor in Astronomy.

ARTHUR M. GREENE, JR., B.S. in M.E., as Instructor in Mechanical Engineering.

NATHAN C. SCHAEFFER, PH.D., as Lecturer on the Science and Art of Education.

THOMAS B. HOLLOWAY, M.D., as Assistant Demonstrator of Surgery.

APPOINTMENTS.

GENERAL.

RICHARD COLEGATE DALE, A.M., Trustee.

EDWARD WARLOCH MUMFORD, PH.B., Bursar.

FRANCIS POTTER SIBLEY, Treasurer.

HARRY WALN HARRISON, A.B., Assistant, pro. tem., to the Provost.

IN THE COLLEGE.

A. WILLIAM SCHRAMM, B.S., M.E., Assistant Professor of Electrical Engineering.

WILLIAM EASBY, JR., B.S., C.E., Assistant Professor of Civil Engineering.

WILLIAM N. BATES, PH.D., Assistant Professor of Greek.

CLARENCE G. CHILD, PH.D., L.H.D., Assistant Professor of English.

WALTON B. MCDANIEL, A.M., PH.D., Instructor in Latin.

ELMO G. HARRIS, C.E., Assistant Professor of Civil Engineering.

JOHN CAREW ROLFE, A.M., PH.D., Professor of Latin.

WILLIAM JORDAN, JR., B.S. in C.E., Instructor in Civil Engineering.

LOUIS F. MOODY, M.S., Instructor in Mechanical Engineering.

BURTON S. EASTON, PH.D., Instructor in Mathematics.

BURNETT SMITH, B.S. in Chem., Assistant in Geology and Mineralogy.

FRANK DEWITT FRY, B.A., Assistant in Economics.

JOHN FRANKLIN MEYERS, A.M., Instructor in Physics.

JOSEPH H. HART, PH.D., Instructor in Physics.

GEORGE F. GRACEY, B.S., Instructor in Chemistry.

G. BRYANT LANG, B.S. in Chem., Instructor in Chemistry.

B. MEADE WAGENSELLER, A.M., Assistant in Chemistry.

RALPH E. MYERS, M.S., Assistant in Chemistry.

IN THE DEPARTMENT OF LAW.

FRANCIS H. BOHLEN, A.B., LL.B., Assistant Professor of Law.

OWEN J. ROBERTS, A.B., LL.B., Assistant Professor of Law.

IN THE DEPARTMENT OF MEDICINE.

CHARLES K. MILLS, M.D., Clinical Professor of Nervous Diseases.

WILLIAM G. SPILLER, M.D., Assistant Clinical Professor of Nervous Diseases.

CHARLES W. BURR, M.D., Professor of Mental Diseases.

GEORGE E. DE SCHWEINITZ, M.D., Professor of Ophthalmology.

VELYIEN E. HENDERSON, M.A., M.B., Assistant Demonstrator of Physiology.

CHARLES HARRISON FRAZIER, M.D., to be Acting Dean of the Faculty.

IN THE DEPARTMENT OF DENTISTRY.

CHARLES ROOT TURNER, M.D., D.D.S., Professor of Mechanical Dentistry and Metallurgy.

IN THE LABORATORY OF HYGIENE.

J. EDWIN SWEET, M.D., THOMAS A. SCOTT Fellow in Hygiene.

APPENDIX II.

REPORT OF THE DEAN OF THE COLLEGE FACULTY.

To the Provost of the University;

SIR:—I have the honor to submit my report of the College for the year 1901-02.

REORGANIZATION OF THE COURSES IN ARTS AND SCIENCE, FINANCE AND COMMERCE, AND BIOLOGY.

In my last report was included an outline of the changes in the courses in Arts and Science, Finance and Commerce, and Biology, by which the work in these courses has been made elective to a much larger extent than heretofore, with the possibility open to the student of completing in three years the work required for a degree, or of distributing this work over four or five years. This plan will go into full effect at the opening of the year 1902-03. In the Arts and Science course the degree A.B. will be conferred, as at present, on such students only as have passed the entrance examinations in Latin and Greek, and have pursued these studies during the College course to an extent of not less than three units each.

The fees for the courses affected by the new arrangement of studies have been fixed so that a student will be required to pay the same amount as at present for the instruction represented by his degree, but the annual fees may vary according to the following rule:

Tuition fees are graded according to the amount of work the student does. There are two terms in the year. The charge is five dollars (\$5) a term for each hour a week,

or, in the case of laboratory work, for each two hours a week, but the maximum fee shall not exceed one hundred dollars (\$100) a term. When a student repeats a subject, the regular fee for that subject is charged again. A fee of five dollars (\$5) is charged for every re-examination, after the first, which a student is permitted to take.

The graduation fee is twenty dollars (\$20). The fee for Certificates of Proficiency in special courses is ten dollars (\$10).

Each student on entering College deposits with the Bursar ten dollars (\$10), to cover loss of books, keys, etc., breakage in the laboratories, or damage to University property. Any balance is returned on graduation or withdrawal from College.

CHANGES IN THE FACULTY.

The vacancy in the Department of Latin caused by the death of Professor Jackson has been filled by the appointment of Professor John C. Rolfe, who for some years has held the chair of Latin at the University of Michigan. Professor Rolfe will enter upon his duties at the University in September, 1902.

It was with regret that the resignations of Henry R. Seager, Assistant Professor of Political Economy, and Dana C. Munro, Assistant Professor of History, were received. The former has accepted a professorship at Columbia University, and the latter at the University of Wisconsin. They leave us followed by the best wishes of faculty and students, as does also Mr. Frank E. Perkins, who has decided to enter upon the practice of his profession of Architecture. We are glad to have Professor Perkins continue his connection with the School of Architecture as one of the Staff of Lecturers.

Mr. A. B. Hubbard has resigned his position as Instructor in Civil Engineering, and will be succeeded by Mr. William Jordan, Jr. Mr. S. McC. Marshall has resigned his

position as Instructor in Mechanical Engineering and will be succeeded by Mr. L. F. Moody. During the year Dr. H. B. Evans, Instructor in Astronomy, resigned to accept a position in the United States Naval Observatory, his classes in Mathematics being taught for the remainder of the year by Mr. H. I. Woods. Dr. Burton S. Easton has been appointed Instructor in Mathematics for next year.

During the year Mr. W. L. Webb resigned the Assistant Professorship of Civil Engineering, which he has held for several years, to enter upon the practice of his profession, and was succeeded by Mr. E. G. Harris, who resigned his professorship in the Missouri School of Mines to accept the call to this University. Mr. A. M. Greene, who for six years has held an instructorship in Mechanical Engineering, has resigned to accept a position as professor of Mechanical Engineering in the University of Missouri.

Three members of the Faculty, who have been absent on public business, returned to their University duties during the year. Professor M. G. Brumbaugh, having resigned his position as Commissioner of Education for Porto Rico, returned to his work in Pedagogy, being succeeded in Porto Rico by Assistant Professor S. M. Lindsay, who has been granted leave of absence. Assistant Professor L. S. Rowe returned to his University position on the completion of the task of revising the laws of Porto Rico by the Commission of which he was a member. Assistant Professor E. R. Johnson, who was a member of the Isthmian Canal Commission, returned to his teaching after the Commission had presented its report.

PUBLIC LECTURES IN PHILADELPHIA.

Under the auspices of the Board of Education of Philadelphia, the University inaugurated during the winter a series of public lectures given by members of the Faculty in the public school buildings and other suitable places. The Faculty Committee, of which Assistant Professor Munro

was chairman, were most efficient in carrying out the plan. More than forty lectures were given, illustrated by lantern pictures, and covering a wide range of subjects. There were twenty lecture centres, and the total attendance was over twelve thousand, the average attendance at each lecture being about three hundred. The audiences frequently filled the school-houses to overflowing. The attendance would have been very much larger if the halls could have accommodated more people. The Committee feel that this first course of public lectures, which was entirely experimental, has been successful. They also feel that the success has been due in great measure to the hearty co-operation of the members of the Committee of the Board of Public Education.

PUBLIC LECTURES IN THE COLLEGE CHAPEL.

A course of public lectures in the College Chapel was given as follows:

December 5, 1901. Dr. Horace Howard Furness: "Twelfth Night."

December 12, 1901. Dr. Albert T. Clay: "The Old Testament in the Light of Recent Excavations."

December 19, 1901. Opening of the Free Museum of Science and Art to the Public.

January 9, 1902. Dr. Arthur W. Goodspeed: "Wireless Telegraphy."

January 16, 1902. Opening of the Randal Morgan Laboratory of Physics to the Public.

January 23, 1902. Dr. J. H. Penniman: "Henry David Thoreau."

January 30, 1902. Dr. F. E. Schelling: "The English Miracle Play."

February 6, 1902. Dr. C. G. Child: "King Ælfred."

February 13, 1902. Professor E. P. Cheyney: "Some Peaceful Invaders of England from 1300-1500, A.D."

February 20, 1902. Mr. George Walter Dawson: "The Italian Garden."

February 27, 1902. Mr. Charles Francis Osborne: "A Forecast of American Architecture from Historic Analogy."

March 6, 1902. Opening of the Architectural Department to the Public.

March 13, 1902. Dr. E. G. Conklin: "Mechanism and Vitalism."

March 20, 1902. Dr. T. H. Montgomery, Jr.: "The Embryological Argument for Evolution."

GROWTH OF THE COLLEGE.

The College has been growing steadily, and it is interesting and encouraging to study the figures showing this growth. The possession of handsome and comfortable dormitory accommodations has made the College more attractive than formerly to students from other States. The widening of its influence is clearly shown in the figures for the years 1898 to 1902 inclusive. The total registration in 1898 was 654, which has increased to 817 in 1902, a gain in five years of nearly twenty-five per cent. These figures represent the number of students in the regular College courses, and are exclusive of the special students registered in the Course in Music and in the Saturday Courses for Teachers.

The Freshman class in 1902 was the largest, with one exception, that ever entered the College, numbering 213, of whom almost none were dropped during the year. In 1896 the Freshman class entered with 216 students, of whom 53 were dropped during the year. This was an unusual occurrence, due entirely to the fact that 1896 was the last year in which certificates of private schools were accepted by the College in lieu of entrance examinations, and many boys entered in this way who were insufficiently prepared. In 1899 new and higher entrance requirements went into effect, and the Freshman class was smaller, owing to the fact that many of the best schools lengthened their courses a year in order to meet the advanced requirements. With these excep-

tions, the size of the Freshman class has steadily increased, and the geographical distribution of the class has become wider each year. In 1902 the Freshman class contained students from twenty-five States and four foreign countries, many of them coming from localities from which we had never before drawn students. A table is appended showing the geographical distribution of the students now in College. These number 1019 in all courses, including Music and the Saturday Classes.

STUDENT ORGANIZATIONS.

The activity of the students in their various literary, musical, dramatic, and athletic clubs is commendable, and productive of much good to the University as well as to the students themselves. In addition to the general University organizations, there exist in the College scientific societies made up of the students of the courses in Mechanical Engineering, Civil Engineering, Architecture, Biology, and Chemistry, which are of the highest value to the members and to the College departments with which they are connected. The Cercle Français presented as its annual play Molière's *Fourberies de Scapin*, and there was also delivered under its auspices a series of lectures in French by M. Hugues Leroux, of Paris, and M. Vurpillot, of the Department of French.

GERMAN-AMERICAN FUND.

Herr Heinrich Conried, of the Irving Place Theatre of New York, again manifested his generous interest in the German-American Publication Fund by giving, at his own expense and with his own company, a performance of Goethe's *Iphigenie auf Tauris* at the Garrick Theatre in Philadelphia, under the auspices of the University.

ADDRESSES TO STUDENTS.

During the year, the students were addressed in Chapel by President Remsen, of Johns Hopkins University; President Kingsburg, of the University of Utah; Dr. A. H. Woods (1900 Med.), of the Christian College at Canton, China; Rev. Dr. Alex. MacKenzie, of Cambridge; and the Right Reverend William Crosswell Doane, Bishop of Albany. A series of short addresses on the history of the University was made in Chapel by Vice-Provost Smith, Professor McMaster, Professor Cheyney, Professor Lamberton, and Joseph G. Rosengarten, Esq., of the Board of Trustees, and the Dean. A knowledge of the past history of the University is always interesting and inspiring to the graduate and undergraduate alike, and it is hoped to continue these addresses in the future.

ENDOWMENT OF THE COLLEGE.

The greatest need of the College for some years has been adequate endowment, sufficient not only to cover the large annual deficit, but also to render possible the extension and development of its work along many important lines. The munificent liberality of Dr. Joseph Wharton in increasing to five hundred thousand dollars the endowment of the School of Finance and Commerce that bears his name was announced by the Provost on last Commencement Day, and will provide much needed funds for carrying on that portion of our work. Other departments of the College continue to need the generous gifts of friends of the University.

GIFTS TO THE COLLEGE.

It is a pleasure to record the gifts made to various departments of the College by alumni and other friends.

Mr. Clarence S. Fisher presented valuable books and etchings to the Department of Architecture.

The John Bartram Association very generously gave

its library to the University, thus aiding the Department of Botany, as did also Miss Mary W. Paul and Dr. James Paul by the gift of important foreign botanical journals.

The handsome volume issued by the Department of Architecture as a Biennial Review is a credit to the department and to the University.

The year has been a prosperous one for the College as is shown, so far as figures can show it, by the appended tables of statistics.

Respectfully submitted,

J. H. PENNIMAN,

Dean.

TABLE I.
STUDENTS IN COLLEGE, 1901-1902.

	A., Arts and Science.	Wh., Finance and Economy.	B., Biology.	M., Music.	Sc., Science and Technology.				Ch., Chemistry.	Ch. E., Chemical Engineering.	C. E., Civil Engineering.	M. E. and E. E., Mechanical and Electrical Engineering.	Arch. Architecture.	I. Dec., Interior Decoration.	Totals.		
					Sc., Specific Courses not Decided.	Sc. 1, Chemistry.	Sc. 2, Civil Engineering.	Sc. 3, Mech. and Elect. Eng.									
Post-Seniors															3	Post-Seniors.	
Seniors	46	18	7			3	1	2	10	2	11	7	1		112	Seniors.	
Juniors	43	18	4			2	2	1	8	4	13	16	14		125	Juniors.	
Sophomores	45	25	3						13	3	17	46	16		164	Sophomores.	
Freshmen	73	30	12			7			8	7	23	47	6		213	Freshmen.	
Students in Special Courses.	Third Year ..	2		13							2			2	19	Students in Special Courses.	
	Second Year ..		12	7	9								5	3	36		
	First Year ..		24	10	12								10	3	59		
Partial Students	14	20	13			3			8	6	13	6	1		84	Partial Students.	
Totals	222	149	56	34		17	4	3	3	47	22	81	118	53	8	817	Totals in the College.

Students taking Courses for Teachers..... 202

Total..... 1019

COLLEGE STATISTICS, 1901-1902.

TABLE II.

SHOWING ADMISSIONS TO COLLEGE, 1901.

Average age of students entering Freshman Class in 1900, 18 years, 9 months, 11 days.	
Average age of students entering Freshman Class in 1901, 19 years, 3 months, 14 days.	
Total number of applicants	480
Applicants admitted on examination	149
Applicants admitted on public high school diploma	107
Applicants admitted to advanced standing	28
Applicants admitted to special and partial courses	85
	<hr/>
Applicants rejected on examination	12
Applications postponed and incomplete	26
	<hr/>
Applicants taking preliminaries and receiving credits	68
Applicants taking preliminaries and receiving no credits ...	13
	<hr/>
	81
	<hr/>
	488
Duplications	8
	<hr/>
Total	480

APPLICATIONS CONSIDERED BY COMMITTEE ON ADMISSION TO SPECIAL AND PARTIAL COURSES.

Applications on which Committee took action	95
Total applications approved	85
Total applications rejected	10
	<hr/>
	95

APPLICATIONS CONSIDERED BY COMMITTEE ON ADMISSION TO ADVANCED STANDING.

Applicants who entered College	28
Applicants who did not enter College	11
	<hr/>
	39

APPLICATIONS CONSIDERED BY COMMITTEE ON SCHOOLS AND ENTRANCE REQUIREMENTS.

Total number of cases acted upon	107
Applicants admitted on diploma without examination	60
Applicants admitted on diploma with examination	47
	<hr/>
	107
Admitted from Philadelphia schools	57
Admitted from Pennsylvania schools	23
Admitted from schools in other States	18
Admitted on certificates from other Colleges and from College Entrance Examination Board	9
	<hr/>
	107

ADMITTED WITH CONDITIONS IN :

English B	5	Latin B	3
History B	3	Latin C	11
History C	1	Latin D	10
History D	1	Latin D ¹	2
History subject left open ...	1	Latin E	8
Mathematics C	5	Latin F	11
Mathematics D	1	Latin G	7
Mathematics E	6	French A	8
Mathematics F	10	French B	13
Greek C	2	German A	15
Greek D	2	German B	23
Greek E	2	Physics	4
Latin A	2		

TABLE III.

SHOWING ELECTIONS OF GROUPS MADE BY JUNIORS AND SENIORS IN ARTS AND SCIENCE.

	1901-1902.	
	Juniors.	Seniors.
Greek-Latin	8	4
Latin-French .....	...	1
German-French	3	1
French-English	3	2
History-English	4	3
Philosophy-History	1	5
Economics-History	1	1
Physics-Mathematics	5	2
Mathematics-Astronomy .....	...	2
Economics-Social Science-Law	6	11
Chemistry-Physics	2	1
Biology-Chemistry	4	1
Botany-Zöology-Medicine .....	...	9
Geology (Mineralogy)-Chemistry	3	1
Total	40	44

TABLE IV.
GEOGRAPHICAL DISTRIBUTION OF STUDENTS IN THE COLLEGE, SESSION 1901-1902,
INCLUDING STUDENTS IN MUSIC.

Middle.	South.	West.	New England.	Foreign.
Philadelphia 486	Alabama 1	California 1	Connecticut 3	Canada 2
Pennsylvania 168	Florida 1	Illinois 6	Maine 2	Africa 1
Delaware 9	Georgia 2	Indiana 1	Massachusetts 11	Costa Rica 2
Dist. Columbia 3	Kentucky 4	Iowa 5	New Hampshire 2	Cuba 1
Maryland 6	Louisiana 1	Kansas 2	Rhode Island 2	England 1
New Jersey 37	Virginia 1	Minnesota 1		Ireland 1
New York 22	West Virginia 4	Missouri 3		Japan 1
		Montana 4		West Indies 1
		New Mexico 1		
		Ohio 13		
		Washington 2		
		Wisconsin 3		
731	14	42	20	10
Middle States				
Southern States				
Western States				
New England States				
Foreign				
Total				817

TABLE V.

SHOWING RELATIVE COLLEGE STANDING OF STUDENTS IN THE COLLEGE, YEAR 1901-'02, WHO WERE ADMITTED UPON EXAMINATION *ALONE*, AND STUDENTS ADMITTED *WHOLLY* OR *PARTLY* UPON CERTIFICATES FROM PUBLIC HIGH SCHOOLS.

I. Students Dropped. 1901-1902.

	1st Term.	2d Term.	Total.
Regular Students, Entered by Certificate (wholly or in part) .....	...	9	9
Regular Students Entered by Examination	1	6	7
Regular Students Entered on Advanced Standing	1	...	1
Special and Partial Students	2	7	9
Total Number of College Students Dropped	4	22	26

II. Students Conditioned.

	Total of such Students in College.	Total who were Conditioned.	Number of Conditions.	Conditions per Student Conditioned.
Session 1901-1902.				
Regular Students by Certificates (wholly or in part)	305	113	319	2.8
Regular Students by Examinations	276	113	327	2.9
Regular Students on Advanced Standing	47	19	36	1.9
Specials and Partials	155	63	212	3.3
Total of College	783	308	894	2.9
Music Students	34	....	....	....
Grand Total	817	....	....	....

TABLE VI.
STUDENTS WITHDRAWN AND DECEASED.

	Session 1901-1902.		
	Withdrawn.		Deceased.
	1st Term.	2d Term.	
Post-Seniors.....	...	...	...
Seniors.....	...	1	...
Juniors.....	...	2	...
Sophomores.....	1	3	...
Freshmen.....	2	12	1
Total Regulars.....	3	18	1
Specials, third year.....	...	...	...
Specials, second year.....	1	1	...
Specials, first year.....	6	10	...
Total Specials.....	7	11	...
Partials.....	5	16	...
Grand Total.....	15	45	...

TABLE VII.

SHOWING THE SOURCES FROM WHICH CAME THE STUDENTS REGISTERED IN THE COLLEGE IN 1901-1902.

Prepared by	Located at	Number.
Abington Friends' School	Jenkintown, Penn'a. ..	1
Adelphi College	New York City, N. Y.	1
Allegheny College	Meadville, Penn'a.	2
Allegheny High School	Allegheny, Penn'a.	2
Altoona High School	Altoona, Penn'a.	1
Amherst College	Amherst, Mass.	1
Anabel's (Miss) School	Philada., Penn'a.	1
Arequipa College	Arequipa, Peru	1
Atlantic Collegiate Institute	Elizabeth City, N. C. ..	1
Avalon High School	Avalon, Penn'a.	1
Baltimore City College	Baltimore, Md.	2
Beaver High School	Beaver, Penn'a.	1
Beloit College	Beloit, Wis.	1

Prepared by	Located at	Number.
Beloit College Academy	Beloit, Wis.	1
Bethel Military Academy	Farquier Springs, Va.	1
Birdsboro High School	Birdsboro, Penn'a.	1
Blair Hall	Blairstown, N. J.	1
Blight School	Philada., Penn'a.	17
Bordentown Military Institute	Bordentown, N. J.	2
Brewster Academy	Wolfboro, N. H.	1
Bridgewater Normal School	Bridgewater, Mass.	2
Brockport State Normal School	Brockport, N. Y.	1
Brooklyn Polytechnic Institute	Brooklyn, N. Y.	1
Brown Preparatory School	Philada., Penn'a.	16
Brown University	Providence, R. I.	1
Bucknell Academy	Lewisburg, Penn'a.	1
Bucknell College	Lewisburg, Penn'a.	1
Buchtel College	Akron, Ohio	1
Buffalo Central High School	Buffalo, N. Y.	1
Camden High School	Camden, N. J.	1
Canton High School	Canton, Ohio	1
Carroll's (Prof.) Institute	Reading, Penn'a.	1
Carthage College Prep. School	Carthage, Ill.	1
Cazenovia Seminary	Cazenovia, N. Y.	1
Centenary Collegiate Institute	Hackettstown, N. J.	1
Central High School	Philada., Penn'a.	91
Central Manual Training School	Philada., Penn'a.	53
Cheltenham High School	Ashbourne, Penn'a.	1
Cheltenham Military Academy	Ogontz, Penn'a.	2
Cheltenham Hills School	Wyncote, Penn'a.	1
Chester Academy	Chester, Penn'a.	1
Chester High School	Chester, Penn'a.	7
Chestnut Hill Academy	Chestnut Hill, Philada.	2
College of City of New York	New York City, N. Y.	3
College of San Luis	Carthage, Costa Rica, C. A.	1
Columbia High School	Columbia, Penn'a.	2
Columbia University	New York City, N. Y.	2
Connellsville High School	Connellsville, Penn'a.	1
Conshohocken High School	Conshohocken, Penna.	2
Cooper Memorial College	Sterling, Kansas	2
Danbury High School	Danbury, Conn.	2
Defiance High School	Defiance, Ohio	1
De Lancey School	Philada., Penn'a.	17
Delaware College	Newark, Del.	1
Detroit High School	Detroit, Mich.	1

Report of the Dean of the College Faculty. 53

Prepared by	Located at	Number.
De Witt Clinton High School	New York City, N. Y.	1
Dickinson College	Carlisle, Penn'a.	1
Drexel Institute	Philada., Penn'a.	6
		— 30
Earlham College	Richmond, Ind.	1
Eastburn Academy	Philada., Penn'a.	8
East Division High School	Milwaukee, Wis.	1
Easttown High School	Berwyn, Penn'a.	2
Edward Little High School	Auburn, Maine	1
Elmira Free Academy	Elmira, N. Y.	2
Episcopal Academy	Philada., Penn'a.	23
Erie High School	Erie, Penn'a.	6
		— 44
Farnum Preparatory School	Beverly, N. J.	1
Fort Wayne High School	Fort Wayne, Ind.	1
Franklin High School	Franklin, Penn'a.	2
Franklin and Marshall College	Lancaster, Penn'a.	3
Friends' Central School	Philada., Penn'a.	17
Friends' Select School	Germantown, Philada.	6
Friends' Select School	Philada., Penn'a.	7
Friends' Select School	Washington, D. C.	1
Friends' Select School	Wilmington, Del.	1
		— 39
Georgia Normal and Industrial College	Milledgeville, Ga.	1
Germantown Academy	Germantown, Philada.	22
Gettysburg College	Gettysburg, Penn'a.	1
Girls' High School	Philada., Penn'a.	18
		— 42
Habel's Academy	Philada., Penn'a.	1
Haddonfield High School	Haddonfield, N. J.	1
Hamburg High School	Hamburg, Penn'a.	1
Hamilton School	Philada., Penn'a.	5
Harrisburg High School	Harrisburg, Penn'a.	1
Haverford College	Haverford, Penn'a.	1
Haverford College Grammar School	Haverford, Penn'a.	6
Hazelton High School	Hazelton, Penn'a.	1
Hillhouse High School	New Haven, Conn.	1
Hyde Park High School	Hyde Park, Mass.	1
		— 19
Illinois College	Jacksonville, Ill.	1
Imperial Higher Grade	Tokyo, Japan	1
Institute Mont Raint	Switzerland	1
		— 3
Jackson High School	Jackson, Ohio	1
Jamestown High School	Jamestown, N. Y.	1

Prepared by	Located at	Number.
Johns Hopkins University	Baltimore, Md.	1
Joliet Township High School	Joliet, Ill.	1
Joplin High School	Joplin, Mo.	1
		— 5
Keene High School	Keene, N. H.	1
Kittanning High School	Kittanning, Penn'a.	1
Koesen Neuwied	Germany	1
		— 3
Lafayette College	Easton, Penn'a.	1
Lancaster High School	Lancaster, Penn'a.	1
La Salle College	Philada., Penn'a.	2
Lawrenceville School	Lawrenceville, N. J.	2
Leal's School for Boys	Plainfield, N. J.	1
Lehigh Preparatory School	S. Bethlehem, Penn'a.	2
Lehigh University	S. Bethlehem, Penn'a.	3
Liceo de Costa Rica	Costa Rica, C. A.	1
Linsley Institute	Wheeling, W. Va.	1
Lockport High School	Lockport, N. Y.	5
Louisville High School	Louisville, Ky.	1
Lowell High School	San Francisco, Cal.	1
Lower Merion High School	Ardmore, Penn'a.	1
Lumberton Public School	Lumberton, N. J.	1
		— 23
Manor School	Stamford, Conn.	1
Mansfield High School	Mansfield, Ohio	1
Massachusetts Institute of Technology	Boston, Mass.	1
Mauch Chunk High School	Mauch Chunk, Penn'a.	1
Media Academy	Media, Penn'a.	2
Media High School	Media, Penn'a.	2
Middleboro High School	Middleboro, Mass.	1
Millersville State Normal School	Millersville, Penn'a.	1
Milwaukee High School	Milwaukee, Wis.	2
Moravian Parochial School	Bethlehem, Penn'a.	1
Mt. Hermon School	Mt. Hermon, Mass.	1
Mt. Holly Academy	Mt. Holly, N. J.	1
Mt. Holyoke Seminary	Mt. Holyoke, Mass.	1
Mt. St. Mary's College	Emmitsburg, Md.	1
Mt. Vernon High School	Mt. Vernon, N. Y.	1
Mt. Vernon High School	Mt. Vernon, Ohio	2
		— 20
National Preparatory School	Mexico City, Mexico.	1
Newark High School	Newark, N. J.	2
New Jersey State Normal School	Trenton, N. J.	2
Norfolk Academy	Norfolk, Va.	1
Norristown High School	Norristown, Penn'a.	11

Report of the Dean of the College Faculty. 55

Prepared by	Located at	Number.
Northeast Manual Training School . . .	Philada., Penn'a.	50
Norwich High School	Norwich, N. Y.	1
		— 68
Ohio Wesleyan University	Delaware, Ohio	1
Ontario High School	Ontario, Canada	1
Orange High School	Orange, N. J.	1
Ottumwa High School	Ottumwa, Iowa	2
		— 5
Pennsylvania Military College	Chester, Penn'a.	3
Pennsylvania State College	State College, Penn'a.	3
Philadelphia College of Pharmacy	Philada., Penn'a.	3
Philadelphia Normal School	Philada., Penn'a.	6
Philadelphia School of Design	Philada., Penn'a.	1
Phillips Academy	Andover, Mass.	1
Phillips Exeter Academy	Exeter, N. H.	1
Phoenixville High School	Phoenixville, Penn'a.	2
Pine Grove High School	Pine Grove, Penn'a.	1
Pittsburg Academy	Pittsburg, Penn'a.	2
Pittsburg Central High School	Pittsburg, Penn'a.	3
Pottsville High School	Pottsville, Penn'a.	2
		— 28
Radnor High School	Wayne, Penn'a.	3
Rayen High School	Youngstown, Ohio	1
Reading Boys' High School	Reading, Penn'a.	7
Rhode Island School of Design	Providence, R. I.	1
Rittenhouse Academy	Philada., Penn'a.	1
Roman Catholic High School	Philada., Penn'a.	1
Rose Polytechnic Institute	Terre Haute, Ind.	1
Rugby Lower School	Rugby, England	1
		— 16
St. George's Hall	Summit, N. J.	2
St. John's College	Fordham, New York City, N. Y.	1
St. John's School	Manlius, N. Y.	1
St. Joseph's College	Philada., Penn'a.	4
St. Louis High School	St. Louis, Mo.	1
St. Luke's School	Bustleton, Penn'a.	1
St. Mark's School	Southboro, Mass.	1
St. Paul's School	Concord, N. H.	7
St. Stephen's College	New York City, N. Y.	2
Sandy Hill High School	Sandy Hill, N. Y.	2
Sandymount Academical Institution	Dublin, Ireland	1
Scranton High School	Scranton, Penn'a.	2
Sellersville High School	Sellersville, Penn'a.	1
Shadyside Academy	Pittsburg, Penn'a.	2
Shamokin High School	Shamokin, Penn'a.	1
Siglar Preparatory School	Newburg, N. Y.	1

Prepared by	Located at	Number.
Skowhegan High School	Skowhegan, Maine ...	I
Southside Academy	Chicago, Ill.	I
Spokane High School	Spokane, Wash.	I
Steele High School	Dayton, Ohio	I
Sunbury High School	Sunbury, Penn'a.	I
Stroudsburg Normal School	Stroudsburg, Penn'a. ...	I
Swarthmore College	Swarthmore, Penn'a. ...	2
Swarthmore Preparatory School	Swarthmore, Penn'a. ...	I
		— 39
Tacoma High School	Tacoma, Wash.	I
Temple College	Philada., Penn'a.	5
Thatcher Institute	Shreveport, La.	I
Toledo High School	Toledo, Ohio	2
Toronto School of Science	Toronto, Canada	I
Trinity College	Hartford, Conn.	I
Tyrone High School	Tyrone, Penn'a.	2
		— 13
United States Naval Prep. School	Annapolis, Md.	I
University of Chicago	Chicago, Ill.	I
University of Cincinnati	Cincinnati, Ohio	I
University of Pennsylvania	Philada., Penn'a.	I
University School	New Orleans, La.	I
		— 5
Vanderbilt University	Nashville, Tenn.	2
Virginia Normal and Collegiate Insti- tute	Petersburg, Va.	I
		— 3
Walnut Hill High School	Walnut Hill, Ohio ...	I
Washington and Jefferson College	Washington, Penn'a. ...	2
West Chester High School	West Chester, Penn'a. ...	I
West Chester State Normal School	West Chester, Penn'a. ...	3
West Des Moines High School	Des Moines, Iowa	2
Western High School	Washington, D. C.	I
Western University of Pennsylvania	Allegheny, Penn'a.	I
West Jersey Academy	Bridgeton, N. J.	I
Westtown Boarding School	Westtown, Penn'a.	I
Wilkes-Barre High School	Wilkes-Barre, Penn'a. ...	I
William Penn Charter School	Philada., Penn'a.	7I
Williamsport Dickinson Seminary	Williamsport, Penn'a. ...	I
Williston Seminary	Easthampton, Mass. ...	I
Wilmington High School	Wilmington, Del.	3
Woodstown High School	Woodstown, N. J.	I
Worcester Academy	Worcester, Mass.	I
Worcester Classical High School	Worcester, Mass.	4
Worcester English High School	Worcester, Mass.	I
Worcester Polytechnic Institute	Worcester, Penn'a. ...	I
Wyoming Seminary	Kingston, Penn'a.	I
		— 99

Report of the Dean of the College Faculty. 57

Prepared by	Located at	Number.
Yale University	New Haven, Conn.	1
Yeates Institute	Lancaster, Penn'a.	3
York Collegiate Institute	York, Penn'a.	1
York County Academy	York, Penn'a.	2
York High School	York, Penn'a.	1
		— 8
Privately prepared		3
Tutors		26
		— 29
		—
		783

SUMMARY.

	Number of Institutions.	Number of Students.
Colleges and Universities.....	35	57
High and Other Public Schools :		
Pennsylvania	43	299
New York	10	18
New Jersey	8	10
Delaware	1	3
Maryland	1	2
Western States	22	26
New England States	10	15
Southern States	4	4
	— 99	— 377
Private Preparatory Schools :		
Pennsylvania	39	254
New York	3	3
New Jersey	7	9
Delaware	1	1
Maryland	1	1
Western States	3	3
New England States	10	16
Southern States	7	7
	— 71	— 294
Foreign Schools, Institutions, etc.	9	9
Foreign Colleges and Technical Schools	2	2
American Technical Schools and Institutes ...	8	15
	— 224	— 754
Privately Prepared		3
Tutors		26
Total		— 783

TABLE VIII.
SCHOLARSHIPS.

	Arts.	Finance and Economy.	Science.	Mechanical Engineering.	Civil Engineering.	Chemistry.	Biology.	Architecture.	Chemical Engineering.	Grand Total.
<i>Full Faculty Scholarships.</i>										
Post-Senior.....			1							1
Seniors.....	4	1	1		2	3		2		13
Juniors.....	7	1		1	2		1	1		14
Sophomores.....	6	2		6	2	2		1		16
Freshmen.....	8	2	1	5	1			2	2	22
Partials.....		2				1				3
Second-Year Special.....		1								1
Total.....										73
<i>Partial Faculty Scholarships.</i>										
Junior.....	1									1
Sophomore.....						1				1
Freshmen.....	1			2						3
Total.....										5
<i>Muhr Scholarships.</i>										
Senior.....	1									1
Partial.....							1			1
Total.....										2
<i>Penn Scholarships.</i>										
Junior.....	1									1
Freshman.....					1					1
Total.....										2
<i>Free City Scholarships.</i>										
Seniors.....	2	1								3
Juniors.....	3			3	2	2	1	1	1	13
Sophomores.....		2		2	1	1		1		7
Freshmen.....	2			2	1		3			8
Partial.....							1			1
Total.....										32
<i>Pay City Scholarships.</i>										
Seniors.....	1	3		1	4	1	2		1	13
Juniors.....	1			3	3	2	2			11
Sophomores.....	1	3		5	3	1		1		14
Freshmen.....	4			3	3	1	8			19
Partials.....	1						4			5
First-Year Special.....							1			1
Total.....										63
<i>Baird Scholarship.</i>										
Junior.....				1						
Total.....										1
<i>Stewart Scholarship.</i>										
Junior.....								1		
Total.....										1
<i>Stephen Greene Scholarship.</i>										
Freshman.....	1									1
Totals.....	45	18	3	34	25	17	24	10	4	180

APPENDIX III.

REPORT OF THE DEAN OF THE FACULTY OF PHILOSOPHY.

To the Provost of the University;

SIR:—I have the honor of presenting to you my report upon the progress of our work during the year ending August 31, 1902, as follows:

THE FACULTY AND ITS COMMITTEES.

The Executive Committee appointed to serve from September 1, 1901, to August 31, 1902, was as follows:

Edgar F. Smith, Vice-Provost, *ex-officio*,
William A. Lamberton,
Charles L. Doolittle,
Simon N. Patten,
Edward P. Cheyney,
Edwin G. Conklin,
William Romaine Newbold, Dean, *ex-officio*.

Assistant Professor A. W. Goodspeed has represented this Faculty upon the University Athletic Committee and Professor E. P. Cheyney upon the University Committee on Non-Athletic Organizations.

The Committee on Discipline has consisted of the Dean, Professors Crawley and Conklin.

Professor Hilprecht was absent throughout the year in the service of the University. His work has been carried on by Dr. Clay. Professor Hilprecht has been granted permission to absent himself from the University during the three years beginning with September 1, 1902, as much as

may in his judgment be demanded by the interests of the University in the Orient.

Professor Brumbaugh, who was appointed in June, 1900, Commissioner of Education for the Island of Porto Rico, and has been absent from the University since the beginning of the academic year 1900-01, resigned his post February 1, 1902, and returned to the University. During his absence the graduate work in Pedagogy was given by the Hon. Nathan C. Schaeffer, State Superintendent of Public Instruction. Dr. Schaeffer continued to give the work with great satisfaction to his students and to the University until Professor Brumbaugh's return.

Assistant Professor Lindsay has been appointed by the President of the United States to the position vacated by Professor Brumbaugh's resignation, and left the University to assume his new duties on the first of February. Through the courtesy of President Butler and the Board of Trustees of Columbia University we have been enabled to arrange for a two-hour course of lectures in Sociology by Professor Franklin H. Giddings for the second term of the past year.

Assistant Professor Emory R. Johnson, who has been absent for two years as a member of the Isthmian Canal Commission, resumed his graduate work at the opening of the year; and Assistant Professor Rowe, who had been absent since the beginning of the year 1901-02 as a member of the Commission for the Codification of the Laws of the Island of Porto Rico, resumed his University work February 1, 1902.

Associate Professor Gudeman has been absent on leave during the past year. The graduate work in Latin has been given temporarily by Professor Edgar S. Shumway, Lecturer on Roman Law in the Department of Law, and by Dr. W. B. McDaniel, Instructor in Latin in the College. Professor John C. Rolfe, of the University of Michigan, has been appointed to a professorship in Latin. We feel that the Uni-

versity is fortunate in securing the services of so able and distinguished a scholar.

We have lost by resignation Assistant Professor Dana C. Munro, who has been elected to the Professorship of European History at the University of Wisconsin. Professor Munro carries with him the cordial good wishes and sincere regards of his many friends at Pennsylvania.

Four of the instructors in the College have been authorized to give graduate instruction,—Walton B. McDaniel, Ph.D., in Latin; John P. Goode, Ph.D., in Economics; Frederick A. Cleveland, Ph.D., in Finance; and William E. Lingelbach, Ph.D., in European History.

EQUIPMENT.

The income of the Harrison Fellowship Funds has been, as heretofore, expended chiefly in the increase of the Library. For the details of other material additions to our equipment I beg to refer to the reports of the Dean of the College and of the Librarian.

FELLOWSHIPS.

The five Senior Fellowships upon the George Leib Harrison Foundation have all been filled.

Burton Scott Easton, Ph.D., Senior Fellow in Mathematics, has completed an extensive monograph upon the subject which he chose for his thesis,—namely, “Substitutions and Substitution Groups.” The work has involved the examination of the entire literature of the subject, comprising over four hundred treatises and memoirs. His monograph consists of a digest of the principal topics, with full references and an exhaustive bibliography. The manuscript has been accepted by the University Publication Committee, and will shortly be issued as one of the University series. Mr. Easton proposes to continue work upon the same subject.

Claude Halstead Van Tyne, Ph.D., has completed the

editing of the unpublished letters of Daniel Webster, discovered by him, to which I referred on page 83 of my last report, and he has also completed a "History of the Loyalists." Both these works will shortly appear.

Nicholas Panagis Vlachos, Ph.D., Senior Fellow in Classics, has given a graduate and an undergraduate course of lectures, on Æschylus (one hour), and on Sophocles (two hours, first term) and Aristophanes (two hours, second term); and has continued his work upon the religion of Sophocles, with results of considerable interest.

Henry Shoemaker Conard, Ph.D., Senior Fellow in Botany, was engaged during the year in further research on Water-Lilies. He has completed his monograph on those plants; as well as a study of "Mosses and Ferns" in considerable detail. He has also assisted Dr. Macfarlane with the laboratory work in Botany. In the course of the year he has published three papers: (1) An Article on "Victoria" in Bailey's "Cyclopedia of American Horticulture;" (2) "A New Tender *Nymphæa*" (*Nymphæa Pennsylvania*, hybr.) in *American Gardening*, November 2, 1901; (3) "Note on the Embryo of *Nymphæa*," in *Science*, February 16, 1902.

Glenn Levin Swiggett, Ph.D., Senior Fellow in Romanics, after spending the summer of 1901 working in the libraries of Berlin and Dresden, continued throughout the following year his work upon the subject of his thesis, the influence of Spanish Literature upon German. The results of his work were in part incorporated into a course of lectures to graduate students, and will ultimately appear in a monograph.

Hermann Ranke, Ph.D., who was appointed to the Research Fellowship in Assyriology, had expected to reach the University by February 1, 1902. Owing to the absence of Professor Hilprecht, however, it was thought best to defer Dr. Ranke's arrival until October 1, 1902.

Four of our former graduates have held Honorary Fellowships during the past year.

A. S. W. Rosenbach, Ph.D., Honorary Fellow in English, has brought his thesis into shape for publication, having made to it certain additions which will be explicitly indicated in the preface. He has also prepared an article for "Modern Language Notes," introduced by the editor. He has continued his work on the bibliography of English Literature, in collaboration with Mr. J. L. Haney, and has in press a *fac-simile* reprint of Dr. Johnson's "Prologue spoken at the Opening of the Drury Lane Theatre," edited by Mr. Rosenbach in collaboration with Mr. Austin Dobson from the only known copy. This copy is owned by Mr. Rosenbach. Mr. Rosenbach has been reappointed to his Honorary Fellowship.

John L. Haney, Ph.D., Honorary Fellow in English, has published a brief note in "Modern Language Notes," November, 1901; has written a paper on "German Literary Influence before 1790," which will be published in "Americana Germanica," and has prepared a "Bibliography of S. T. Coleridge," which will shortly be published. He has also been engaged upon an edition of the early reviews of famous authors, 1750 to 1890.

Morris W. Croll, Ph.D., has continued as Honorary Fellow in English his work upon the subject of his thesis. He has written a biography of Sir Fulke Greville, and will probably publish it as an additional chapter accompanying the thesis.

George F. Stradling, Ph.D., Honorary Fellow in Physics, has studied the effects of light in the production of magnetism and upon the modifications in the magnetization of certain metals produced by mechanical vibration. This work he will continue next year.

Of the nineteen Harrison Fellowships, seventeen have been filled. Of these the five fellowships-at-large have been

assigned as follows: European History, Germanics, Chemistry, Sociology, and Philosophy.

Of the eight Harrison Scholarships, seven were awarded.

Of the thirty University Scholarships, twenty-nine were awarded.

I have appended to this report an alphabetical list of holders of Fellowships and Senior Fellowships upon the Harrison Foundation from their creation in October, 1896, to June, 1902. An examination of this list shows that of the seventy-four individuals who have held Fellowships upon this Foundation, thirty-six are now engaged in teaching in colleges or universities; ten are engaged either in teaching or in administrative work in connection with public and private schools; five are engaged in work for which their special training has fitted them, notably as officers of charitable societies or as experts under the direction of the United States government. Two are in business; three have entered the ministry; thirteen have not yet taken their doctor's degrees, of which number two are included in the list of those teaching in colleges and universities. Of three the occupation is not reported; four died. The men who are teaching in colleges and universities are distributed as follows: Nine are in this University, four of them holding Senior Fellowships and five holding instructorships; two are at Leland Stanford, Jr.; two each in the Universities of Indiana, Iowa, and Maine; one each in Clark University, Northwestern University, and Lehigh University, and in the Universities of Texas, Cincinnati, Wisconsin, Columbia, Ohio, Chicago, and Missouri; one each in the following colleges; Temple College, College of the City of New York, Trinity College (Durham, N. C.), Trinity College (Hartford, Conn.), Ursinus College, Oberlin College, Government College (Shantung Province, China), Dartmouth College, and Morningside College (Iowa).

This record goes to show that well-trained men of a

superior order of ability have no difficulty in finding suitable occupation, and tends fully to justify the decision reached by you six years ago to devote a large part of the income of the Harrison Foundation to the establishment of Fellowships and Scholarships, in order to give these men of superior ability the training necessary to fit them for careers of usefulness.

REGISTRATION.

The total number of students registered was 191. The number of Senior and Honorary Fellows was the same as the preceding year, 9; the number of regular students was 164 as against 142 for the preceding year, a gain of 22. Of the 164, 86 should come under the head of new students; that is to say, students who were not registered the preceding year. This represents a surprising reversal of what one would naturally expect. The number of new students for the year 1900-1901 was only 55. The figures for this year, therefore, represent a gain of 30, very nearly fifty per cent. of the total number of new students for the preceding year. On the other hand, the old students were but 78 as against 87 for the preceding year, a loss of 9. Yet no less than 18 students, having completed all the resident and lecture work required of them, have been carried on the rolls as absent on leave during the year while at work upon the thesis, and are included in the total number of 78. Under our former regulations these students would probably have left the institution, either taking a degree or going elsewhere, and one would expect from their continuance on the rolls that the total number of old students would be greater than in preceding years. The number of auditors has fallen from 25 to 18. Only four new auditors were registered in the course of the year. The subjoined table will give the registration figures for 1901-02, the corresponding figures for 1900-01 and 1899-1900 being annexed in brackets:

	New Students.			Old Students.			Total.		
	1901-02	'00-01	'99-00	'01-02	'00-01	'99-00	'01-02	'00-01	'99-00
Senior, University and									
Hon. Fellows.....	1	[1,	1]	8	[8,	5]	9	[9,	6]
Regular Students.....	86	[55,	72]	78	[87,	66]	164	[142,	138]
Auditors.....	4	[8,	19]	14	[17,	12]	18	[25,	31]
	<u>91</u>	[64,	92]	<u>100</u>	[112,	83]	<u>191</u>	[176,	175]

The following figures will show the number of women in the Department for the last seven academic years:

	'95-6	'96-7	'97-8	'98-9	'99-1900	1900-01	1901-02
Fellows and other							
Regular Students...	13	13	18	21	32	27	31
Auditors.....	17	14	18	11	12	9	4
	<u>30</u>	<u>27</u>	<u>36</u>	<u>32</u>	<u>44</u>	<u>36</u>	<u>35</u>

The percentage of women in the Department is shown in the following table:

	'95-6	'96-7	'97-8	'98-9	'99-1900	1900-01	1901-02
Of the Fellows and other Regular Students.....	12	12	14	16	23	18	18
Of the Auditors.....	28	17½	30	46	33	36	22
Of the total number of Students.....	18	15	22½	20	25	20	18½

INSTITUTIONS REPRESENTED.

	A.B.	B.S.	Other Non-Technical Degrees.	Technical Bacca-laureate Degrees.	M.A. and M.S.	Ph.D.	Degrees in Theology.
Allegheny.....	2	..	.....	.....	..	..	.....
Alma.....	..	..	Ph.B. 1	.....	..	..	.....
Amherst.....	1	..	.....	.....	..	..	.....
Augustana.....	1	..	.....	.....	..	..	.....
Boston Univ.....	..	1	.....	.....	..	..	S.T.B. 1
Bowdoin.....	1	..	.....	.....	1	..	.....
Brown.....	1	..	.....	.....	..	..	.....
Bryn Mawr.....	3	..	.....	.....	..	..	.....
Buchtel.....	..	1	.....	.....	..	..	.....
Bucknell.....	2	..	Ph.B. 1	.....	1	..	.....
Univ. of California..	..	..	Ph.B. 1	.....	..	..	.....
Calvin.....	1	..	.....	.....	..	..	.....
Carleton.....	1	..	.....	.....	..	..	.....
Cedarville.....	1	..	.....	.....	..	..	.....
Univ. of Chicago....	2	..	.....	.....	..	..	.....
Colby.....	1	..	.....	.....	..	..	.....
Univ. of Colorado...	..	1	.....	.....	1	..	.....
Columbia.....	1	..	.....	.....	1	..	.....
Columbian.....	..	1	.....	.....	..	..	.....
Cornell Univ.....	..	..	Ph.B. 4 M.E. 1	.....	..	..	.....
Dartmouth.....	1	..	.....	.....	..	..	.....
Denison.....	1	..	.....	.....	..	..	.....
Univ. of Denver.....	1	..	.....	.....	..	..	.....
Dickinson.....	2	..	.....	.....	..	..	.....
Drew Theol. Semin'y	..	..	.....	.....	..	..	B.D. 1
Earlham.....	..	..	Ph.B. 1	.....	..	..	.....
Franklin.....	1	..	.....	.....	..	..	.....
FranklinandMarshall	2	..	.....	.....	1	..	.....
Geneva.....	1	..	.....	.....	..	..	.....
Harvard.....	1	..	.....	.....	2	..	.....
Haverford.....	5	1	.....	.....	3	..	.....
Hiram.....	1	..	.....	.....	..	..	.....
Univ. of Indiana....	4	..	.....	.....	2	..	.....
Univ. of Iowa.....	2	..	Ph.B. 1	.....	1	..	.....
Johns Hopkins.....	2	..	.....	.....	..	..	.....
Univ. of Kentucky..	1	..	.....	.....	..	..	.....
Kenyon.....	..	..	Ph.B. 1	.....	..	..	.....
Lafayette.....	2	..	Ph.B. 2	.....	1	..	.....
Lebanon Valley.....	1	..	.....	.....	..	..	.....
Lehigh.....	..	1	.....	.....	..	..	.....
Leland Stanford, Jr..	2	..	.....	.....	..	..	.....
Univ. of Maine.....	..	1	.....	.....	M.S.	..	.....
Mass. Agricultural...	..	..	.....	.....	M.S.	..	.....
Univ. of Michigan...	1	..	.....	.....	..	..	.....
Univ. of Missouri....	..	1	.....	.....	1	..	.....
Muhlenberg.....	1	..	.....	.....	..	..	.....
New York Univ.....	..	..	Ph.B. 1	.....	1	..	.....
Northwestern.....	1	..	.....	.....	..	..	.....
Oberlin.....	3	..	.....	.....	1	..	.....

	A.B.	B.S.	Other Non-Technical Degrees.	Technical Baccalaureate Degrees.	M.A. and M.S.	Ph.D.	Degrees in Theology.
Ohio Wesleyan.....	..	I	B.L. I	....	2	..	....
Penna. College.....	I	..	....	....	..	..	....
Univ. of Pennsylvania	20	25	Ph.B. I	B.S. in Biol. 3 B.S. in Chem. 3 B.S. in Econ. I LL.B. 3 M.E. I	M.A. 4 M.S. I	10	....
Princeton.....	3	..	....	....	I	..	....
P. E. Theol. Seminary	..	..	....	....	..	..	B. D. I
Radcliffe.....	2	..	....	....	..	..	....
Univ. of Rochester..	..	..	Ph.B. I	....	..	..	....
St. Andrews.....	..	..	L.L.A. I	....	..	..	....
Simpson.....	..	..	Ph.B. I	....	..	..	....
Smith.....	I	..	....	....	..	..	....
Stevens Institute....	..	..	....	M.E. I	..	..	....
Susquehanna.....	I	..	....	....	..	..	....
Swarthmore.....	I	2	B.L. 4 M.L. 2	....	I	..	....
Syracuse Univ.....	2	..	Ph.B. I	....	I	..	....
Temple.....	I	..	....	....	..	..	....
Univ. of Toronto....	2	..	....	....	..	..	....
Tufts.....	I	..	....	....	I	..	....
Ursinus.....	I	..	....	....	..	..	....
Vassar.....	2	..	....	....	..	..	....
Washington Univ....	..	..	....	B.S. in Chem. I	..	..	....
Wellesley.....	I	I	....	....	..	..	....
Wells.....	I	..	....	....	..	..	....
Wilson.....	I	..	....	....	..	..	....
Sem. of Wis. Synod	..	..	....	....	..	..	B. D. I
Univ. of Wisconsin..	..	..	B.L. I	....	..	..	....
The Woman's College of Baltimore..	I	..	....	....	..	..	....
Yale.....	3	..	....	....	..	I	....

Total number of degrees.....	223
Admitted to baccalaureate standing by special action:	
Graduate of Gymnasium of Aachen.....	I
Repeated.....	224
	51
	173

ELECTION OF STUDIES.

The table of elections shows that nearly all our departments are not only maintaining the number of students attracted in previous years, but that in most there is a substantial increase. Particularly gratifying are the figures for the departments of English Literature, Philosophy, and Chemistry. English Literature shows a steady growth from three majors in 1894-95 to eighteen majors in the year just completed. In Philosophy there were in 1894-95 sixteen majors. This disproportionately large number of majors in Philosophy was due to the presence of a body of public school teachers, many of whom elected Philosophy. In 1898-99 the number of majors in Philosophy had fallen to four. Within the past three years it has increased from four to fourteen. The growth in Chemistry also still continues. In 1894-95 there were eleven majors in Chemistry; last year there were twenty. The number of majors in Greek has doubled,—from four to eight. That in American History has very nearly doubled,—from seven to twelve.

STUDIES ELECTED BY REGULAR STUDENTS.

Min., abbreviation for Minor. Maj., abbreviation for Major.

	'94-95	'95-96	'96-97	'97-98	'98-99	'99-00	'00-01	'01-02	'94-95	'95-96	'96-97	'97-98	'98-99	'99-00	'00-01	'01-02
	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Maj.	Maj.	Maj.	Maj.	Maj.	Maj.	Maj.	Maj.
Comparative Philology and Sanskrit	2	3	3	4	5	4	4	3	1							
Greek	6	7	7	6	6	5	10	6	2	1	2	4	5	5	4	2
Latin	2	2	2	4	4	4	6	8	1	2	3	3	7	5	5	3
Romanic	2	3	2	6	8	6	6	8		2	3	3	2	4	4	4
Germanic	1	2	1	1	4	5	7	11		1	1		5	8	11	10
English Philology	6	7	6	7	11	10	15	15	1	1			1	1		3
English Literature	6	7	10	11	5	3	6	3	3	5	4	7	13	14	17	18
Assyrian	2	3	1	1	1	2	2	3	3	4	4	8	1		3	5
Hebrew	7	7	6	6	2		7	5	7	2	3	2	2	4	5	6
Syriac	2					1										
Arabic	3	2	2	1	2		2	2						1		
Philosophy	31	29	26	15	14	8	13	15	16	14	9	8	4	5	7	14
Psychology	7	8	10	8	2	4	8	12	6	7	2	3	6	4	3	5
Ethics	9	8	9	5	4	4	4	8	1	3	4	1				
Pedagogy	12	15	7	8	9	2	5	5	13	11	11	4	8	8	7	12
American History	3	6	11	6	9	8	13	12	7	8	4	6	9	7	5	5
American Constitutional History		2	3	3	1	1		1		1	2	1	1	1		
European History	9	12	8	11	12	7	3	6	5	6	1	5	4	6	8	
Political Science	7	9	7	4	4	5	5	6	4	6	4	2	1	2	4	5
Economics	27	24	14	9	6	7	11	10	3	4	6	5	7	5	9	6
Statistics		4	2	3	2	1	1									
Mathematics	4	2	2	8	7	8	10	5	5	4	4	3	6	6	9	6
Astronomy		1	4		1	4	4	3				3	4	3	6	1
Physics	6	6	3	6	2	1	7	5	1		1	2	2	2	4	4
Chemistry	2	2	3	5	5	3	2	2	11	12	13	10	4	5	1	5
Geology	11	0	11	10	5	3	3							1	2	1
Mineralogy	8	17	7	7	5	3	4	5		1	1	1	1	1	1	1
Botany	3	2	1	4	5	5	8	8	3	1	2	1	3	3	3	4
Zoölogy	7	4	3	4	6	5	8	4	4	3	3	6	9	8	8	7
Italian and Spanish			2		1	2	3	2								
Old Norse			1		2	1	1	3								
Medieval History				1		1	1				2	1				
English History				1	2	1	6	1			1					
Organic Chemistry				7	7	12	12	14				2	2			1
Inorganic Chemistry				4	2	1		2				5	6	10	11	12
Analytical Chemistry				3	3	1	5	7								
Comparative Anatomy of the Vertebrates				1	1		1									
Electro-Chemistry				1	1	5	1	3			1					2
Sociology					4	5	8	7			1	3	7	5	6	
Classical Archaeology						1	1	1								
Physiography						1	1									
Minors not yet elected.			8	8	70	92	68	113								
	185	194	182	188	240	242	284	328	97	98	91	94	120	122	142	164

DEGREES.

At the Commencement held on June 18, 1902, degrees were granted as follows: (In connection with each student's name will be found his subjects, and his address for the year 1902-03. In case of candidates for the Ph.D. degree, the major comes first, and the title of the thesis is also given.)

MASTER OF ARTS.

Louis Bartleson Ambler: American History and Pedagogy.
Resumes graduate work.

Charles Lindsay Burroughs: European and American History, Political Science.

Will spend the year 1902-03 in Europe.

Sarah McCune Gallaher: American and European History, Pedagogy.

Principal of the Mountain Seminary, Birmingham, Pa.

Alexander Grant: European History, English Literature.
St. Mary's, Ontario, Canada.

Arthur Dougherty Rees: Economics, Political Science, Philosophy.

4116 Baltimore Avenue, Philadelphia.

Charles Fischer Sladen: Germanic Languages, Spanish, Philosophy.

Resumes graduate work.

Benjamin Meade Wagenseller: Chemistry.

Assistant in Chemistry, University of Pennsylvania.

Mabel L. Walton: Germanic Languages.

2019 Arch Street, Philadelphia.

DOCTOR OF PHILOSOPHY.

Leonard Anderson Blue, Ph.B. (Cornell College, 1892):
Political Science, Economics, Sociology.

Thesis: *The Relation of the Governor to the Organization of Executive Power in the States.*

Morningside College, Sioux City, Iowa.

Samuel Paul Capen, A.B., A.M. (Tuft's College, 1898):
Germanic Literature, Germanic Philology, French.

Thesis: *Friedrich Schlegel's Connection with Reichardt and his Contributions to "Deutschland."*

Instructor in Modern Languages, Collegiate Department, Clark University, Worcester, Mass.

Maude Bingham Hansche, Ph.B. (University of California, 1896): English Literature, American History, Germanics.

Thesis: *The Formative Period of English Familiar Letter Writers and their Contribution to the English Essay.*

Instructor in German, Girls' Commercial High School, Philadelphia.

Frank Edward Horack, Ph.B., A.M. (State University of Iowa, 1897, 1899): Political Science, Economics, Sociology.

Thesis: *The Organization and Control of Industrial Corporations.*

Instructor in Political Science, State University of Iowa, Iowa City, Iowa.

George Daniel Luetscher, B.L. (Wisconsin, 1898): American History, European History, Economics.

Thesis: *The American Voter (1788-1840).*

The George School, Pennsylvania.

Alfred Lewis Kammerer, B.S. in Chemistry (Washington University, 1900): Inorganic Chemistry, Organic Chemistry, Electro-Chemistry.

Thesis: *Electrolysis of Bismuth Salts.*

Chemist to the Provident Chemical Company, St. Louis, Mo.

Daniell Ernest Martell, A.B. (Pennsylvania, 1898): Old French, Spanish, German.

Thesis: *The Dramas of Don Antonio de Solis y Rivadeneyra.*

Teacher of Modern Languages in the Hyperion School of Music, Philadelphia, and private tutor. Honorary Fellow in Romanic Languages.

Allen Rogers, B.S. in Chemistry (University of Maine, 1897) : Inorganic Chemistry, Organic Chemistry, Analytical Chemistry.

Thesis: *Derivatives of Complex Inorganic Acids.*

Senior Fellow in Chemistry.

Arthur Bertram Turner, B.A. (Johns Hopkins, 1892) : Astronomy, Mathematics, Physics.

Thesis: *Secular Perturbations arising from the Action of Jupiter on Mars.*

Professor of Mathematics, Temple College, Philadelphia.

Edwin Burket Twitmyer, Ph.B. (Lafayette, 1896) : Psychology, Philosophy, Pedagogy.

Thesis: *The Normal Knee-Jerk.*

Instructor in Psychology, University of Pennsylvania.

Frank Julian Warne, Certificate in Finance and Economy, A.M. (Pennsylvania, 1896, 1898) : Economics, Political Science, American History.

Thesis: *Labor Conditions and Wages in the Anthracite Mines.*

Senior Fellow in Economics.

James Field Willard, B.S. (Pennsylvania, 1898) : European History, American History, Political Science.

Thesis: *The Royal Authority and the Early English Universities.*

Instructor in History, Northwestern University, Evanston, Ill.

Lemuel Whitaker, B.A., M.A. (Columbia, 1881, 1894) : English Literature, English Philology, Italian.

Thesis: *Michael Drayton, Dramatist.*

Instructor in English Language and Literature, Northeast Manual Training School, Philadelphia.

Levi Parker Wyman, A.B., A.M. (Colby University, 1896, 1899): Inorganic Chemistry, Organic Chemistry, Analytical Chemistry.

Thesis: *The Purification of Tungstic Acid.*

Instructor in Quantitative Analysis, Pennsylvania State College.

NEEDS.

Our most serious need is more assistance to Professor Rennert in Romanic Languages. Professor Rennert now carries our entire graduate work in Romanic Languages, in addition to a large number of undergraduate hours. I cannot express too strongly my sense of the importance of extending our work in this direction.

Respectfully submitted,

WM. ROMAINE NEWBOLD,

Dean.

SENIOR FELLOWS AND FELLOWS ON THE GEORGE LEIB
HARRISON FOUNDATION, 1896-1902.

Raymond Macdonald Alden, A.B., A.M. (Pennsylvania, 1894; Harvard, 1896): English. Fellow, 1897-98; Ph.D., 1898; Senior Fellow, 1898-99. Instructor in English, Pennsylvania, 1899-1901; Assistant Professor of English and Rhetoric, Leland Stanford, Jr., University, 1901, to date.

Hartley Burr Alexander, A.B. (Nebraska, 1897): Philosophy. Fellow, 1898-1900; Fellow in Philosophy at Columbia University, 1900-01; Ph.D., Columbia, 1901. Address, 15 Kearsarge Avenue, Boston, Mass.

Robert Judson Aley, A.B., A.M. (Indiana, 1888, 1890): Mathematics and Astronomy. Fellow, 1896-97; Ph.D., 1897. Professor of Mathematics, Indiana University, 1891 to date.

William Harvey Allen, A.B. (Chicago, 1897): Political Science. Fellow, 1898-1900; Ph.D., 1900. Instructor in Public Law, Pennsylvania, 1900-01; General Secre-

- tary New Jersey State Charities Aid Association, June, 1901, to date; Lecturer on Sociology, Pennsylvania, 1902-1903.
- George William Bacon*, B.S. (Pennsylvania, 1899): Romanic Languages. Fellow, 1900-01; graduate student, 1901 to date.
- Leonard Anderson Blue*, Ph.B. (Cornell College, 1892): Political Science. Fellow, 1900-01; Ph.D., 1902. Professor of English in Morningside College, Sioux City, Iowa, 1902 to date.
- Gilbert Hillhouse Boggs*, B.S. (Georgia, 1896): Chemistry. Fellow, 1899-1901; Ph.D., 1901. Instructor in Chemistry, University of Maine, 1901 to date.
- John Archibald Bole*, A.B. (Geneva College, 1888): Germanics. Fellow, 1901-02. Teacher of German, Eastern District High School, Brooklyn, N. Y., 1902 to date.
- Herbert Eugene Bolton*, B.L. (Wisconsin, 1895): American History. Fellow, 1897-99; Ph.D., 1899. Professor of History and Economics, Milwaukee State Normal School, 1899-1901; Instructor in History, Milwaukee State Normal School, 1899-1901; Instructor in History, University of Texas, 1901 to date.
- Barclay White Bradley*, A.B. (Pennsylvania, 1897): Classical Languages. Fellow, 1898-1900; Ph.D., 1900. Professor of Latin and Greek, Temple College, Philadelphia, 1900 to date.
- Charles Lindsay Burroughs*, A.B. (Chicago, 1899): European History. Fellow, 1901-02; A.M., 1902. Died in Paris, France, November 24, 1902.
- Lee Byrne*, A.B., A.M. (University of Illinois, 1898; University of Chicago, 1899): Classical Languages. Fellow, 1900-01; Ph.D., 1901. Master in charge of Modern Languages, Lake Forest Academy, Ill., 1901-1902. Instructor in Latin, St. Louis Normal and High School, 1902 to date.

- Henry Lewin Cannon*, A.B. (Adelbert College, 1893; Harvard, 1894): European History. Fellow, 1897-98; Ph.D., 1898. Instructor in History, Indianapolis High School (Shortridge), Indiana, 1899-1900; Instructor in History, University of Cincinnati, 1900 to date.
- Samuel Paul Capen*, A.B., A.M. (Tufts College, 1898): Germanic Languages. Fellow, 1900-1901; Ph.D., 1902. Instructor in Modern Languages in the Collegiate Department of Clark University, 1902 to date.
- Henry Shoemaker Conard*, B.S., A.M. (Haverford, 1894-95): Biology. Fellow, 1899-1901; Ph.D., 1901; Senior Fellow in Botany, 1901 to date.
- Frederick Albert Cleveland*, Ph.B. (De Pauw, 1890): Economics. Fellow, 1899-1900; Ph.D., 1900. Instructor in Finance, 1900 to date.
- William Jay Mills Cragg*, A.B. (Toronto, 1900): Semitics. Fellow, 1901 to April 1, 1902.
- Morris William Croll*, A.B., A.M. (Pennsylvania College, 1889, 1892; Harvard, 1894, 1895): English. Fellow, 1899-1901; Ph.D., 1901; Honorary Fellow in English, 1901-02. One of the editors of the new dictionary to succeed the old Worcester, now being prepared by Mr. J. Bertram Lippincott under the chief editorship of Dr. C. P. G. Scott.
- Joseph Vincent Crowne*, A.B., A.M. (St. Joseph's, 1896; University of Pennsylvania, 1898): English. Fellow, 1898-99; Ph.D., 1899; University Fellow in English, 1899 to February, 1901; Honorary Fellow, February, 1901, to June, 1902. Professor of English Literature, Temple College, Philadelphia, February to October, 1901; Tutor in Latin and Greek, College of the City of New York, October, 1901, to date.
- Edward Ziegler Davis*, B.S. (Pennsylvania, 1900): Germanics. Fellow, 1901 to date.
- Lee Maltbie Dean*, A.B. (Yale, 1896): Indo-European Philology, 1897-99; absent on leave, 1899-1902. Pas-

tor of the Tucker Memorial Church, North Brookfield, Mass.

Victor William Dippel, A.B. (Pennsylvania, 1895); Semitics. Fellow, 1898-99; Ph.D., 1899; Senior Fellow, 1900-01. Pastor of St. John's Reformed Church, Lebanon, Pa., 1901 to date.

Burton Scott Easton, B.S. (Pennsylvania, 1898): Mathematics. Fellow, 1900-01; Ph.D., 1901; Senior Fellow, 1901-02. Instructor in Mathematics, 1902 to date.

William Fairley, A.B., A.M. (Amherst, 1878, 1883), D.D. (Beloit, 1896): European History. Ph.D., 1897; Senior Fellow, 1897-98 and 1899-1900. Teacher of History in the Brooklyn High School, 1900 to date.

John Brookie Faught, A.B. (Indiana, 1893): Mathematics. Fellow, 1898-99; Ph.D., 1899. Assistant Professor of Mathematics, University of Indiana, 1899-1900; Professor of Mathematics, Northern State Normal School, Marquette, Mich., 1900 to date.

Henry Fox, B.S. in Biology (Pennsylvania, 1899): Biology. Fellow, 1901-02. Instructor in Biology, Wisconsin University, 1902 to date.

William Henry Glasson, Ph.B. (Cornell, 1896): Economics. Fellow, 1897-98; Ph.D., Columbia, 1900. Instructor in History and Civil Government in the George School, Pa., 1899-1902; Professor of Political Economy and Social Science at Trinity College, Durham, N. C., September, 1902, to date.

Jeremiah Marcus Hadley, B.S. (Earlham, 1896): Mathematics and Astronomy. Fellow, 1897-99; died in Philadelphia, January 6, 1899.

James Edward Hagerty, A.B. (Indiana, 1892): Sociology. Fellow, 1899-1900; Ph.D., 1900; Senior Fellow, 1900-01. Assistant Professor of Economics, Ohio State University, 1901 to date.

John Louis Haney, B.S. (Pennsylvania, 1898): English. Fellow, 1899-1900; Ph.D., 1901. Instructor in Eng-

- lish and History, Central High School, Philadelphia, 1900 to date. Honorary Fellow in English, 1901 to date.
- Ulysses Sherman Hanna*, A.B., A.M. (Indiana, 1895, 1898), Mathematics and Astronomy. Fellow, 1899-1901. Assistant Professor of Mathematics, University of Indiana, 1901 to date.
- Willett Lepley Hardin*, B.S. (Buchtel, 1893): Chemistry. Ph.D., 1896; Senior Fellow, 1896-99. Instructor in Physical and Technical Chemistry, 1899-1900. Consulting Chemist, 1900 to date. Address, Prescott, Arizona.
- Burt Lawes Hartwell*, B.Sc., M.S. (Boston University, 1889; Massachusetts Agricultural College, 1900): Chemistry. Fellow, 1901 to date.
- Harold Heath*, A.B. (Ohio Wesleyan, 1893): Biology. Fellow, 1896-98; Ph.D., 1898. Assistant Professor of Invertebrate Zoölogy, Leland Stanford, Jr., University, 1898 to date.
- Paul Renno Heyl*, B.S. (Pennsylvania, 1894): Mathematics. Fellow, 1897-98; Ph.D., 1899. Instructor in Physics and Mathematics, Boys' High School, Reading, Pa., 1898-1902; Instructor in Physics and Chemistry, Central High School, Philadelphia, 1902 to date. Honorary Fellow in Physics, 1902-03.
- Frank Edward Horack*, B.Ph., A.M. (Iowa, 1897, 1899): Political Science. Fellow, 1901-02; Ph.D., 1902. Instructor in Political Science, State University of Iowa, 1902 to date.
- Arthur Charles Howland*, A.B. (Cornell, 1893): European History. Fellow, 1896-97; Ph.D., 1897; Senior Fellow, 1898-99. Instructor in History, University of Illinois, 1897-98. Instructor in History, Teachers' College, Columbia University, 1899 to date.
- Henry Downing Jacobs*, A.B. (Pennsylvania, 1899): Pedagogy. Fellow, 1901 to date.

- Fleming James*, A.B., A.M. (Pennsylvania, 1895-1896): Classical Languages. Fellow, 1897-99; Ph.D., 1899. Entered the ministry of the Protestant Episcopal Church; in charge of St. Andrew's P. E. Church, Philadelphia, November, 1901, to July, 1902; September 1, 1902, in charge of the Church of the Saviour, Hong Kong, China.
- Carl Kelsey*, A.B. (Iowa College, 1890): Sociology. Fellow, 1901 to date.
- Simon Koppe* (Graduate of the Gymnasium of Breslau, Germany): Semitics. Fellow, 1896-98; Ph.D., 1898. Lost at sea by sinking of "La Bourgogne," July 4, 1898.
- Ezra Lehman*, Ph.B. (Bucknell, 1899): English. Fellow, 1901 to date.
- Orlando Faulkland Lewis*, A.B., A.M. (Tuft's College, 1895, 1897): Germanics. Fellow, 1898-1900; Ph.D., 1900. Assistant Professor of Modern Languages, University of Maine, 1900-01; Professor, 1901 to date.
- Charles Henry Lincoln*, A.B., A.M. (Harvard, 1893, 1894): Ph.D., 1896; Senior Fellow in Political Science, 1896-97; in American History, 1898-99. Instructor in History and English Literature at the Delancey School, 1897-98; Assistant in the Manuscripts Division of the Congressional Library, 1899-1900; First Assistant, 1900 to date.
- William Ezra Lingelbach*, A.B. (Toronto, 1894): European History. Fellow, 1899-1900; Ph.D., 1901. Instructor, 1900 to date.
- Horace Craig Longwell*, A.B. (Pennsylvania, 1898): Philosophy. Fellow, 1900 to February, 1901; 1901-02; absent on leave at Harvard University, 1902-03.
- George Daniel Luetscher*, B.L. (Wisconsin, 1898): American History. Fellow, 1900-02; Ph.D., 1902. Teacher in George School, Pennsylvania, 1902 to date.

- Daniell Ernest Martell*, A.B., A.M. (Pennsylvania, 1898, 1900): Romanic Languages. Fellow, 1899-1900; Ph.D., 1902; Honorary Fellow, 1902-03.
- Joseph Merritt Matthews*, B.S. (Pennsylvania, 1895): Chemistry. Fellow, 1896-97; Ph.D., 1898. Professor of Chemistry and Dyeing, Philadelphia Textile School, 1898 to date.
- Roswell Cheney McCrea*, A.B., A.M. (Haverford, 1897; Cornell, 1900): Economics. Fellow, 1900-01; Ph.D., 1901. Acting Head of Department of History, State Normal School, Charleston, Ill., 1901-02. Instructor in Economics, Trinity College, Hartford, Conn., 1902 to date.
- Francis Herbert McLean*, A.B. (California, 1892): Sociology. Fellow, 1897-98. General District Secretary of the Chicago Bureau of Charities.
- Ira Bennett McNeal*, A.B. (Dickinson, 1898): Pedagogy. Fellow, 1899-1901. Address, Lock Haven, Pa.
- Edward Sherwood Meade*, A.B. (De Pauw, 1896): Economics. Fellow, 1898-99; Ph.D., 1899; Senior Fellow, 1899-1900. Instructor in Business Practice, 1900 to date.
- Charles Jastrow Mendelsohn*, A.B. (Pennsylvania, 1900): Classical Languages. Fellow, 1901 to date.
- Charles Reed Miller*, A.B. (Dickinson, 1887): Germanic Languages. Fellow, 1896-97; Ph.D., 1897. Senior Instructor in Modern Languages, Lehigh University, 1897-1901. Professor of German, Polytechnic Institute, Brooklyn, 1901 to date.
- John Raymond Murlin*, B.S. (Ohio Wesleyan, 1897): Zoölogy. Fellow, 1899-1901; Ph.D., 1901. Professor of Biology and Instructor in Chemistry, Ursinus College, Colledgeville, Pa., 1901 to date.
- Charles Dickens Nason*, B.S. (Haverford, 1896): Pedagogy. Fellow, 1897-99; Ph.D., 1899. Professor of

- Pedagogy, Tri-State Normal School, Angola, Ind., 1899-1901. Died at Angola, Ind., April 21, 1901.
- Lewis Irving Neikirk*, B.S., M.S. (University of Colorado, 1898, 1901): Mathematics and Astronomy. Fellow, 1901 to date.
- William Rolla Patterson*, Ph.B. (Iowa, 1895): Political Science. Fellow, 1897-98; Ph.D., 1898. Assistant Instructor Economics and Statistics, University of Iowa, 1898-99; Instructor, *ibid.*, 1899-1900; Assistant Professor in charge of Economics and Statistics, University of Iowa, 1900-01; Registrar, Bureau of Statistics, Tenement House Department, New York City, 1901 to date.
- William Theodore Paullin*, A.B., A.M. (Bucknell, 1895-96): Philosophy. Fellow, 1901 to date.
- Allen Rogers*, B.S., M.S. (University of Maine, 1897, 1900): Chemistry. Fellow, 1901-02; Ph.D., 1902; Senior Fellow, 1902 to date.
- Abraham S Wolf Rosenbach*, B.S. (Pennsylvania, 1898): English. Fellow, 1900-01; Ph.D., 1901; Honorary Fellow, 1901 to date.
- Martin Schütze*, Graduate of the Gymnasium of Güstrow, Germany: Germanics. Fellow, 1898-99; Ph.D., 1899; Senior Fellow, 1899, to January, 1901. Instructor in Germanics, Northwestern University, Evanston, Ill., January to June, 1901; Associate Instructor in German Literature, University of Chicago, 1901 to date.
- Fred Strong Shepherd*, A.B. (Beloit, 1884): Economics. Fellow, 1896-97; Ph.D., 1897. Instructor in Economics, Adelphi College, Brooklyn, 1897-98; Assistant Professor of Economics, *ibid.*, 1898-99; Superintendent of Schools, Asbury Park, N. J., 1899 to date.
- Edgar Arthur Singer, Jr.*, B.S. (Pennsylvania, 1892): Philosophy. Ph.D., 1894; Senior Fellow, 1896-98. Instructor in Philosophy, 1898 to date.

- Glen Levin Swiggett*, A.B., A.M. (Indiana, 1888, 1893): Germanics. Ph.D., 1901; Senior Fellow, 1901-02. Acting Professor of German, University of Missouri, 1902 to date.
- Thomas Maynard Taylor*, B.S. (Oberlin, 1897): Chemistry. Fellow, 1899-1901; Ph.D., 1901. Instructor in Chemistry, Oberlin College, 1901 to date.
- Alfred Tingle*, B.Sc. (Aberdeen, 1896; London, 1897): Chemistry. Fellow, 1897-99; Ph.D., 1899. Assistant in Chemistry, University of Wisconsin, 1899-1900; Assistant in Analytical Chemistry, Columbia University, 1900-1902; Professor of Chemistry in the Government College, Shantung Province, China, 1902 to date.
- Claude Halstead Van Tyne*, A.B. (Michigan, 1896): American History. Fellow, 1898-1900; Ph.D., 1900; Senior Fellow, 1900 to date.
- Nicholas Panagis Vlachos*, Graduate of Gymnasium of Haarlem, Holland: Classical Languages. Fellow, 1899-1901; Ph.D., 1901; Senior Fellow, 1901 to date.
- Joseph Parker Warren*, A.B., A.M. (Harvard, 1896, 1897): American History. Fellow, 1897-98; Ph.D., Harvard, 1900.
- Walter Edward Weyl*, Ph.B. (Pennsylvania, 1892): Economics. Fellow, 1896-97; Ph.D., 1897; Senior Fellow, 1897-99. 1899-1900, in charge of Division of Internal Commerce of the Bureau of Statistics, Treasury Department, Washington, D.C.
- George Ray Wicker*, A.B. (Cornell, 1890); Sociology. Fellow, 1898-99; Ph.D., Wisconsin, 1900. Instructor in Economics, Dartmouth College, 1900 to date.
- James Field Willard*, B.S. (Pennsylvania, 1898): European History. Fellow, 1901-02; Ph.D., 1902. Instructor in History, Northwestern University, 1902 to date.

APPENDIX IV.

REPORT OF THE DEAN OF THE FACULTY OF LAW.

To the Provost of the University;

SIR:—I have the honor to submit the following report for the year ending August 31, 1902:

NUMBER AND GEOGRAPHICAL DISTRIBUTION OF STUDENTS.

The total number of students registered in the Department was 392: 179 in the first-year class, 87 in the second-year class, 88 in the third-year class, 20 specials, and 18 partials. This is an increase over the previous year of 27. There were 26 more registered in the first-year class this year than in the year before. The last year under the old entrance requirements was that of 1896-97. In that year the number registered in the first-year class was 161, and in the Department, 358. The more stringent entrance requirements, which went fully into effect in the fall of 1898, reduced the number of students, but in 1900-01 we registered 365, or a greater total than in 1896-97, but the first-year class, however, was smaller than in 1896-97. The year just passed, therefore, is the first year in which the registration in the first-year class, as well as the total in the entire Department, exceeded the last year under the old entrance requirements.

The geographical distribution of the students as compared with the previous year is as follows:

	1900-01.	1901-02.
From Philadelphia	182, or 49 per cent.	200, or 51 per cent.
From Pennsylvania outside of Philadelphia	118, or 32 per cent.	121, or 31 per cent.
From other States and for- eign countries	65, or 17 per cent.	71, or 18 per cent.

A few years ago practically all of our students were drawn from Philadelphia and the immediate neighborhood. The progress which we have been able to make in widening the area from which we draw students is in chief part due to the very general knowledge of the fact that our physical equipment is superior to that of any other law school in the world. But, in drawing students from the interior counties of the State, we have been much hampered by the requirement in many of the counties that students must spend part of their time in the office of a local practitioner. These rules, which prevent a law student leaving home to pursue his legal studies, were framed at a period when the modern law school was unknown. In some counties the knowledge of the present conditions of legal education and the appreciation of the thoroughness of our course in Pennsylvania "Practice" has caused a modification of the rules above stated. The new rules for admission to the Supreme Court of the State, spoken of later, will tend in a short time to make uniform the rules of admission to all the counties, and in time do away with the serious discriminations against law schools just indicated.

It is, I believe, imperative that we should spare no effort to increase our present hold on the State. We have now representatives from thirty-seven counties; we should have in a few years representatives from practically all of the sixty-seven counties.

The increase of students from New Jersey from 18 last year to 31 this, is most gratifying, and is due, I believe, in part to the fact that we have a thorough course in New Jersey practice and statutes.

AGE OF STUDENTS.

The average age of the entering class was slightly older than for the previous year, being 21.4 as compared with 20.7 for 1901-02. As usual, the greater number of men entered at the age of 21. The results of the examinations indicate that men under 20 or over 25 do not do nearly as well as those who are between 20 and 25. Thus the average age on entrance of High School graduates in this year's graduating class was 20.3 years; but the average age of all the High School men who entered with that class, including those who graduated, was 19.4, showing that the younger portion dropped out in large numbers during the course. Indeed, a careful examination of the results of our examinations in course would seem to require us to seriously consider the desirability of placing some age limit in our entrance requirements.

PRIOR EDUCATION OF STUDENTS.

In the entering class there were 71 college graduates; 29 partial college men, or men who had spent one or more years in college; 51 public high school graduates, and 28 men who cannot be included in any of these classes.

In the previous first-year class there were 70 college graduates; 23 partial college men; 49 public high school graduates; and of all others, 11. In the entire Department 61 colleges were represented as compared with 58 during the previous year. It is gratifying to note that we had in our Department 43 graduates of our own College as compared with 30 the year before.

RESULTS OF EXAMINATIONS IN COURSE.

The general average of all the students in the Department in the examinations in course was 75.14, which is somewhat higher than it was during the two previous years, when it was 74.9 and 75.05 respectively.

The total number of examinations taken in June was

2114, of which 393, or 18 per cent., were distinguished; 288, or 13 per cent., were conditioned; and the remainder, 1433, or 67 per cent., were passed. These figures are practically identical with those of the previous year, when 18 per cent. were distinguished and 14 per cent. were conditioned. As usual the failures occurred mostly in the first year. Of the 152 men of the first-year class presenting themselves for examination, 29 received three or more conditions, and if they return will be obliged to repeat the year. This is a somewhat smaller percentage than last year, when out of 120 who took the examinations 31 were dropped. In the second-year class only six men will be obliged to repeat the year on account of conditions. In our third year six men failed to graduate. This is a larger number than usual, and was due in some instances to the health of the student. Classifying the results of the examinations according to the prior scholastic preparation of the students, we find that the highest standing was obtained by the graduates of our own College, Harvard, Yale, and Princeton; the general average of students from these colleges being 80.06, or more than two points higher than that of the college graduates generally, which was 78.04. The graduates of the Central High School of Philadelphia obtained an average of 78.50, which is slightly above that obtained by college graduates, and more than three points above that obtained by high school graduates as a class, which was 75.3. The partial college men obtained an average of 71.93. This is remarkably low for this class, which usually ranks with high school men. It is due to the low general average of the men of this class in the first year. Their average was only 66.30, and a number were hopelessly conditioned. As usual the college graduate was the chief recipient of honors and prizes. Of the 19 men who received honors for the year, 13 were college graduates.

ENTRANCE EXAMINATIONS.

In the spring and fall of 1901, 34 men took all the entrance examinations, and 14 others took one or more but not

all the subjects. Four men were admitted without conditions, 31 were admitted on condition, and 13 were rejected. It should be explained that, in accordance with the rule in force in all the departments, a student to be admitted must pass in at least two-thirds of the subjects he presents for entrance.

CHANGES IN THE COURSE.

The course was substantially the same as in 1900-01; 55 regular hours a week were given, 29 subjects being taught, 8 to the first-year class, 7 to the second, and 14 to the third-year.

In the first two years of the course the subjects are all compulsory, while in the third year the student is obliged to elect twelve hours a week.

The subject of "Constitutional Law" was offered by Mr. Patterson as a third-year elective, instead of being, as heretofore, a part of the second-year course. Three new courses were given during the year. Mr. Bohlen gave the subject of "Quasi Contracts" to the second-year class one hour and a half a week. The other new courses, which were offered as third-year electives, were given by Mr. Biklé, one on "Carriers" and one on "Code Pleading," each having one hour a week. The addition of the last-named subject enables us to properly prepare the increasing number of students who come from the so-called "Code" States. It may be pointed out that giving separate courses in practice, rather than one general course, is peculiar to our school. The Faculty believe that the local practice in such States as Pennsylvania, New Jersey, and Delaware warrant separate courses, and that the results justify the trouble and expense involved. As Code Practice in each State which has adopted it is practically identical, only one course need be given.

THE SYSTEM OF QUIZZING.

The year marks the complete adoption of the new idea of the Law School Quiz. Several years ago the regular

course was supplemented by the students themselves, who hired outside persons known as "Quizzers." In 1897-98 the Law School, recognizing the educational value of constant review, provided quizzes in the first- and afterwards in the second-year subjects. For the purposes of these quizzes the class was divided into sections of about fifteen students. Attendance was voluntary. The quizzers themselves went over the matter covered in the class by question and answer. Experience showed that, while in many cases the work was of real benefit, the more negligent students attempted to use the quiz as a substitute for personal work. About two years ago the plan was tried of taking the examination papers in the subject of the year before, and discussing the proper answer to the hypothetical cases given. A hypothetical case was announced, the decision of which rested on cases already discussed in class. All those who wrote out answers were admitted to the quiz. Some one was called on to read his answer. This gave a basis for discussion. The plan proved a success, and last year most of the professors in all three classes offered quizzes of the character indicated. These were well attended and it is believed, from an educational point of view, thoroughly successful.

The work forms a real preparation for the examinations which consist of hypothetical cases, and is a logical conclusion to the case system of instruction so largely used in the school,—a system resting on the idea that the law student is to be prepared to deal with concrete legal problems arising out of the facts of every-day life.

CHANGES IN THE FACULTY.

Although with the exception of the election of the Junior Fellow, Mr. Henry Wolf Biklé, there have been no additions to the teaching force during the year, the election of Mr. Francis H. Bohlen and Mr. Owen J. Roberts as Assistant Professors marks a most important advance in the history of the school. Both now give their time exclusively

to the work of the Department, thus raising the number of what we may call our permanent force to five. Both are graduates of the Department: Mr. Bohlen had been a Fellow for three years, and Lecturer for two, while Mr. Roberts had been a Fellow for two years and instructor for one.

SCHOLARSHIPS.

There were seventeen holders of City, and seven holders of Faculty, Scholarships registered in the Department, the total assistance given in this way amounting to \$3840.

WORK IN THE REGISTRAR'S OFFICE.

Besides the usual routine work of the office, at the request of the Faculty the Registrar, Mr. Geo. E. Nitzsche, prepared a volume commemorative of the exercises held at the opening of our New Building in February, 1900. The volume is handsomely illustrated, and contains all of the speeches and papers read on the occasion, a description of the event itself, and a history of the Department compiled by the Librarian, Mrs. M. C. Klinglesmith. Presentation copies were sent to the special guests of the University at the Exercises, and the remaining copies published were taken by members of the alumni. The book itself reflects credit on its compiler, being worthy of the occasion, the record of which it is designed to preserve. There has also been prepared a complete registry of all the students in the Department since 1810, this being a preliminary step to the creation of a Matriculate Catalogue, the need for which has been found to be imperative.

THE BIDDLE LIBRARY.

On August 1, 1901, the accession number was 25,632; on August 1, 1902, 28,008; or an increase of 2376. This increase was divided as follows:

Text-Books	880
Reports	460
Statutes	190
Digests	55
Encyclopædias	15
Periodicals	141
Ordinances	6
Bar Association Reports.....	25
Trials	316
Dictionaries	5
Public Documents	283
	<hr/>
	2376

The use of the Library has increased greatly throughout the year. This has been due partly to the increase in number of students, but principally, I believe, to the more efficient service and to the increase in the number of the teaching force resident in the building. There has also been some increase in the use made of the McMurtrie Hall (the Graduate Reading-Room) by students in the Department of Philosophy and by members of the Bar. This increased use of the library entails additions to the librarian's force of assistants, but it is the belief of the Faculty that it is our imperative duty to make our collection of books easily accessible, not only to the student and professor, but to any one who evinces a desire to do serious legal work. The library is the workshop of the school, and its efficient conduct, which means the maximum assistance possible on the part of the librarians to those who desire to use it, is rightly taken by student and stranger alike as an index of the spirit and efficiency of the school itself.

The Library was founded by the family of Mr. Geo. W. Biddle in 1886. Since then the University has expended annually twelve per cent. of the receipts of the Department in the purchase of books, or a total of about \$70,000; besides which, in 1896-97 the University advanced to the Library the sum of \$6500, in order to make necessary purchases of reports. At the present time, taken in connection with the

collection of Statute Law in the General Library, the University has a collection of law books of which it may well be proud. In the past few years, however, all the leading law schools of the country have recognized that, in order that their faculties or others using the Library may do the class of legal work which counts in the upbuilding of a great school of law, they must have not merely a good law library, but one which contains a collection of books such as can be gathered only by unflinching diligence on the part of those interested. There must also exist the financial ability to make purchases of rare works when the opportunity is presented. The revenues of the Department are sufficient at present to enable us to keep up with all current legal publications. We can maintain any standard of completeness desired in the purchase of new books, but we cannot do this and also fill the gaps which exist in our present collection. The time has come, therefore, when I believe it is our duty to lay our necessities before the alumni and others interested in the Department, in order that we may build up for the University and for the City of Philadelphia a worthy collection of legal works, one which will insure the possibility of our being recognized as a centre for legal research.

REQUIREMENTS FOR ADMISSION.

As you are aware, for nearly two years the Faculty, and lately the members of the Legal Committee of the Board of Trustees, have had under consideration some change in our requirements for admission. All interested are now in accord as to the principles which should govern these requirements, and a Committee is at work preparing a definite recommendation, to be submitted this fall. Ample notice should and doubtless will be given of any change.

THE NEW RULES FOR ADMISSION TO THE BAR OF THE SUPREME COURT OF PENNSYLVANIA.

At the present time each county in the State has different rules for admission to their respective bars. The way in

which some of these rules hamper law schools has been indicated in an earlier part of this report. At the earnest solicitation of the Pennsylvania Bar Association, and in the interest of uniform requirements for admission to the Bar throughout the State, the Supreme Court has appointed a committee with the view of formulating rules for admission to practise in that court. It is earnestly hoped by the Faculty that these rules will include the examination of all candidates, whether graduates of law schools or not. The privilege which our graduates have in some counties, notably in Philadelphia, of being admitted without further examination, is one which we do not regard with favor. The man who attends a professional school merely because its diploma admits to the bar is not a desirable student. His whole attitude towards the school from the start is wrong. All we ask is that our graduates have an opportunity, as in the case of the graduates of medical schools, to be, on graduation, examined in respect to their fitness by an impartial body. For a number of years, in addition to the fundamental courses in those branches of the law identical in all States, the Faculty has conducted electives in Practice before the Common Pleas and Orphans' Courts and on the Pennsylvania Statutes, these courses being offered primarily for individuals intending to practise in this State. These special courses, it is the purpose of the Faculty to extend as much as necessary and perfect as far as possible. We believe our graduates will justify our course as at present conducted, and the result of a standard for admission to the Supreme Court of the State, to which the local Courts will unquestionably tend to conform, cannot fail to have an elevating effect on the standard of legal education throughout the Commonwealth.

Respectfully submitted,

WM. DRAPER LEWIS,

Dean.

APPENDIX V.

REPORT OF THE DEAN OF THE FACULTY OF MEDICINE.

To the Provost of the University;

SIR:—I have the honor of submitting to you the following report of the Department of Medicine for the academic year 1901-1902:

The students in attendance during the session, arranged in classes, numbered as follows:

Fourth-year Class	159
Third-year Class	129
Second-year Class	104
First-year Class	147
Special	3

542

Compared with the total number of students in attendance during the session 1900-1901, viz., 565, there was a decrease of 23 students in the total number in attendance. This decrease may be attributed, as stated in former reports, to the fact that, when the maximum increased entrance requirements were demanded, the entering classes decreased in size, and during this session three of the classes were classes that entered under the maximum entrance requirements of the Department, and also to the withdrawal of students on account of failure in examinations, or for other reasons. The percentage of withdrawals on account of failure in examinations is very much less than was the case during the period immediately prior to the time when the maximum entrance requirements were demanded.

The tabulated statement which follows shows the size of the entering classes during two sessions under the old requirements for admission, and during the three succeeding years during which the entrance requirements were annually increased, and also during the three sessions that the maximum increased requirements have been demanded.

	Members, first- year class.
<i>Old requirements :</i>	{ 1894-95..... 242
	{ 1895-96..... 333
First increase of entrance requirements :	1896-97..... 283
Second increase of entrance requirements :	1897-98..... 205
Third increase of entrance requirements :	1898-99..... 227
	{ 1899-00..... 141
<i>Maximum requirements :</i>	{ 1900-01..... 114
	{ 1901-02..... 147

It will be observed that the entering classes have gradually been increasing in numbers, and thus the experience of the Department in recovering from temporary depressions in numbers, whenever increased educational qualifications have been demanded and when the course has been lengthened by the addition of years, is being repeated.

Of the 114 members of the first-year class of the session 1900-1901, there were 12 individuals (10.5 per cent.) who had been members of the first-year class of the session 1899-1900, who, because of failure to pass the examinations for promotion, were repeating the studies of the year; whereas, of the 147 members of the first-year class of the session 1901-1902, only 8 individuals (5.4 per cent.) were repeating the studies of the year. This is gratifying, because it seems to be evident that a better prepared class of young men is entering the Department and that the recent changes in the curriculum and in the methods of teaching have had scholastic influence upon the students.

In the first-year class of the preceding session (1900-1901), which numbered 114, there were 36 college graduates, or 31.5 per cent.; while in the first-year class of this

session (1901-1902), which numbered 147, there were 52 college graduates, or 35.8 per cent. In this calculation there is not included a number of Seniors in the College of the University who are taking the so-called "composite year." The number of those registered in the composite year was 19, as compared with 2 the previous year.

The following tabulated statement exhibits the education received by the members of the first-year class prior to their entering the Department:

	Session 1901-02.	Session 1900-01.
Candidates who passed entrance examinations	14	8
Candidates who took part of the examinations (remainder covered by diplomas from High or Normal Schools)	7	3
College graduates .....(see foot-note)	50	36
Graduates of approved High Schools and Academies	27	25
Graduates of approved High Schools	2	1
Candidates who had been members of the Se- nior Class in a College of standing	*19	4
Candidates who had been members of the Junior Class in a College of standing	5	4
Candidates who had been members of the Sophomore Class in a College of standing	6	6
Candidates who had been members of the Freshman Class in a College of standing..	9	15
Dropped from the preceding First-year Class and repeating the studies of that year....	†8	12

It will be observed that 91 members (61.9 per cent.) of the class had attended a College or a University, the remaining 56 having been educated at High Schools, Academies, etc.

The following tabulation shows the average age of the membership of the entire first-year class, and also the average age of those who entered under the conditions stated, *i.e.*, from Colleges, High Schools, etc.:

* Seniors of the College of the University taking the "composite year."

† Includes 2 College graduates.

	Session 1901-02.	Session 1900-01.
The average age of the members of the First-year Class was	21.1	20.8
Average age of College graduates	22.4	22.0
Average age of members who entered from the Senior Class of a College of standing	20.4	21.7
Average age of members who entered from the Junior Class of a College of standing	21.4	20.7
Average age of members who entered from the Sophomore Class of a College of standing	21.3	19.6
Average age of members who entered from the Freshman Class of a College of standing	21.6	21.4
Average age of graduates of High Schools, Academies, etc.	19.5	19.0
Average age of graduates of Normal Schools	22.5	19.0
Average age of those entering by examination	20.6	19.8

The new system of non-compulsory electives, in which system members of the third-year class are permitted to take advanced work in subjects of the preceding years, and members of the fourth-year class are permitted to take additional work in the major subjects of the year and in the specialties in medicine, went into effect this session. The following tabulation shows the number of students who took work in the subjects stated, as compared with the number who took work in the subjects during the preceding session, when such work was compulsory:

	Session 1901-02.	Session 1900-01.
Nervous Diseases and Electro-Therapeutics....	11	5
Skin Diseases	25	29
Advanced Hygiene (including Bacteriology)..	5	0
Laryngology and Rhinology	14	38
Pharmacodynamics	0	1
Advanced Pathology	1	1
Orthopedic Surgery	37	11
Ophthalmology	15	14
Otology	1	4
Genito-Urinary Diseases	67	72
Advanced Anatomy	24	0
Advanced Physiology	0	0
Advanced Medical Chemistry (including Toxicology)	1	0

	Session 1901-02.	Session 1900-01.
Pediatrics	21	68
Experimental Psychology	0	0
Medicine	28	0
Obstetrics	33	0
Neuro-Pathology	18	0

Under rules formulated by the Bureau of Health of the city, members of the fourth-year class were permitted to take instruction in contagious diseases at the Municipal Hospital. This is the third year that such instruction has been voluntarily taken by members of the fourth-year class. During the session 1899-1900, 66 members of the class took such instruction; during the session 1900-1901, 65; and during the session 1901-1902, 84 members of the class took such instruction.

The post-graduate course inaugurated this session was given during the period from April 28 to July 1. The laboratory courses were scheduled to begin on April 28 and to close on June 14, and the clinical courses were scheduled to begin on May 12 and to close on June 28. It was designed that each of the courses, *i.e.*, laboratory and clinical, should extend over a period not exceeding six weeks. Twenty-eight graduates in medicine inscribed for the courses. The following schedule exhibits the number of graduates who inscribed to take all of the courses that the roster would permit, and also the number of graduates who inscribed for individual courses:

All Laboratory and Clinical Courses permitted by the roster	9
Medicine 2 and 4	1
Medicine 2 and 5	3
Medicine 2 and 7	1
Medicine 6	3
Bacteriology 1	1
Bacteriology 2	1
Pathological Histology of the Eye	2
Physiology 1	1
Otology	} 1
Ophthalmology	

Although the giving of this course was a new feature in the Department, the instruction was carried out with considerable zeal on the part of the teaching-staff, and those who took the course appeared to be well satisfied with the instruction which they received.

The general educational work of the Department was carried on with interest and efficiency by the members of the teaching-staff.

Respectfully submitted,

JOHN MARSHALL,
Dean.

APPENDIX VI.

REPORT OF THE UNIVERSITY HOSPITAL.

To the Provost of the University;

SIR:—In presenting the twenty-seventh annual report, the Managers feel that the Hospital has materially increased its service and usefulness in all its departments. One feature specially remarked is the large increase in the number of free beds which, while they serve to assist the clinical teaching for the Medical School, entail largely increased expenses to the management, and to some extent account for the debt that the Hospital now has. In past years the Hospital has received considerable income from the Ward patients, but this year it has been almost nothing.

It is with gratification we note, however, that our private rooms have been well occupied, and the income from them has considerably increased from those of a few years back. This is largely due to the efforts of the Board of Managers, who have provided rooms with every comfort and convenience for the patients, and who have directed the Superintendent to leave nothing undone in the way of food and service for their benefit. This excellent service has been of material aid to the Hospital, and some of those who have been private patients have shown their appreciation by making liberal donations. The following persons endowed beds during the year: Mrs. Mary Howard Roberts, \$10,000; Mrs. Richard Heckscher, \$5000; Mr. George L. Harrison, \$5000. The management has established a rule that the donors of all endowed beds shall have a proper tablet placed in the main corridor, stating in whose memory the bed is endowed and the name of the donor. There

were many other donations both in money and articles, for which the management take this opportunity to express their thanks.

During the year four ward kitchens were tiled and new plumbing installed. A dressing-room and isolation-room connected with the Men's Surgical Ward were tiled and new plumbing introduced. There was also considerable painting and renovating done throughout the building, and repairs made where needed. The main kitchen has been materially improved by the substitution of a gas-range in place of one of coal, thereby saving considerable heat and also avoiding the dust and ashes that heretofore prevailed.

These repairs involved an expense of over \$10,000, and while the financial condition of the Hospital hardly warranted it, the Executive Committee felt it was imperatively necessary for the good of the Hospital, and sincerely hope its many friends will, by their generosity, help to pay for them.

The Solarium, attached to Dr. De F. Willard's Orthopedic Ward, through the liberality of Mr. and Mrs. Henry H. Collins has been enlarged without expense to the Hospital.

Through the generosity of Mrs. Clement B. Newbold, a large Clinical Amphitheatre and also a small ward for operative cases in connection with the Maternity Building has been erected in memory of her mother, Anna D. Scott. It has been very completely furnished and fitted up with sterilizing plant and other conveniences.

Through the liberality of the Ladies' Auxiliary Committee of the Maternity Ward, the latest improved incubator has been provided and most effectively and satisfactorily used during the year. They have also had done considerable tiling and plumbing, and the Maternity Ward is now looked upon, through their efficient exertions, as among the best in the country.

In the early part of the year the Chief Resident, Dr. William B. Stanton, resigned and Dr. J. B. Carnett was appointed in his place. In the month of September the latter resigned and Dr. John W. Luther was elected.

It is with pleasure we note that through the efficient management of Miss Jean W. Macpherson, our Superintendent, and her assistants, the Hospital, during the past year, lived within its income, although the indebtedness of about \$20,000 at the beginning of the year still remains. The receipts were about \$141,000, while the expenses were about \$140,000.

That the usefulness of the Hospital has been greatly enlarged is evidenced by an increase of eighteen per cent. in the number cared for in the wards over previous year. As stated before, the number of free patients has also largely increased, but while it gives us great satisfaction to be able to do this work, it must not be forgotten that the cost of provisions has materially advanced, thus adding considerably to our expenses.

During the year the city was visited by an epidemic of smallpox. The management early took precautions by vaccination and otherwise to prevent its entering the Hospital, and, we are happy to state, so far there has not been a case.

This report should not be closed without mention of the laborious and valuable services of Mr. George H. McFadden, Chairman of the Finance Committee, and Mr. Robert E. Hastings, Chairman of the Executive Committee, and their associates, all of whom have been untiring in their exertions for the good of the Hospital.

To the Board of Women Visitors we cannot express too strongly our appreciation of the valuable and many services they have rendered the past year.

To the Medical Staff and Dispensaries, and all those who have in any way assisted them, we tender our sincere thanks for their able and valuable services.

It now becomes our sad duty, in closing, to render a

tribute to our late deceased President, Dr. William F. Norris. His service of seven years as President of the Board, and his active connection with the Hospital since it was built, had endeared him to all who came in contact with him, and his ability as an Ophthalmologist marked him as one eminent in his profession. His death was a great loss to the Board and Hospital.

It is also with great sorrow that we record the death of Mr. John C. Sims, for many years a valued member of the Board of Managers. His great interest in the Hospital, together with his genial and pleasant ways, have caused his loss to be deeply felt and much regretted by every one connected with the institution.

Respectfully submitted,

FRANCIS P. SIBLEY,
Secretary.

APPENDIX VII.

REPORT OF THE DIRECTOR OF THE WISTAR INSTITUTE OF ANATOMY.

To the Provost of the University;

SIR:—The year ending August 31, 1902, has been the most successful in the history of the Institute. The financial conditions have been still further improved, in that the funds constituting part of the endowment have been increased and the properties in Chicago, rebuilt and improved by the officers in charge, are entirely rented, thus producing their maximum income. The accumulation of a large Contingent Fund has progressed rapidly. While this accumulation for the present reduces the current income of the Institute, it forestalls the danger of any sudden contraction of the future income, should it be necessary in any one year to appropriate large sums to cover loss by fire or towards the erection of new buildings. The construction of new museum cases has been continued, and the purchase of equipment has been made possible by a special contribution by General Wistar.

For some years the officers in charge have urged the acquisition of the triangle of ground lying to the west of the Institute building, owned by the city and occupied by police and patrol stations. It is gratifying to be able to report the purchase of this land and the consequent timely provision for the future protection and growth of the present buildings.

The Museum building has received close attention during the year; needed improvements have been made; and several large rooms have been painted and furnished with

double windows, shades, and electric-light fixtures. The repairs found necessary involved the rebuilding, at great expense, of almost the entire parapet wall on the top of the main building. These extraordinary expenses have absorbed the greater part of the current income left after the payment of fixed charges.

The laboratories have been used regularly by four investigators,—in addition to the officers,—and the reserve collections have been consulted and studied by an increasing number of men engaged in original research. Several collections of specimens have been loaned to students in other cities.

There is a noticeable growth in the number of visitors to the Museum and in the number of students who make use of the educational exhibits.

The amount of original work done in the Institute is increasing with the increase in the facilities offered for investigation. The equipment of the laboratories has been enlarged by the purchase of a large supply of glassware, and progress has been made towards securing a good working library.

In addition to such routine museum work as cleaning, preserving, and cataloguing specimens, the museum cases built last year have been filled with carefully prepared specimens illustrating comparative osteology.

No very large special collections have been received during the year, but important additions have been made to all departments. Some of these specimens have been prepared for exhibition and others have been preserved for future study. Special mention should be made of the valuable specimens secured by Mr. George L. Harrison, Jr., illustrating the big game of America.

The descriptive text has been printed for about a dozen cases of educational exhibits of human osteology, and as soon as the special cases are ready the subject can be rapidly completed. Five hundred new wooden trays have been pur-

chased on which to display the excellent collection of human bones now stored away.

The work in the shop has progressed satisfactorily. Seven new steel cases have been built during the year. Of these four are full-sized standard museum cases and three are large hall cases. The special case for the Orang group was finished and placed in the centre of the upper Museum.

Respectfully submitted,

HORACE JAYNE,
Director.

APPENDIX VIII.

REPORT OF THE DEAN OF THE FACULTY OF DENTISTRY.

To the Provost of the University;

SIR:—I have the honor to submit the following report of the condition of the Department of Dentistry for the academic year 1901-02.

The total number of students matriculated 1901-02.	365
Of these, there were students of the Third Year.	131
Of these, there were students of the Second Year.	98
Of these, there were students of the First Year.	108
Of these, there were Special Students.	28
	365
Number of new matriculates, including those admitted to advanced standing	136

Those admitted to advanced standing presented certificates from the following institutions:

Atlanta Dental College	1
Dartmouth College, Medical Department	1
Dental Hospital, London, England	1
Faculty of Medicine, Paris, France	1
Faculty of Physicians and Surgeons, Glasgow, Scotland . . .	1
Guy's Hospital, London, England	3
Iowa State University, Dental School	1
L'École Dentaire, Paris, France.	2
Milwaukee Medical College, Dental Department	1
New York College of Dentistry	2
New York Dental College	1
Northwestern University, Dental School	1
Omaha Dental College	4
Royal College of Dental Surgeons, Toronto, Canada	1
University of Berlin, Berlin, Germany	1

University of Buffalo, Dental Department	I
University of Edinburgh, Scotland	I
University of Maryland, Dental Department	I
University of Michigan, Dental School	I
University of Minnesota, Dental School	I
University of Zurich, Switzerland	I
Yale University, Medical School	I

The countries represented in the Department are as follows:

Middle States	199
New England States	49
Western States	19
Southern States	13
Pacific States	4
Australia	11
Austria	2
Bahamas	1
Barbadoes	1
Brazil	4
Canada	15
Chile	2
China	1
Cuba	3
Ecuador	1
England	6
France	5
Germany	4
Ireland	1
Jamaica	2
Mexico	3
New Zealand	10
Nicaragua	2
Russia	1
Scotland	2
Spain	3
Switzerland	1

SUMMARY.

United States	284
Foreign Countries	81

The amount of work performed in the Operative and Mechanical branches has been as follows:

OPERATIVE.

Number of operations	22,935
Number of patients	12,275

MECHANICAL.

Number of operations, including crown-and-bridge and technic work	5,290
Amount of gold used for fillings, exclusive of that used in mechanical work	85 Ozs.
Number of students in the graduating class	131
Number of students who received the degree.....	122

It will be seen from the foregoing figures that the total number of matriculates for the season of 1901-02 is considerably less than the total number for the preceding session. Two causes have operated to bring about the deficiency. First, and mainly, the rearrangement of the curriculum of the first and second years of the course made necessary by the introduction of the so-called "concentration system" in teaching the subjects fundamental to both dentistry and medicine, which subjects are taught concurrently to the first- and second-year classes of both departments; and, secondly, the maximum standard of entrance requirement contemplated by the Faculty having been attained at the beginning of the session of 1900-01, the total number of matriculates for the first-year class of that session was relatively less than in previous years, and that fact necessarily brought about a corresponding reduction in the number of the second-year class for the following session.

The limiting effect of the maximum entrance standard is fully compensated by the improved intellectual training and character of the applicants for admission, but the system of instruction in the elementary branches of medical science would seem to need further adjustment to the end that the present large proportion of failures to advance in course from the first to the second year shall be reduced to a reasonable proportion. The essence of the difficulty seems to be not in the amount or extent of subject-matter which the student

is required to learn, but in the time which, under existing rules, is assigned him for the work. As stated in my previous report, the concentration system, while adapted to the capacity of the more brilliant students, is evidently unsuited to the successful training of those having a fair average mental capacity.

In this connection I desire to call attention to the fact that while dentistry is a recognized department of the science and art of healing, it is not a department of medicine in the more restricted sense in which that term is used to designate the training furnished by the curriculum leading to the degree of M.D.

Dentistry is a separate and special profession requiring for its successful practice a specialized training based in a large degree upon those elementary sciences which are common to both medicine and dentistry. The specialization of the dentist's training should begin early in his course; and while the study of general anatomy, physiology, pathology, bacteriology, etc., are essential fundamentals upon which to build his professional training, the specialization of these subjects with reference to their application to dental practice are the vital ends of a well-ordered curriculum. It is with reference to supplemental instruction in the dental aspects of these subjects that ample provision should be made.

The session of 1902-03 will close the career of the three years' curriculum in dentistry, and inaugurate the four years' course. The latter will afford not only a much needed opportunity for the more thorough training of the student in all of the subjects which are now included in the standard curriculum, but will also make possible a reorganization and extension of the curriculum to include several important subjects which the lack of time and opportunity have heretofore rendered impracticable. In view of the near approach of the four years' course, I would ask attention to certain questions which this radical advance will evidently raise in

connection with the practical educational work of the Department under the new conditions.

First, as to the material aspect of building and equipment. The present facilities of Dental Hall are, even under existing conditions, no more than are urgently required for the accommodation and training of the three classes that now occupy it. Under the four years' curriculum an additional class will have to be provided for, representing an estimated increase of twenty-five per cent. in the total student body. It would seem wise, therefore, that the Trustees should consider the advisability of a substantial addition to the present building and equipment, or else provide for certain radical changes in the interior arrangement of the building, to render it suitable for the enlarged uses which an additional class will necessitate. The additional facilities here suggested are based not only upon the evident need for the physical accommodation of an additional class of students, but more particularly upon the need for enlarged facilities to carry on the work of instruction in the several new subjects of the curriculum which the added fourth year will entail. More class-rooms and special laboratories are even now urgently needed, and with the advent of the fourth-year course will become a *sine qua non*. Certain other considerations tend to emphasize the need for additional room and facilities in connection with the educational work now carried on in Dental Hall.

I am gratified to be able to report an increasing interest in original research work among advanced students and recent graduates of the Department. Indeed, with the facilities now at hand considerable work of this character highly creditable to the University has been carried out during the past session. In addition to the growing interest manifested in research work by our own students and graduates, applications are frequently made by practitioners and others for opportunity to conduct special researches in connection with

the laboratories of the Department. The usefulness of the Department to the dental profession in general, and its reputation as a scientific educational institution, could be greatly enhanced were it possible to offer reasonable facilities in the direction referred to. Additional room is needed for the orderly arrangement and exhibition of its museum material. Many cases of valuable teaching material given to the Department remain unpacked and of no present teaching value owing to the lack of room for effective display. Through the efforts of friends, students, and alumni a library endowment fund, now amounting to about one thousand dollars, has been collected with a view to establishing in Dental Hall a working technical library of dental publications so soon as provision can be made for the housing and care of such a collection.

I would suggest the advisability of providing means for a closer relationship between the Department of Dentistry and the general administration of the University by the appointment of a Committee of the Trustees especially charged with a supervisory relation to the Department. The development of dental education as a whole in the past decade, and the evolution of the curriculum leading to the dental degree, involving as it has radical changes in the character and scope of instruction as well as in methods of training, are factors which have tended to specialize dentistry to a point where it would seem desirable that this department of university inquiry should be individualized in its representation in the Honorable Board of Trustees by a special committee familiar with its work.

I am glad to be able to report that the chair of Prosthetic Dentistry and Metallurgy, made vacant by the resignation of the late Professor Charles J. Essig, has been acceptably filled by the selection and appointment of Professor Charles Root Turner, D.D.S., M.D., of the University College of Medicine, Department of Dentistry, Richmond,

Va., in which institution he has for the past two years held an analogous position. Dr. Turner is an Alumnus of the Department of Dentistry, University of Pennsylvania, is familiar with its methods and aims, and brings to his work the added experience of a successful teacher in his especial branch.

In this connection I desire to commend the work done by Dr. A. DeWitt Gritman, chief instructor in prosthetic dentistry, who, in connection with Dr. James G. Lane and assistants, has creditably carried on the instruction of prosthetic dentistry during the past session pending the election of Dr. Turner as professor in charge of that department.

I am pleased to report that the favorable recognition accorded to this Department in foreign countries continues unabated. Over twenty-eight per cent. of the total number of matriculates for the past session were from foreign countries,—eleven of the number coming for post-graduate study. As further evidence of the status of the institution abroad, the licensing bodies of Great Britain and Ireland accept upon certificate and exempt from re-examination applicants for their license who have credit for work done in this Department in the fundamental branches of the British Dental Curriculum.

The Department of Dentistry has received a valuable donation from Professor J. Foster Flagg, of Swarthmore, Pa., consisting of all the illustrative models, material, etc., used by him in the illustration of his lectures for many years as professor of dental pathology and therapeutics at the Philadelphia Dental College.

A collection of dental instruments, etc., belonging to the late Peter Ebert has also been presented to the institution by his widow, Mrs. Margaret Ebert; and a collection containing many interesting specimens of early dental instruments, pathological specimens, minerals, books, etc.,

belonging to the late Professor C. A. Kingsbury was acquired by purchase from the executor of his estate. All of the foregoing are of much historical as well as educational value.

Respectfully submitted,
EDWARD C. KIRK,
Dean.

APPENDIX IX.

REPORT OF THE DEAN OF THE FACULTY OF VETERINARY MEDICINE.

To the Provost of the University;

SIR:—I have the honor to present to you the following report on the Department of Veterinary Medicine for the scholastic year 1901-1902.

During the year there were seventy-eight (78) students in the Veterinary School, divided among the classes as follows:

Students of the Third-year Class	23
Students of the Second-year Class	22
Students of the First-year Class	29
Special students	4
	—
Total	78

This is an increase of seventeen over the previous year, when the attendance was sixty-one.

Of the new students, five were from Harvard University. The Harvard students came to us because the Veterinary Department there is suspended for the present.

The School is now occupying temporary quarters that have been fitted up in an old building on the grounds purchased for the new School. The temporary building is used chiefly for clinical instruction, dissecting, gross pathology, farriery, operative surgery, botany, zoölogy, and for lectures in the various subjects that require proximity to the wards and collections. For other subjects of instruction, lecture-rooms and laboratories are used in Medical Hall and in the Medical Laboratory building. It has not been possible to

enlarge the field of instruction nor to improve the curriculum during the past year. In fact, since the facilities for instruction in the practical and strictly veterinary branches are not as good as were formerly available, it has been extremely difficult to keep the work up to a satisfactory standard.

The Dean of the School was sent abroad during the summer of 1901 to visit the newest and best veterinary schools and hospitals in Europe, for the purpose of obtaining plans and suggestions for use in designing the new buildings that are to be erected for the use of the Veterinary School and Hospital at Thirty-ninth and Woodland Avenue. This new site that has been purchased for the Veterinary School is admirably adapted to the purpose, and is sufficient to accommodate a better building and equipment for this use than now exists anywhere in America.

Ever since the establishment of the School it has felt the need of a collection of books on the veterinary sciences. The students and alumni have contributed small amounts from time to time to supply the most urgently needed books, but there has never been a creditable veterinary library. It is, therefore, with much satisfaction that I announce that in May the library of the late Dr. Rush Shippen Huidekoper was generously presented to the Department of Veterinary Medicine by Dr. Thomas B. Rayner, of Chestnut Hill, as a memorial to his son, Moncure R. Rayner, who died while he was a student in the Veterinary School. This large collection of English and foreign veterinary works makes an excellent nucleus for what it is hoped will become a notable veterinary library.

The support and development of the School is a matter that has given its faculty and friends the greatest concern. Notwithstanding the fact that the United States is the greatest live-stock producing and exporting country in the world, and that the live-stock industry is by far the greatest industry in the country, the support that veterinary schools have thus far been able to obtain has been but meagre. As

a class, the veterinary schools of this country are poorly equipped and insufficiently supported. The only exception to this is the New York State Veterinary College at Cornell University. As a result of this condition but little original work in the veterinary sciences is done in America; and since there is so little opportunity, there are few men who have had enough training to make them capable of doing it well.

In consequence, the live-stock industry suffers astounding losses that might well be prevented if more and better-trained men were engaged in veterinary work. Aside from the loss from preventable diseases, the average efficiency or earning power of the domestic animals of the country might be considerably increased. It is the function and duty of the veterinary schools to furnish the methods and train the men to prevent these losses and to develop this enormous property. It is necessary that this work shall be done under such auspices, for the ownership of live-stock is so divided that no individual has enough property at stake to justify him, from a business stand-point, in making or supporting the investigation that may be necessary to afford relief. The situation is entirely different from that governing large industries that are capable of being consolidated.

The comparative neglect of the veterinary schools in the United States is a marked contrast to the attention they receive in Europe. Belgium is a small country, and its animal husbandry is insignificant when compared to that of the United States. Still, the Veterinary College in Brussels is now being reëquipped with about fifteen buildings upon a beautiful site of nearly twenty acres in the outskirts of the city at a cost of 5,000,000 francs. All of the veterinary schools in Germany are being enlarged and improved. The equipment of the Veterinary School in Berlin has just been supplemented by the erection of a laboratory of hygiene costing 400,000 marks, and an anatomical building costing

500,000 marks. The Veterinary School at Hanover is using a new set of buildings that were completed two years ago at a cost of 3,000,000 marks. The Veterinary School at Budapest has an equipment of buildings and apparatus almost as modern and quite as extensive. The Veterinary School at Berne has recently received a complete new set of buildings, and has been attached to the University as a department.

These foreign schools are not only well equipped, but they are well supported. The volume of good work that they are turning out and the highly efficient men that they are training are in sharp contrast to the feeble efforts of the veterinary schools in this greatest of all stock-raising countries.

There can be no doubt that the work of the Veterinary Department of the University of Pennsylvania will become better and stronger when it has such an opportunity to develop as will be provided in the new building. All connected with the School are eagerly awaiting the time for removal from the present temporary quarters.

The laboratory of the State Live-Stock Sanitary Board was removed from the Veterinary School buildings to the Pepper Clinical Laboratory, when it became necessary to vacate the premises formerly occupied by the School. It is indeed fortunate that it has been possible for this work to continue without interruption. This laboratory is becoming the reference laboratory for veterinarians in all parts of the State, and many specimens are sent to it for examination and diagnosis. By this means the efficiency of the veterinarians of the State is materially increased, to the sanitary and economic advantage of the Commonwealth.

A rather remarkable volume of original work has been conducted in this laboratory by Dr. M. P. Ravenel and his associates, and it is now generally admitted that this is the most productive laboratory of its kind in this country, excepting that of the United States Bureau of Animal Indus-

try at Washington; and that none has recently contributed more to advance our knowledge of animal diseases than the laboratory in question. Investigations are now under way that promise to reveal a practicable method for immunizing cattle against tuberculosis.

Respectfully submitted,

LEONARD PEARSON,

Dean.

APPENDIX X.

REPORT OF THE LIBRARIAN.

To the Provost of the University;

SIR:—I have the honor to present the report of the University Library for the year ending August 31, 1902.

An event of importance during the year was the announcement made last spring that the Library had been made a depository to receive the printed catalogue-cards now being prepared for the collection of the Library of Congress. It is expected that these cards will be printed at the rate of sixty thousand a year, and when completed this catalogue will place at our disposal a record of practically all the books copyrighted in the United States, in addition to the extensive purchases of foreign books now being made by the Library of Congress. In order to accommodate this catalogue, which promises to be a valuable bibliographical help, it was decided by the Library Committee to utilize the present catalogue-cases, and to provide for our rapidly increasing cards new cases of the improved pattern introduced by the Library Bureau. The new cases, which appear to give general satisfaction, have been placed in the positions occupied by the old catalogue-drawers, while the latter have been transferred to the wall behind the receiving-desk.

The present number of books in the main library is 183,711 volumes, which represents an addition during the year of 10,961 volumes. The Law Library has received during the past year 3,136 volumes, making a total for that collection of 29,150. Adding this to the above figure, the University now possesses a library of 212,861 catalogued

volumes, besides upward of 50,000 of assorted but uncatalogued pamphlets.

With the aid of a special cataloguing force engaged for a period of three months, we were enabled during the past year to dispose of the accumulation of past years, so that at present the cataloguing is up to date with the exception of a portion of the Brinton Library and of a Veterinary Library of some 2,000 volumes which has recently been presented, and for the cataloguing of which special provisions will probably have to be made.

Of the books catalogued during the past year 6,365 were obtained by purchase, 3,295 as gifts, 305 volumes were received through the Exchange Bureau; 430 were United States Government documents; 566 were volumes of a miscellaneous character, representing chiefly books gathered by various departments and sent over to the Library. Included in the items purchased are 2,665 volumes reported last year but which had not then been catalogued. Subtracting this number, we obtained 3,700 volumes as the actual purchases made during the past year, representing an expenditure of \$9,800.58; in addition, \$1,897.87 was spent for binding periodicals, gifts, etc., making a total for books and binding of \$11,698.45. Of the regular funds (Agriculture, Krauth, Lippincott, Norris, Pepper, and Wagner), which furnish an annual income of about \$1,500, there was spent \$1,941.43, the excess over the income being covered by balances remaining in these funds from previous years.

Out of the George L. Harrison Foundation, which represents a maximum appropriation of \$100 for each Fellow appointed, there was spent \$854.07; from special funds at the disposal of the Library, representing in part gifts previously reported, \$2,747.90; from a fund obtained through the sale of duplicates, \$22.99; from an appropriation from the Board of Trustees for subscriptions to periodicals, \$1,200.25; from a special fund of \$1,000 for additional subscriptions to periodicals, \$999.96; from a special fund

of \$2,000 for the purchase of books, \$1,733.35 was expended up to August 31, 1902, and from lapsed balances from former special appropriations for books, \$222.22.

The distribution of the additions according to classes is as follows:

General works	675
Philosophy	943
Religion	562
Sociology and Economics	1,727
Philology	310
Natural Sciences	853
Useful Arts	1,067
Medicine	1,079
Fine Arts	405
Literature	1,391
History	1,068
	<hr/>
Total	10,080

It should be noted that this table includes only such books as have gone through the complete process of cataloguing up to the date of this report, so that there is a discrepancy between this number and the actual number of accessions.

EXCHANGE BUREAU.

Through the Exchange Bureau we received 3,055 volumes. The smaller number of volumes as compared to those reported last year (4,715) is not due, however, to any actual decrease, but to the fact that the theses of foreign universities were received somewhat earlier last year and could therefore be included in the report. As a matter of fact, the number of institutions that regularly send us their publications is considerably larger than before, and it is gratifying to know that the value of what comes to us now through the Exchange Bureau is likewise growing steadily from year to year. With the aid of the Publication Committee, the Library is extending its relationship with the Universities and Learned Societies in this country and

abroad, and much time and effort were spent during the past year in an endeavor, which is still being continued, to complete our files of publications of these institutions and societies. As in former years, the United States Government has forwarded regularly its official publications, and we have also received, as in former years, official documents from various foreign governments; the state documents from most of the States of the Union and from the leading municipalities, besides the reports of railroad corporations, reports and bulletins of libraries and of miscellaneous institutions.

The tabulated list on page 123 represents in detail accessions received from the sources named.

CATALOGUING.

There were catalogued in all during the year 13,890 volumes, besides 1,579 pamphlets and 2,139 dissertations; the excess of this number over the actual number of accessions during the year represents volumes accessioned before August 31, 1901, but not catalogued. Of the total number of volumes catalogued, 8,518 were done by the regular force as follows:

Date.	Works.	Volumes.	Cards.	Pamphlets.	Dissertations.
Aug. 26 to Sept. 21, 1901.....	339	706	2,119	240	
Sept. 23 to Oct. 26, 1901.....	293	737	3,230	11	358
Oct. 28 to Nov. 23, 1901.....	291	741	3,210	370	198
Nov. 25 to Dec. 28, 1901.....	299	725	3,480	85	230
Dec. 30 to Jan. 25, 1902.....	311	548	3,295	237	351
Jan. 27 to Feb. 22, 1902.....	206	533	2,602	...	346
Feb. 24 to March 22, 1902.....	144	500	3,165	22	270
March 24 to April 26, 1902....	456	925	4,934	...	335
April 28 to May 24, 1902.....	448	1,009	3,171	47	51
May 26 to June 21, 1902.....	261	734	2,793	29	
June 23 to July 26, 1902.....	337	679	1,566	538	
July 28 to Aug. 23, 1902.....	109	681	1,313		
Total	3,494	8,518	34,878	1,579	2,139

	Sept.		Oct.		Nov.		Dec.		Jan.		Feb.		Mar.		Apr.		May.		June.		July.		Aug.		Total.	
	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.	b.	ub.
United States Government...	14	5	15	16	23	18	21	10	31	13	18	8	10	8	34	5	4	24	18	26	38	18	10	...	236	151
Foreign Governments .....	...	...	...	...	...	1	...	8	4	5	...	...	...	13	...	2	1	20	...	2	...	25	...	1	5	77
State.....	4	2	9	7	6	...	14	9	7	1	7	...	9	11	10	8	11	2	1	...	9	2	6	...	93	42
Municipal.....	3	1	4	2	...	1	...	2	3	1	...	5	3	3	1	...	2	1	5	1	5	2	...	1	26	20
United States Universities...	...	20	1	38	2	77	1	8	2	16	4	11	4	36	...	27	2	18	1	52	2	84	...	20	19	407
Foreign Universities.....	...	7	3	381	...	250	...	775	1	20	...	3	...	...	...	663	2	85	...	11	3	115	...	4	9	2314
Schools and Educational Societies .....	...	...	...	...	...	...	...	...	1	4	...	1	...	5	...	...	...	4	...	8	...	1	...	...	1	23
United States Academies and Learned Societies .....	...	1	3	20	3	10	...	1	3	1	...	6	...	5	...	...	1	4	...	8	1	1	2	...	13	57
Foreign Academies and Learned Societies.....	...	1	2	35	1	11	...	33	...	7	...	2	...	4	...	2	1	5	...	4	...	2	2	2	6	108
Libraries	1	4	...	1	...	4	...	1	...	2	1	9	...	8	...	...	...	...	7	1	34	...	1	3	71	
Hospitals and Charitable Institutions .....	...	54	...	...	...	...	1	...	1	...	...	...	3	...	...	...	2	...	...	...	1	1	...	1	62	
Religious Organizations.....	...	3	...	1	...	2	...	1	...	...	...	...	3	...	...	...	4	...	5	...	3	...	...	...	22	
Social Clubs.....	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	2	1	...	...	...	...	4	2	
Miscellaneous.....	2	...	...	4	...	3	...	1	...	1	...	2	...	...	2	...	5	1	5	1	3	...	...	4	26	
Railroads.....	2	4	...	108	...	11	...	3	...	2	...	...	3	...	1	...	8	...	...	2	...	...	2	...	2	142
Total.....	26	102	37	613	35	388	36	853	52	74	30	47	27	102	45	710	24	182	28	131	61	293	21	29	422	3524

Through a special fund for cataloguing the accumulations referred to at the beginning of this report 5,372 volumes were catalogued, as follows:

Date.	Works.	Volumes.	Cards.	Pamphlets.
Dec. 16 to 28, 1901.....	866	1,496	3,061	
Dec. 30 to Jan. 25, 1902.....	1,535	2,224	6,587	
Jan. 27 to Feb. 15, 1902.....	1,457	1,652	5,623	173
Total	3,878	5,372	15,271	173

The actual work done by our own force was larger than that reported last year, as is shown by the total number of cards, 34,878, as against 27,542 prepared during the previous year.

Despite the fact that most of the books purchased abroad are bound before being sent to this country, the Binding Department was unusually active during the past year, in consequence of the large number of gifts received, many of which came to us unbound.

The following table shows the work done in this department:

Date.	
Aug. 26 to Sept. 21, 1901.....	492
Sept. 23 to Oct. 26, 1901.....	282
Oct. 28 to Nov. 23, 1901.....	320
Nov. 25 to Dec. 28, 1901.....	495
Dec. 30 to Jan. 25, 1902.....	375
Jan. 27 to Feb. 22, 1902.....	190
Feb. 24 to March 22, 1902.....	933
March 24 to April 26, 1902.....	540
April 28 to May 24, 1902.....	444
May 26 to June 21, 1902.....	615
June 23 to July 26, 1902.....	467
July 28 to Aug. 23, 1902.....	437
Total	5,590

It should be added that the total includes 752 volumes sent to be repaired.

CIRCULATION DEPARTMENT.

The registration of readers was taken after the close of the scholastic year, so that it does not include the students who were graduated in June or who left the University at that time; nor does it include a considerable number of students who withdrew their deposits at the beginning of the summer vacation, and whose names were accordingly removed from our lists until the deposit should be made again. In order, therefore, to give a fair indication of the total number of students who have made use of the Library during the past year, there should be added to the following registration list about 350.

OFFICERS OF THE UNIVERSITY.

Professors and Instructors	108
College	409
Medical Department	73
Law Department	92
Dental Department	6
Veterinary Department	2
Department of Philosophy	132
Fellows	15
Teachers	101
	<hr/>
	938
Special readers	29
Readers paying \$3.00 a year	8
Employees of the University	31
	<hr/>
Total	1,006
Estimated additional	350
	<hr/>
	1,356

The number of books circulating during the year amounted to 52,623, as against 68,003 last year (of which 18,736 were for home use) and 49,267 of two years ago. The detailed statistics are as follows:

Date	Home use.	Library use.	Total.
Aug. 26 to Sept. 21, 1901.....	427	208	635
Sept. 23 to Oct. 26, 1901.....	1,904	2,959	4,863
Oct. 28 to Nov. 23, 1901.....	1,945	5,125	7,070
Nov. 25 to Dec. 28, 1901.....	2,082	4,040	6,122
Dec. 30 to Jan. 25, 1902.....	2,054	4,231	6,285
Jan. 27 to Feb. 21, 1902.....	2,254	3,030	5,284
Feb. 24 to March 22, 1902.....	2,325	3,633	5,958
March 24 to April 26, 1902.....	2,487	4,227	6,714
April 28 to May 24, 1902.....	1,867	3,127	4,994
May 26 to June 21, 1902.....	939	1,464	2,403
June 23 to July 26, 1902.....	752	644	1,396
July 28 to Aug. 23, 1902.....	415	484	899
Total	19,451	33,172	52,623

The circulation of books according to classes is as follows:

	Home use.	Library use.
General Works	466	4,682
Philosophy	590	319
Religion	902	827
Sociology and Economics	2,836	6,527
Philology	961	720
Natural Sciences	1,141	3,177
Useful Arts	473	786
Medicine	680	2,376
Fine Arts	120	135
Literature	8,311	6,998
History	2,971	6,625
Total	19,451	33,172

The number of books borrowed from other libraries were:

Columbia University	22
Harvard University	17
Mercantile Library	6
Philadelphia Library Company	29
Surgeon-General's Library	7
Philadelphia Free Library	13
Bryn Mawr College	1
Drexel Institute	2
Total	97

Institutions that have borrowed books :

Bryn Mawr College,
Johns Hopkins University,
Drexel Institute,
Princeton University,
Free Library of Philadelphia,
Philadelphia Library Company,
Cincinnati University,

Haverford College,
Swarthmore College,
Ursinus College,
University of Texas,
Lehigh University,
Iowa University,
Lincoln University.

It will be observed that while there has been a slight increase in the number of books taken out for home use, there has been a falling off in the circulation of books within the Library, due chiefly to two factors: (1) to changes in the courses given in certain departments of the College, and (2) to the fact that the books needed by College students during the past year were almost all placed in the reference-alcoves where no actual registration of the use can be made. The opening of an additional departmental library, that of Physics, and the better facilities afforded in some other departmental libraries, may also have been factors in reducing the use of books within the Library building.

During the summer considerable changes were made in the arrangement of books in the stack to facilitate the finding of books; certain classes which had become inordinately crowded were shifted, while others that were not in frequent use were transferred to the upper story.

During the year an attendant was added to the Library force whose duties consist in devoting her whole time to stock-taking, which can thus be carried on without interruption from the beginning to the end of the year. One class after another is gone over, misplacements noted, and a diligent search made for missing books. With the possibility thus afforded of securing a more complete control of the stack, our losses have been reduced to a trifling number.

The statistics of the inner reading-room are as follows:

Sept. 27 to Oct. 26, 1901	2,937
Oct. 28 to Nov. 23, 1901	3,498
Nov. 25 to Dec. 28, 1901	3,137
Dec. 30 to Jan. 25, 1902	3,105
Jan. 27 to Feb. 22, 1902	2,611
Feb. 24 to March 22, 1902	3,511
March 24 to April 26, 1902	3,807
April 28 to May 24, 1902	3,153
May 26 to June 21, 1902	1,259
Total	27,118

The total of 27,118, as against 28,134 of the year before, shows a falling off due to the same causes that have affected the general circulation of books within the Library.

The room in the hall fitted up for students who wish to study together has been largely used during the past year, the total registration being 4,667, and has effected one of its main purposes, namely, that of procuring the necessary silence in the reading-rooms proper.

The books in the reference-alcoves and along the walls of the inner reading-room, amounting in all to 9,731, are constantly examined and losses at once reported. Despite this care, and the appeals made from time to time by the professors and in the columns of the *Pennsylvanian* for the return of missing books, the records show that ten books have disappeared from the alcoves. While the loss may not seem large, it is yet distressing to find that the Library should lose books in this way, either through the carelessness of readers who neglect to have books registered and fail to return them, or through the wilful and deliberate removal of University property.

The number of periodicals now received and placed on file in the outer reading-room or in the Departmental Libraries amount to 1,082, divided as follows: by purchase, 624; through the Exchange Bureau, 82, and by gift, 376.

DEPARTMENTAL AND SEMINAR LIBRARIES.

Thirteen thousand three hundred and sixty-nine volumes are now deposited in thirteen Departmental Libraries outside of the Library building, distributed as follows:

American History	261
Architecture	777
Assyrian	26
Astronomy	954
Botany	1,197
Chemistry	1,066
Civil Engineering	1,193
English	651
Hygiene	777
Mechanical Engineering	824
Physics	1,652
Psychology	900
Zoölogy	3,091
Total	13,369

In addition there are 9,011 volumes placed in the eleven Seminar Libraries within the Library building, distributed as follows:

American History	142
Ecclesiastical History	471
Economics	505
English Constitutional History	611
Latin	133
Mathematics	677
Music	738
Pedagogy	259
Philosophy	304
Romance Languages	1,537
Semitic Language	11
Germanic Languages	3,623
Total	9,011

It has not been found feasible to secure accurate statistics covering the use of the books in Departmental Libraries, but from such statistics as are forthcoming regarding

the circulation it is evident that constant use is being made of the collections, though largely within the buildings in which they are housed.

The books in the Seminar Libraries within the Library building are exclusively used within the rooms in which they are deposited and, as last year, the rooms were kept open every evening until eleven o'clock.

The books in the Seminar Libraries are examined at frequent intervals, and those in the Departmental Libraries at least once a year. It is gratifying to announce that but one book has disappeared from the Seminar Libraries, but the report from the Departmental Libraries is less encouraging. In all twenty-nine books are reported as lost, distributed among the departments as follows:

Botany	1
Chemistry	1
Civil Engineering	9
English	4
Physics	4
Psychology	4
Zoölogy	6
Total	29

In view of the disappearance of so many books, it was thought advisable by the Library Committee to hold a special meeting, to which the representatives of the various Departmental Libraries were invited for the purpose of considering the question of responsibility for the books that thus disappear. After full discussion of the subject, the decision was reached that beginning with September 1, 1902, the departments, as such, would be held responsible for books lost by them. It was also agreed that losses should be made good to the Library. Some of the books reported missing last spring have been found, and it is hoped that the above number may be still further reduced.

GIFTS.

As in former years, the Library has been enabled through special gifts to make extensive purchases, largely with a view of filling up gaps existing in various sections. Besides the regular donation of \$3,000, which, as during the past seven years, was placed at the disposal of the Library (\$2,000 for books and \$1,000 to defray the cost of subscriptions to periodicals), a special fund was obtained through the Provost of the University amounting to \$3,500 for the purpose of completing our periodical collections in Mathematics, Chemistry, and Medicine. Through these funds, eight important mathematical series, seven medical, and two chemical periodicals have been completed, and the balances remaining in this fund will be used towards further efforts in the same direction. For the advanced students, and for the work of the professors themselves, it is of the utmost importance to have complete sets of the technical periodicals covering the various branches of scholarly activity. Considerable progress has been made during the past years in improving this division of the Library, and a continuance of these efforts for a few years longer will result in greatly facilitating the researches of professors and advanced students, who naturally look to the library to supply them with the needed material.

A gift from Mr. Robert C. H. Brock was used to complete three important documentary publications indispensable to students of English history; and it is a satisfaction to announce that the University now possesses a complete set of the Chronicles and Memorials of Great Britain, and an almost complete set of the Calendars of State Papers, while considerable additions have been made to the third series, known as the Public Record Commission.

A gift of \$350 was obtained from Miss Mary Paul and Dr. James Paul, and a sum of \$275 from Mr. John T. Morris for the purchase of works on Botany, which was ex-

pended chiefly in completing periodicals and serial publications and for the purchase of some rare and important works.

As in former years, the Hon. William Potter defrayed the cost of the subscription to Hansard's "Parliamentary Debates," and further purchases were made out of the fund donated by Miss Mary K. Gibson for English Government publications.

Early in the spring the announcement was made that Dr. Thomas B. Rayner had purchased for the University the Veterinary Library of the late Dr. Rush Shippen Huidekoper, as a gift in memory of his son, Moncure R. Rayner, who died while a student in the Veterinary Department. This library consists of about two thousand volumes, and is regarded as one of the best collections in Veterinary Medicine. All the important periodicals are represented, as well as a large number of general works, monographs, and articles. Hitherto the Library has had scarcely any books whatever on this subject, and it is safe to predict that the valuable collection now in our possession will, when catalogued, be of great service to the students of Veterinary Medicine.

Mrs. Charles J. Stillé donated a portion of the historical library of her late husband, Dr. Charles J. Stillé, former Provost of the University, representing such books as the University Library did not already possess. Mrs. Stillé has followed up this gift with a donation of \$1,000, to be invested as part of a permanent fund, the interest of which is to be used for making additions to the Library in General and Mediæval History. A special book-plate has been prepared, and the books presented by Mrs. Stillé, as well as those to be purchased out of the memorial fund, will be designated as "The Charles J. Stillé Library of General and Mediæval History." This endowment of a division of the Library will serve to perpetuate the memory of the distinguished scholar who rendered such valuable services to

the University in his double capacity as Provost and Professor.

Among other gifts received during the year was the musical library of the late Dr. William Camac, presented through Mr. William M. Camac as a gift of his sister, Mrs. Mary Eva Camac Lewis. The library consists of several hundred volumes, and will form a most valuable addition to our collection in Music. Further additions to the collection in Music were made through the late Dr. William F. Norris. A number of volumes were received from the estate of the late Samuel J. Randall and from that of Thomas F. Donaldson, and also a portion of the library of the late Dr. Wittig, presented by his daughter, Mrs. F. W. Steinbeiser.

Dr. Benjamin Lee sent a complete set of the old French Encyclopedia in thirty-five volumes; from Miss Esther White Harrison the Library received a handsome edition of the works of Victor Hugo, in forty-eight volumes; several hundred books and pamphlets were sent by the Presbyterian Historical Society of this city, many of them bearing on the history of slavery in this country; the Royal Society of Edinburgh sent thirty-one volumes of its "Transactions," completing our set, and has agreed to send us regularly its future publications.

Yale University sent the Library a set of the publications issued in commemoration of its bicentennial celebration. From numerous scholars in this country and abroad copies of their recent publications have been received, and additions to the Text-Book Library have been made by the American Book Company, Scribner's Sons, Houghton, Mifflin & Co., and Silver, Burdette & Co.

Among the regular donors to the Library may be mentioned, as in former years, Provost Harrison, Dr. S. Weir Mitchell, and Mr. J. G. Rosengarten; the latter, in addition to miscellaneous volumes, made a contribution of \$100 for the purchase of certain rare editions of old English plays

which were needed for research work in the English Department. It is impossible in this report to mention all those who have remembered the Library during the last year, but it may be appropriate to refer especially to the generosity with which professors and instructors of the University have forwarded to us their publications; and to likewise record our indebtedness to the medical publishers of this city, Messrs. W. B. Saunders, Lea Brothers & Co., the J. B. Lippincott Company, P. Blakiston's Son & Co., who have regularly forwarded to the Library their new publications in medicine.

In closing this report it may be proper to take note of several projects now under way looking to a better endowment of the Library. The alumni and friends of the Dental Department have undertaken to raise a fund of \$4,000, the interest of which is to be used for the purchase of books pertaining to Dentistry. Of this sum about \$1,000 has been secured, and the efforts are being continued. The number of dental books in the library is exceedingly limited, and while we now regularly obtain, thanks chiefly to the generosity of the publishers, some of the more important dental periodicals, the dental students cannot at present find the material needed by them for their studies.

At the annual meeting of the College Alumni Society, held last June, a committee was appointed to raise a fund of \$5,000 in memory of the late Professor F. A. Jackson, the interest of which is to be used for the purchase of books pertaining to the Latin Language and Literature, the collection so obtained to be known as the "Jackson Memorial Library." A nucleus of this fund is forthcoming through a sum of about \$1,100 which remained at the time of Professor Jackson's death as a balance of a fund collected by him some years ago for the purchase of the Leutsch Classical Library. It has been decided by the trustees of this fund to turn the amount over to the Alumni Society as a part of the proposed memorial. Several promises of subscrip-

tions have been received, and it is hoped that by the time of the annual meeting of the Society in June, 1903, the amount required will have been secured. Announcement has also been made that the alumni of the Veterinary Department propose to collect a fund to enable the Library to make additions to the "Rayner Memorial Library" to which reference has above been made. About \$300 have been secured, and it is hoped by those interested to raise the amount to about \$2,000.

These endeavors to increase the usefulness of the Library are most gratifying, and if successful will greatly assist the administration in making the University Library what it properly ought to be, a centre for research work in this city. Besides our own professors and students, the numerous private scholars in this city and vicinity, as well as those connected with other institutions near Philadelphia, look to the University Library for aid in their work; and if we are to meet the steadily growing demands made upon us, it is imperative that means be found to increase the regular income of the Library for the purchase of books.

Respectfully yours,

MORRIS JASTROW, JR.,
Librarian.

APPENDIX XI.

REPORT OF THE SECRETARY OF THE DEPARTMENT OF ARCHÆOLOGY.

To the Provost of the University;

SIR:—The growth and development of the Department of Archæology have steadily continued during the year. The list of contributors shows an increase of 152, making a total of 993 subscribers. Thirty-six thousand one hundred and twenty persons have visited the Museum during the scholastic year. The Sunday attendance has been unusually large, reaching as high as 778 visitors. This is probably due to the Sunday afternoon addresses delivered by Professor Maxwell Sommerville in the Buddhistic Temple Hall; and also to afternoon lectures delivered by Dr. Clay in the Widener Lecture Hall under the auspices of the University Christian Association. It is hoped that both of these series may be continued during the coming winter, having been found attractive as well as of practical value to the public.

As in the preceding years, the building has been used for receptions.

On January 31 the Provost and Mrs. Harrison gave their usual reception to the first-year students. A "Faculty Tea" was held at the Museum, and on October 22 a reception was given by the Lutheran Social Union, the building having been placed at its disposal for the purpose. On April 3 a reception was given by the Department of Archæology to the American Philosophical Society on the occasion of its General Meeting. This was a notable event and brought

together an impressive gathering of the most representative scientific men in the country. Prior to the reception addresses were delivered by Daniel C. Gilman, President of the Carnegie Institute, and by H. S. Pritchett, of the Boston Institute of Technology.

A reception was tendered by the Egyptian and Mediterranean Section of the Department (March 1) to Miss Harriet A. Boyd on her return from Crete. Before the reception, Miss Boyd gave to a crowded audience an account of her excavation at Gournia during the preceding spring, and of her discovery of a Mycenean town. The work was carried on under the auspices of the American Exploration Society in the interest of the Department. The site was then only partly cleared, and the work will be continued during the coming season.

In consequence of the resignation of Mr. R. C. H. Brock from the Board of Managers of the Department, the Section of American Archæology and that of General Ethnology, which recently had been divided, have been once more united under the chairmanship of Mr. Samuel T. Bodine.

The most important additions made this year to the American Section have been a collection of masks, dolls, and ceremonial objects from the Zuñi Indians, collected by the Curator of the Section on an expedition to the Southwest undertaken in February and March with funds provided by Mr. R. C. H. Brock. Among other valuable objects, a very perfect prehistoric throwing-stick was obtained from the Lukachukai mountains in Arizona. The Duc de Loubat has very generously presented to the Museum several fac-simile reproductions of Mexican Codices. The John Wanamaker Collection has been in part arranged and placed on exhibition.

The collection illustrative of the ethnology of the Ainu of Jesso—the gift of which, by Dr. H. M. Miller, was re-

ported last year—has been installed in new cases constructed for the purpose, as well as part of the Sumatran collection presented by Alfred C. Harrison, Jr., and Dr. Hiller. Mrs. Lucy Wharton Drexel has added to her collection of fans two flabellæ received from His Holiness, Pope Leo XIII., which have been installed in cases made especially for them; and Mrs. Wm. D. Frishmuth has also made numerous valuable additions to the collection of musical instruments presented by her to the Museum.

Much systematic work has been done in arranging the collection of coins presented by Mr. R. C. H. Brock. The Chinese, Japanese, and Korean series, numbering 3274 specimens, have been labelled and placed on exhibition. The most important addition made during the year, however, is a fine and well known collection of Arabic gold and silver coins obtained by Mr. Brock from Yakub Artin Pasha, of Cairo. In order to secure this valuable acquisition, a series of American gold coins in the collection—a duplicate of which is owned by the Philadelphia Mint—was sold with the approval of the Department, and the funds thus obtained were used towards the purchase of the Arabic series, Mr. Brock generously making up the deficiency.

The University having been invited to appoint a representative to the Congress of Americanists to be held in New York in October, the Provost, upon the recommendation of the Department, appointed the Curator of the American Section, Mr. Stewart Culin.

Professor Sommerville has added to his already magnificent gifts to the Department some superb objects of Buddhistic worship collected during his travels in Asia in 1901. The new series is formed of innumerable specimens illustrative of the Buddhist Cult. Fine examples of the invulnerable and immovable "Fudo" represented in the midst of fire; of the youth "Kongara;" and of "Seitaka" are among the most valuable objects in the collection. These were secured from the Koyasau Temple in Kishu, Japan,

founded by Kobo Daishi, and one of the most sacred shrines of the East.

Three beautiful carved gilt and lacquered wood panels known as "Rammas," representing "tennins," that is, Buddhist angels or heaven dwellers, and used more than three hundred years ago as temple decorations; and an altar table of the sixteenth century, exquisitely carved in the best style of the period, are also worthy of special notice. An exquisite bronze vase for temple flowers from the Karasaki-Jinji temple of Kioto, made in the province of Kutani, Japan, some four hundred years ago, is of special interest as representing the various emblems of the Creed of Buddhistic Japan prior to the introduction of modern civilization. A sacred white elephant from the Higashi Hongwanji temple (Nagoya), a curious feature of which is that several of its teeth are represented as plugged with gold, is also a notable object. Smaller effigies, too numerous to refer to in detail, some carved panels decorated with symbolic devices, some of which are illustrative of interesting legends, many fine bronze or brass objects known as "Kemans," also ornamented with emblematic designs, complete a series, of the religious interest of which is second only to its artistic importance. The personal service as Curator, so devotedly and freely rendered the Department by the generous giver of this important collection, is not the least part of the benefit conferred.

The Babylonian Section, owing to the friendly liberality of the Sultan towards the University's able representative, has received this year twenty-two large cases, in each of which are packed some six or eight smaller boxes containing a large proportion of the tablets found in the now famous temple Library of Nippur, brought to light last season by the Expedition.

Only the southeastern and northwestern wings of the immense edifice have been cleared. These represent about a twelfth part of the entire structure; yet over twenty thou-

sand inscribed tablets have been recovered. These therefore may be regarded as forming only a small fraction of the probable result of future search among the Ancient Babylonian "book stacks." The contents of these, as far as examined, have proved most varied. Practically, every branch of literature known to the ancients is represented. It is stated that there are hundreds of historical texts, dictionaries (*i.e.*, lists of Sumerian words with Semitic equivalents), hymns, astronomical and mythological books, rituals, school-books, lists referring to the service of the temple and of the God Bêl. In fact, material sufficient to reconstruct the life of Ancient Nippur, and which it will require twenty years of diligent work to publish.

It would appear that the building was destroyed during the great Elamite invasion of Kudur-Nakhundi, 2285 B.C., and was not rebuilt. The mound gradually accumulated over the ruin. It grew and rose from century to century, and the various strata of Babylonian history can be identified in their sequence to a height of twenty-five feet over the buried library. During the forty-two centuries which have elapsed since the roof collapsed—the destroyed book-shelves, or ledges, built out from the original wall where the tablets had once been set in rows—have lain amid the débris beneath the mighty pile. The library was divided into two sections, one assigned to the archives, the other to the literary and educational material. Both these classes will prove invaluable to science. There is no question that the discovery of such a mine of ancient lore must rank among the great archæological finds of our century. It will probably be found to surpass in importance the discovery of the famous library of Nineveh which yielded such precious literary and religious material. The fact that the Nippur library is more than sixteen hundred years older than that of Assurbanipal must, in itself, add greatly to the scientific importance of the material recovered.

The above is but one of the many happy results of the

recent campaign. A government palace erected about 300 B.C. was systematically excavated, besides other buildings of minor interest. Precious inscriptions of stone, dating back to the reigns of Babylonia's earliest rulers, were obtained. Gold, silver, and bronze objects, seals and cylinders, images of gods and objects illustrative of the daily life of the people, were secured. Moreover, numerous important facts, which had remained obscure during the years that the Philadelphia expedition has spent in the field, were elucidated in the brief six weeks of Dr. Hilprecht's visit to the scene of the excavations. It is, therefore, difficult to over-estimate the probable scientific results of the work, when conducted, as is now planned, under his personal supervision, and the learned world must look forward to the coming campaign with the keenest interest.

The Egyptian and Mediterranean Section, through the American Exploration Society, has received important additions. The Dillwyn Parrish collection has notably been enriched by a series of Greek, Demotic, and Arabic papyri and fragments, among which eleven Demotic papyri of the Ptolemaic period (second or third century B.C.) are especially worthy of notice. These have been successfully unrolled by the Curator, who has submitted their contents to an expert paleographer.

The decipherment of Demotic texts offers extreme difficulties, and it is likely that some time will elapse before a full report on the MSS. will be ready for publication. It may, however, be stated that their contents will prove of serious value. Whilst there is no way of determining the locality whence they came, certain indications lend probability to the belief that they are from the Fayum, and that they may possibly form a part of the great Soknopaiu Nesos "find" of papyri, most of which found their way to Berlin and Vienna. The contents of the Philadelphia documents show them to belong to the archives of a temple. Taken collectively, they form one long administrative record cover-

ing some sixteen months of a credit and debit account kept in the thirty-second and thirty-third years of a nameless king.

Whilst Greek examples of such ancient book-keeping are known, no Demotic documents of this class exist. Moreover, certain entries throw important light upon the ceremonial and ritual of the temple, and the names of three or four deities new to science appear. A number of individuals are mentioned as having paid or received various amounts. Indeed, the Philadelphia papyri apparently only account for extra funds collected for the institution through gifts, assessments—in fact, through such means as are commonly resorted to at the present day—outside of its regular income, which was derived from the products of the temple lands.

Besides these rolls, and among a number of fragments of contracts, a magic papyrus, a Coptic letter, and other MSS., are specimens of the earliest Demotic script. Some fragments of Arabic correspondence in the collection will be submitted to a specialist. A number of Greek, Demotic, and Coptic ostraca, mostly receipts, but among which are two Coptic letters, have also been added to the Section's paleographic material.

In addition, some important stelæ have been secured, three of which are of serious historic and philological importance. Notably a stele of King Psammetichus II. recording the gift of a field to the God Atumu. Two ushabtis of King Apries, the Pharaoh Hophra of the Bible, are also of historic interest.

Another accession of paleographic importance is a large wooden sarcophagus of the twelfth dynasty (Ca. 2500 B.C.), the interior of which is literally covered with closely written texts cut intaglio in the smooth surface of the sycamore wood. As the coffin is eight feet six inches by three feet two inches by three feet, it may easily be understood how voluminous are the religious texts thus obtained. An inscribed sarcophagus of the twelfth dynasty is of rare occurrence

even in European Museums. Berlin possesses two, London and Paris one. Merely as a Museum object, therefore, the Philadelphia sarcophagus is a valuable possession.

Through the Egypt Exploration Fund and the Egyptian Research Account, a number of objects have been received. Although valuable, they have not the startling significance of those obtained from the same source in the last two years. This is due to the fact that during the past season Professor Flinders-Petrie worked over the old ground for the purpose of reconstructing the historic record. A fine limestone sarcophagus of anthropoid form, along with the mummies of the owner, the priest Hapi Amen, and of his dog, which was buried with him. Two full series of sepulchral amulets found *in situ* on the person of Zedher and the order of which was preserved—thus affording precise information as to the magic use of the spell supposed to be wrought by each talisman, and a number of other objects—have arrived at the Museum.

The Mediterranean collection has been enriched by six pieces of original Græco-Roman statuary secured through the munificence of Mrs. Lucy Wharton Drexel. The most important piece of the group is a draped figure of a Mænad—or possibly an Iris—in gray marble, of vigorous workmanship. It is probably a reproduction made in the period of imperial Rome, of a Greek original of the fifth century B.C. No replica of this figure is known. A marble head of Athena of the Hellenistic period, full of dignified beauty, a marble bust of a child of the Augustan Age, a small Grechetto marble statuette of a woman, a life-size marble head, once known as that of "Pompeius," but now identified with Menander, and a charming head of Dionysos, regarded by experts as a "late variation on a Praxitelean theme," complete Mrs. Drexel's generous addition to her already extensive collection of original statuary.

An illustrated catalogue is in progress, which, when published, will make the Philadelphia material available to

students in other parts of the world. It is also hoped that before long a guide to the Egyptian and Mediterranean Section will enable visitors to intelligently study its collections.

A small illustrative collection composed of duplicate material, casts and photographs, was formed at the request of the Dean for presentation by the University to the Macon, Georgia, High School, and the gift was highly appreciated. It would seem as though no better use could be made of accumulated duplicate material which must accrue in an active Museum; and as casting and photographing are now successfully done in the Museum, the cost of preparing such collections is inconsiderable.

Yacub Artin Pasha, the distinguished numismatist, and Egyptian Assistant Secretary of State for Public Instruction, was elected an Honorary Member of the Department.

Gifts have been received from the following persons: Dr. Roland Steiner, Garret C. Neagle, Dr. A. H. Thompson, F. W. Hodge, Henry G. Bryant, Andree Salles, Thomas Eakins, Amos Bonsall, Rev. A. S. Hawkesworth, E. L. Doran, Mrs. Helen Abbot Michael, J. L. Hubbell, Horace J. Smith, Dr. S. Weir Mitchell, and Mrs. E. W. Appleton.

Lectures were delivered at the Widener Lecture Hall on Wednesday afternoons as heretofore, and, by agreement with the Archæological Institute of America, four lectures were delivered by distinguished scholars under its auspices.

The building has been kept in thorough repair. The smoke-stack, which was blown down during a severe winter storm, has been replaced. It would, however, be desirable that some permanent provision be made for the heating and lighting plant. It was originally intended to be housed in the basement of the projected dome, but, pending the erection of that important section of the building, it has been operated in a temporary structure annexed to the southeast wing.

The work of the Department is receiving the fullest recognition at home and abroad. It would therefore seem that the proper maintenance of the Free Museum of Science and Art, now so closely identified with the intellectual life of this great city, should become a matter of public pride and cease to be a source of constant anxiety to its Managers.

Respectfully submitted,

SARA Y. STEVENSON,

Secretary.

APPENDIX XII.

REPORT OF THE PUBLICATION COMMITTEE.

To the Provost of the University;

SIR:—During the past year the Publication Committee has maintained its activity so far as the funds at its disposal would permit. In addition to the monographs issued under the University imprint, it has published separately the "Proceedings of University Day," February 22, 1902, and the "Proceedings of Commencement Day," June 18, 1902. A schedule of the serial publications for 1901-1902 follows.

TITLES ISSUED:

SERIES IN PHILOLOGY AND LITERATURE.

Volume VIII.

1. *The Faire Maide of Bristow: A Comedy.* Edited by Arthur H. Quinn, with Notes.
2. *The Sources of Plutarch's Life of Cicero.* By Alfred Gudeman.

CONTRIBUTIONS FROM THE ZOÖLOGICAL LABORATORY

For the year 1901: Ten Separata. By Philip P. Calvert, Edwin G. Conklin, Henry Fox, Helen T. Higgins, Thomas H. Montgomery, Jr., and J. Percy Moore.

A schedule of titles accepted, and now awaiting publication, is given below. Those in press at the date of submission of this report are so marked.

TITLES ACCEPTED:

SERIES IN PHILOLOGY AND LITERATURE.

Palatalization in the Old English Dialects. (In press.)
By Clarence G. Child.

A Study of the Poetry of John Donne. By Martin G.
Brumbaugh.

SERIES IN HISTORY.

Suffrage in the American Colonies. By Albert E. Mc-
Kinley.

CONTRIBUTIONS FROM THE DEPARTMENT OF
MATHEMATICS.

The Constructive Theory of Groups. (In press.) By
Burton Scott Easton.

SERIES IN ASTRONOMY.

Volume I, Part I.

Description and Determination of the Latitude of the
Flower Astronomical Observatory. By Charles L. Doo-
little.

Volume II, Part I.

Results of Observation with the Zenith Telescope of
the Flower Astronomical Observatory, from September 6,
1898, to August 30, 1901. (In press.) By Charles L.
Doolittle.

EXCHANGE BUREAU.

FOREIGN EXCHANGES.

Aachen, Technische Hochschule, Preussen, Deutschland.

Academie des Inscriptions et Belles Lettres, Institut de
France, Paris, France.

Amsterdam, Koninklijke Akademie van Wetenschappen,
Nederland.

- Amsterdam, Bibliothèque de l'Université (pour la Société Mathématique), Holland.
- Asiatic Society of Bengal, Calcutta, India.
- Basel, Universitäts-Bibliothek, Schweiz.
- Berlin, Königl. Museum für Naturkunde (Zoologische Sammlung), Berlin, Deutschland.
- Berlin, Universitäts-Bibliothek, Berlin, Deutschland.
- Bern, Universitäts-Bibliothek, Schweiz.
- Bernice Pauahi Bishop Museum, Honolulu, Hawaii.
- Bonn, Universitäts-Bibliothek, Preussen, Deutschland.
- Braunschweig, Technische Hochschule, Deutschland.
- Breslau, Königl. Universitäts-Bibliothek, Deutschland.
- Brünn, K. K. Technische Hochschule, Mähren, Oesterreich.
- Cambridge Philosophical Society, Cambridge, England.
- Cambridge University Library, Cambridge, England.
- Canadian Institute, Toronto, Canada.
- Ceylon, India; Royal Botanic Gardens.
- Christiania, Sweden; Botanic Garden.
- Constantinople, Imperial Ottoman Museum, Turkey.
- Darmstadt, Technische Hochschule, Hessen, Deutschland.
- Dorpat, Imper. Universität, Dorpat, Russia.
- Dresden Technische Hochschule, Sachsen, Deutschland.
- École Pratique des Hautes Etudes, Paris, France.
- Edinburgh, Royal Society of, Scotland.
- Erlangen, Königl. Universitäts-Bibliothek, Bayern, Deutschland.
- Freiburg, i. B., Universitäts-Bibliothek, Baden, Deutschland.
- Genève, Université de Genève, Suisse.
- Genua, Reg. Università degli Studi, Genua, Italia.
- Giessen, Universitäts-Bibliothek, Deutschland.
- Göttingen, Königl. Gesellschaft der Wissenschaften, Preussen, Deutschland.
- Göttingen, Universitäts-Bibliothek, Preussen, Deutschland.

- Greifswald, Universitäts-Bibliothek, Preussen, Deutschland.
Halle, Universitäts-Bibliothek, Preussen, Deutschland.
Hanover, Technische Hochschule, Preussen, Deutschland.
Heidelberg, Universitäts-Bibliothek, Baden, Deutschland.
L'Institut Catholique de Paris, Paris, France.
Jamaica, Institute of, Kingston, Jamaica, W. I.
Jamaica Public Gardens and Plantations, Kingston, Jamaica,
W. I.
Japan, Department of Education, Tokyo, Japan.
Jena, Universitäts-Bibliothek, Sachsen-Weimar, Deutsch-
land.
Karlsruhe, Technische Hochschule, Baden, Deutschland.
Kazan, l'Université Imperiel (de la Société Physics-Mathe-
matique), Russie.
Kiel, Koenigl. Universitäts-Bibliothek, Preussen, Deutsch-
land.
Koenigsberg, Koenigl. Universitäts-Bibliothek, Preussen,
Deutschland.
Leiden, Rijks Universiteit, Nederland.
Leipzig, Universitäts-Bibliothek, Sachsen, Deutschland.
Liège, l'Université, Liège, Belgique.
Linnean Society of New South Wales, Elizabeth Bay, Syd-
ney, Australia.
Louvain, Université Catholique de, Belgique.
Lund, Kong. Universitet, Sverige.
McGill University Library, Montreal, Canada.
Marburg, Universitäts-Bibliothek, Preussen, Deutschland.
Marine Biological Association, Plymouth, England.
Marseilles, France; Institut Colonial et du Jardin Botanique.
Moskau, Imper. Maskovskij Universitet, Moskau, Russia.
München, Technische Hochschule, Bayern, Deutschland.
Münster, Koenigl. Akademie-Bibliothek, Preussen, Deutsch-
land.
Musée Social, Paris, France.
Nancy, l'Université de, France.

- New South Wales, Royal Society of, North Sydney, Australia.
- Oxford University, Bodleian Library, England.
- Padua, Reg. Università degli Studi, Padua, Italia.
- Perugia, Reg. Università degli Studi, Perugia, Italia.
- Pisa, Reg. Università degli Studi, Pisa, Italia.
- Prag, Deutsche Universität, Boehmen, Oesterreich.
- Prince Edward Island, Legislative Library, Charlottetown, P. E. I.
- Rennes, l'Université de, France.
- Royal Horticultural Society, 117, Victoria St., S. W., London, England.
- Royal Institution of Great Britain, 21, Albemarle St., W., London, England.
- Royal Society of London, Burlington House, Piccadilly, W., London, England.
- St. Andrew's University, North Berwick, Scotland.
- St. Petersburg, Imper. Universitet, Russia.
- Sapporo, Imperial College of Agriculture, Sapporo, Japan.
- Strassburg, Universitäts-Bibliothek, Strassburg, Elsass Deutschland.
- Stuttgart, Technische Hochschule, Württemberg, Deutschland.
- Toronto, University Library, Toronto, Canada.
- Tübingen, Koenigl. Universitäts-Bibliothek, Württemberg, Deutschland.
- Upsala, Kong. Universitets-Bibliotek, Upsala, Sverige.
- Utrecht, Rijks Universiteit, Utrecht, Nederland.
- Wien, Technische Hochschule, Oesterreich-Ungarn.
- Wien, K. K. Universitäts-Bibliothek, Oesterreich-Ungarn.
- Würzburg, K. K. Universität, Bayern, Deutschland.
- Zurich, Switzerland; Botanical Gardens.

DOMESTIC EXCHANGES.

- Academy of Natural Sciences, Philadelphia.
American Academy of Arts and Sciences, 1154 Boylston Street, Boston, Mass.
American Catholic Historical Society, Philadelphia.
American Jewish Historical Society, Washington, D. C.
American Museum of Natural History, Seventy-seventh Street and Central Park West, New York City.
American Philosophical Society, Philadelphia.
Boston Public Library, Boston, Mass.
Brooklyn Institute of Arts and Sciences, Eastern Parkway and Washington Ave., Brooklyn, N. Y.
Brown University, Anatomical Museum, Providence, R. I.
Buffalo Society of Natural Sciences, Buffalo, N. Y.
California Academy of Sciences, San Francisco, Cal.
California, University of, Berkeley, Cal.
Carnegie Library, Pittsburg, Pa.
Case Memorial Library, Hartford, Conn. (Hartford Theological Seminary.)
Catholic University, Washington, D. C.
Chicago Academy of Sciences, Lincoln Park, Chicago, Ill.
Chicago, University of, Chicago, Ill.
Chicago Theological Seminary, Chicago, Ill.
Cincinnati Society of Natural History, 312 Broadway, Cincinnati, O.
Colorado College Scientific Society, Colorado Springs, Colo.
Colorado University, Boulder, Colo.
Columbia University Library, New York City.
Congress, Library of, Washington, D. C.
Cornell University Library, Ithaca, N. Y.
Denison University Library, Granville, Ohio.
Detroit Public Library, Detroit, Mich.
Free Library of Philadelphia.
Harvard University Library, Cambridge, Mass.
Illinois, University of (State Laboratory of Natural History), Urbana, Ill.

- Indiana State Geologist, Indianapolis, Ind.
Indiana State Library, Indianapolis, Ind.
Iowa, University of, Iowa City, Iowa.
John Crerar Library, The, Chicago, Ill.
Johns Hopkins University Library, The, Baltimore, Md.
Kansas Historical Society, Topeka, Kansas.
Kansas University, Lawrence, Kansas.
Leland Stanford, Jr., University Library, Palo Alto, Cal.
Lloyd Library, The, Cincinnati, Ohio.
Massachusetts Institute of Technology, Boston, Mass.
Michigan, University of, Ann Arbor, Mich.
Missouri, University of, Columbia, Mo.
Montana, University of, Biological Station, Missoula, Montana.
New York Botanical Garden, Bronx Park, New York City.
New York Public Library, New York City.
New York, University of State of, State Library, Albany, N. Y.
Northern Indiana Historical Society, South Bend, Ind.
Oberlin College, Oberlin, Ohio.
Ohio State Arch. and Historical Society, Columbus, Ohio.
Peabody Museum, Harvard University, Cambridge, Mass.
Philadelphia, Library Company of, 1300 Locust Street, Philadelphia.
Princeton University Library, Princeton, N. J.
Rush Medical College Library (University of Chicago), Chicago, Ill.
Smithsonian Institute, Washington, D. C.
State Library, Harrisburg, Pa.
Texas Academy of Science, Austin, Texas.
Trinity College Historical Society, Durham, N. C.
Vermont, University of (Agricultural Experiment Station), Burlington, Vt.
Virginia Historical Society, Richmond, Virginia.
Wisconsin, University of, Madison, Wisconsin.
Yale University Library, New Haven, Conn.

Total receipts through Exchange Bureau:

2314 dissertations and official publications from foreign universities.

407 dissertations and official publications from United States universities.

165 publications from United States and foreign learned societies and from schools.

2886

82 periodicals.

Respectfully submitted,

M. D. LEARNED,

Chairman.

APPENDIX XIII.

UNIVERSITY BIBLIOGRAPHY,

Covering the period from September 1, 1901, to September 1, 1902.

ABBOTT, A. C.

- University Teaching in Hygiene. (*Proceedings of the Twentieth Annual Meeting of the American Public Health Association*, September, 1901.)
- Advances in Preventive Medicine. Address delivered before the Alumni Society of the Medical Department of the University of Maryland. (*Maryland Medical Journal*, November, 1901.)
- Some of the Objects, Aims, and Needs of Modern Hospitals. Address delivered before the Allegheny County Medical Society. (*Pennsylvania Medical Journal*, January, 1902.)
- The Principles of Bacteriology. Text-Book. Sixth (revised) Edition. (Lea Bros. & Co., Philadelphia, 1902.)
- The Etiological Significance of the Acid-Resisting Group of Bacteria, and the Evidence in Favor of their Botanical Relation to *Bacillus Tuberculosis*. With Dr. N. Gildersleeve. (*University of Pennsylvania Medical Bulletin*, June, 1902; *Transactions of the Association of American Physicians*, 1902.)
- The Influence of Alcoholic Intoxication upon Certain Factors Concerned in the Phenomenon of Hæmolysis. With Dr. D. H. Bergey. (*Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten*, Abt. I.; Originale; Band xxxii., S. 260, 1902. *University of Pennsylvania Medical Bulletin*, August-September, 1902.)

ADLER, LEWIS H.

Excision of Cancer of the Rectum. (*American Medicine*, 1902.)

ALLYN, HERMAN B.

Statistics of Typhoid Fever at the Philadelphia Hospital, from January 1, 1897, to December 31, 1899. (*Philadelphia Medical Journal*, December, 1901.)

Perforative Appendicitis, with Abscess; Operation; Recovery. (*University of Pennsylvania Medical Bulletin*, April, 1902.)

AMES, HERMAN V.

State Documents on Federal Relations: The States and the United States. Number IV. The Tariff and Nullification. 1820-1833. Edited with Notes. (Department of History, University of Pennsylvania. Philadelphia, 1902, 60 pp.)

Outline of Lectures on American Political and Institutional History during the Colonial and Revolutionary Periods, with References for Collateral Reading. Revised Edition. (Department of History, University of Pennsylvania, Philadelphia, 1902, 95 pp.)

BERGEY, DAVID H.

An Unusual Case of Diphtheria. With Dr. J. N. Hunsberger. (*Philadelphia Medical Journal*, May, 1902.)

The Influence of Alcoholic Intoxication upon Certain Factors Concerned in the Phenomena of Hæmolysis and Bacteriolysis. A Preliminary Note. With Dr. A. C. Abbott. (*Transactions of the American Philosophical Society*, 1902.)

The Influence of Alcoholic Intoxication upon Certain Factors Concerned in the Phenomenon of Hæmolysis. A Preliminary Report. With Dr. A. C. Abbott. (*Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten*, Abt. I.; Originale; Band xxxii., S. 260, 1902.)

The Influence of Alcoholic Intoxication upon Certain Factors Concerned in the Phenomenon of Hæmolysis. With Dr. A. C. Abbott. (*University of Pennsylvania Medical Bulletin*, August-September, 1902.)

BEYEA, HENRY D.

The Significance and Treatment of Floating Kidney in Women. (*American Medicine*, September, 1901.)

Laceration of the Cervix Uteri. (*Philadelphia Medical Journal*, September, 1901.)

The Conservation and Preservation of the Ovaries and Functionating Uterine Tissue in the Operation of Hystero-Myomectomy. (*University of Pennsylvania Medical Bulletin*, October, 1901.)

Acquired Incomplete and Complete Prolapse of the Uterus and Vagina in Nulliparous Women. (*American Medicine*, Vol. iii., No. 20, May, 1902.)

The Surgical Elevation and Conservation of the Prolapsed Ovary and Tube (Adnexopexy). (*Ibid.*, Vol. iii. No. 26, June, 1902.)

The Surgical Treatment of Gastroptosis. (*Transactions of the New Jersey State Medical Society*, 1902.)

Report of a Case of Extra-uterine Pregnancy, Encapsulation of the Fœtal Bones for Three and a Half Years, with Attempted Extrusion of the Same into the Rectum. (*American Journal of Obstetrics and Diseases of Children*, New York, December, 1901.)

The Occurrence of Fibroid Tumors in Four Sisters, Mother, Grandmother, and Aunt. (*Ibid.*, March, 1902.)

BIGGS, MONTGOMERY H.

Myositis Fibrosa. (*University of Pennsylvania Medical Bulletin*, December, 1901.)

BOLLES, ALBERT S.

Banks and Banking in *Encyclopædia of Law and Procedure*, 200 pp. (American Law Book Co., New York, 1902.)

Practical Banking. Eleventh Edition, Revised and Enlarged. (Levey Bros. & Co., Indianapolis, Ind.)

BRUMBAUGH, MARTIN G.

History of Education. Vol. iii. Edited with Introduction. (Educational Series, by E. L. Kemp. J. B. Lippincott Co., Philadelphia, 1901.)

Report of the Commissioner of Education for Porto Rico, 1901. (Government Press, Washington, D. C.)

Education in Porto Rico. (*Congregationalist*, Boston, August, 1902.)

Educational Setting of Stephen Girard's Benefaction, July, 1902. (Board of City Trusts, Philadelphia.)

American Schools in Porto Rico. (*Proceedings National Educational Association*, Chicago, Ill., February, 1902.)

Application of Educational Principles to the Sunday-School. (*Proceedings of the International Sunday-School Association*, Denver, Col., July, 1902.)

BURR, CHARLES W.

The Therapeutic Value of Hypnotism. (*American Medicine*, January, 1902.)

The Prevention of Neurasthenia after Surgical Operations. (*Philadelphia Medical Journal*, April, 1902.)

Jacksonian Epilepsy, caused by Tumor of the Brain, relieved by Operation. Hemiplegia and Muscular Atrophy; Death in Ten Months. With Dr. William J. Taylor. (*American Journal of the Medical Sciences*, July, 1902.)

CALVERT, PHILIP P.

Odonata in *Biologia Centrali-Americana*; or, Contributions to the Knowledge of the Fauna and Flora of Mexico and Central Americana. Edited by F. Dulane Godman, F.R.S., London. R. H. Porter and Dulan & Co. 4to. (Volume "Neuroptera," pp. 17-96, pls. ii.-iv., October and December 1901, January, 1902.)

On the Systematic Position of *Thaumatoneura Inopinata*, McLachlan (Order Odonata), with some Remarks on the Classification of the Sub-order Zygoptera. (*Entomologist's Monthly Magazine*, Second Series, Vol. xiii. pp. 29-32. London, February, 1902.)

Variation in *Heterina Titia*, Drury (Odonata). (*Entomological News*, xiii. pp. 192-193. Philadelphia, June, 1902.)

CARSON, HAMPTON L.

The History of the Supreme Court of the United States, with Biographies of the Chief and Associate Justices. Third Edition. Two Vols., pp. 650. (P. W. Ziegler & Co., Philadelphia, 1902.)

CLARK, JOHN G.

Etiology of Post-Operative Femoral Thrombophlebitis. (*University of Pennsylvania Medical Bulletin*, July, 1902.)

Phleboliths of the Ovarian Veins simulating Urethral Stones. (*American Journal of Obstetrics*, 1902.)

CLEVELAND, FREDERICK A.

Funds and their Uses. 320 pp. (Appleton Co., New York.)

Relation of Finance and Accounts. (*Banker's Magazine*, June, 1902.)

CONKLIN, EDWIN G.

The Embryology of a Brachiopod, *Terebratulina Septentrionalis*. (*Proceedings of the American Philosophical Society*, Vol. xli., No. 168, pp. 41-76, Plates I.-X.)

CORNMAN, OLIVER P.

Spelling in the Elementary School: An Experimental and Statistical Investigation. (Ginn & Company, Boston.)
Physiology Primer. With Oscar Gerson, Ph.D. (Eldredge Bros., Philadelphia.)

CRAWLEY, EDWIN S.

A Short Course in Plane and Spherical Trigonometry. (Published by the author, Philadelphia, 1902.)

CULIN, STEWART.

The Indians of Cuba. (*Bulletin of the Free Museum of Science and Art*, University of Pennsylvania, Vol. iii., No. 4.)

DAVIS, GWILYM G.

The Value of Teaching the Fundamental Principles of Medicine from the Stand-point of their Practical Application. (*Pennsylvania Medical Journal*, April, 1902.)
Diagnosis of Appendicitis from Inflammation of the Gall-Bladder. (*International Medical Magazine*, November, 1901.)
A Brace for Anteroposterior Curvature of the Spine. (*University of Pennsylvania Medical Bulletin*, June, 1902.)
A Flexible Curve for Body Tracings. (*Ibid.*)
Treatment of Tubercular Joint Affections by Apparatus. (*International Medical Magazine*, July, 1902.)
Radical Cure of Hemorrhoids without the use of a General Anesthetic. (*Annals of Surgery*, June, 1902.)
The Principles and Practice of Bandaging. (P. Blakiston's Son & Co., Philadelphia, 1902.)

DOOLITTLE, CHARLES L.

Results of Observations with the Zenith Telescope, Flower Observatory, University of Pennsylvania. (*Astronomical Journal*, October, 1901.)

The Constant of Aberration. (*Science*, February, 1902.)

Scientific Research. Address delivered before the University of Pennsylvania Chapter of the Society of Sigma Xi, April 18, 1902. (*Science*, May, 1902.)

DOOLITTLE, ERIC.

Secular Perturbations of the Earth arising from the Action of Mars. (*Astronomical Journal*, No. 518, February, 1902.)

Secular Perturbations of the Earth arising from the Action of Jupiter. (*Astronomical Journal*, No. 306, July, 1902.)

DORLAND, W. A. NEWMAN.

Section on Gynecology. (*American Year-book of Medicine and Surgery*, 85 pp., January, 1902. W. B. Saunders & Co., Philadelphia.)

Section on Obstetrics. (*Ibid.*, 85 pp.)

DULLES, CHARLES W.

Purity of Vaccine Material. (*Philadelphia Medical Journal*, December 7, 1901.)

Note on the Treatment of Follicular Tonsillitis. (*Philadelphia Medical Journal*, January, 1902.)

Hydrophobia and the Pasteur Method. A Rejoinder. (*Medical Record*, May 3, 1902.)

EDSALL, DAVID L.

A Contribution Concerning Creatinin Excretion. (*Transactions of the Philadelphia Pathological Society*, 1901.)

A Clinical, Physiological and Chemical Study of Three Cases of Family Periodic Paralysis. With Dr. John K. Mitchell and Dr. Simon Flexner. (*Brain*, 1902.)

- The Relation of Uric Acid and Xanthin Bases to Gout and the So-called Uric Acid Diathesis. (*Philadelphia Medical Journal*, May, 1902.)
- Concerning the Benzoyl Esters of the Urine in Diabetes Mellitus and the Clinical Significance of Glycuronic Acid. (*University of Pennsylvania Medical Bulletin*, April, 1902.)
- Concerning the Clinical Significance of the Readily Eliminateable Sulphur of the Urine. (*Ibid.*, May, 1902.)
- A Remarkable Case of Coma apparently due to Acid Intoxication; *Sui Generis*. (*Philadelphia Medical Journal*, June, 1902.)

FETTEROLF, GEORGE.

- A New Instrument for Removing Redundant Tissue in Operations on the Nasal Septum. (*American Medicine*, March 1, 1902.)
- Hemorrhage Attending Rhinologic Operations. (*Ibid.*, April 19, 1902.)
- A Simple Method of Correcting Certain Deformities of the Nasal Septum. Read at the Eighth Annual Meeting of the American Laryngological, Rhinological and Otological Society, held at Washington, D. C., June 2, 3, and 4, 1902. (*The Laryngoscope*, St. Louis, August, 1902.)

FRAZIER, CHARLES H.

- Surgery of the Head, Neck, and Chest. (*Progressive Medicine*, March, 1902.)
- Division of the Sensory Root of the Trigemini for the Relief of Tic Douloureux. An Experimental, Pathological and Clinical Study, with a Preliminary Report of one Surgically Successful Case. (*University of Pennsylvania Medical Bulletin*, Vol. xiv., No. 10; *Philadelphia Medical Journal*, December, 1902.)

- A Study of the Post-Operative Changes in the Blood.
(*University of Pennsylvania Medical Bulletin*, Vol. xiv., No. 10.)
- Case Method of Teaching. (*Ibid.*, Vol. xiv., No. 7.)

FULLERTON, GEORGE S.

- The Doctrine of Time. (*Philosophical Review*, September, 1901.)
- The Real World in Space and Time. (*Ibid.*, November, 1901.)
- The World as Mechanism. (*Psychological Review*, January, 1902.)
- The Insufficiency of Materialism. (*Ibid.*, March, 1902.)
- The Atomic Self. (*Ibid.*, May, 1902.)
- "Free-Will" and the Credit for Good Actions. (*Popular Science Monthly*, October, 1901.)

FUSSELL, M. HOWARD.

- Address to Nurses. (*Journal for Trained Nurses*, March, 1902.)
- Cancer of the Head of the Pancreas, with Gall-Stones. (*Report of the Pathological Society*, February, 1902.)
- Impaction of Tapeworm in the Appendix. (*Ibid.*)
- Large Ovarian Cyst. (*Ibid.*, April, 1902.)
- Spontaneous Non-tuberculous Pneumothorax. With Dr. David Riesman. (*American Journal of the Medical Sciences*, August, 1902.)

GAY, FREDERICK P.

- The Lateral Chain Theory of Ehrlich as Explanatory of Toxins, Antitoxins, Bacteriolysins and Hæmolysins. (*American Journal of the Medical Sciences*, cxxiii., 1902, 881.)

GILDERSLEEVE, NATHANIEL.

- A Bacteriological Study of Dissecting-Room Cadavers. (*University of Pennsylvania Medical Bulletin*, November, 1901.)
- The Etiological Significance of the Acid-Resisting Group of Bacteria, and the Evidence in Favor of their Botanical Relation to the *Bacillus Tuberculosis*. With Dr. A. C. Abbott. (*Ibid.*, June, 1902.)
- On the Actinomyces-like Development of some of the Acid-Resisting Bacilli. With Dr. A. C. Abbott. (*Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten.*)

GOODE, J. PAUL.

- Eighth Year Geography. A Series of Eight Papers. (*School News*, September, 1901, to May, 1902.)
- Geography in America: A Plea for Advanced Geographic Training and for the Development of Economic Geography. (*Bulletin of the American Bureau of Geography*, December, 1901.)
- Geography in the Illinois Schools. Suggestions for a Course of Study. (*School News*, July, 1902.)
- Injuries to the Eye Caused by Intense Light. (*Science*, Vol. xiv. p. 433, New York, March, 1902.)

GOODSPEED, ARTHUR W.

- Apparatus for the Generation and for the Application of Röntgen Rays. With four pages of illustrations.
- The Standard Dictionary. (Funk & Wagnalls Co., New York, 1901.)
- Contributions of Helmholtz to Physical Science. (*Journal of the American Medical Association*, March, 1902.)
- Mass and Weight. (*Science*, June, 1902.)

GRAYSON, CHARLES P.

- Diseases of the Nose, Throat, and Ear. (Lea Bros. & Co., July, 1902.)

GRIFFITH, J. P. CROZER.

- A Case of Very Persistent Laryngeal Stenosis. (*American Medicine*, March, 1902.)
- Rubella and the "Fourth Disease." (*Philadelphia Medical Journal*, April, 1902.)
- Dietetic Aphorisms for Infant Life. (*American Medicine*, May, 1902.)
- Methods of Keeping Case Records in Private Practice. (*International Clinics*, Vol. iv., Eleventh Series.)
- Appendicitis in Children of Two Years and Under. (*University of Pennsylvania Medical Bulletin*, October, 1901.)

GUDEMAN, ALFRED.

- The Codex Toletanus of the Agricola. (*Classical Review*, Vol. xvi., February, 1902.)
- Bemerkungen zum Codex Toletanus des Agricola. (*Berliner Philol. Wochenschr.*, No. 25, 1902.)
- P. Corn. Taciti de vita ac moribus Cn. Iul. Agricolaë liber erklärt von A. Gudeman. (Haupt & Sauppe Sammlung, Weidmann, Berlin, 1902, pp. 117.)
- The Sources of Plutarch's Life of Cicero. (Publication of the University of Pennsylvania. Series in Philology and Literature, Vol. viii., No. 2, pp. 117. Ginn & Co., Boston, 1902.)

HARSHBERGER, JOHN W.

- An Ecologic Sketch of the Flora of Santo Domingo. (*Proceedings of the Academy of Natural Sciences of Philadelphia*, 1901, pp. 554-561, with two plates.)
- How Fungi Gain Entrance to Living Trees. (*Forest Leaves*, viii., December, 1901, p. 88.)
- What Botany is of Most Worth? (*Education*, February, 1902, xxii. p. 378.)
- Cockscomb Fasciation of Pineapples. (*Proceedings of the Academy of Natural Sciences of Philadelphia*, 1901, pp. 609-611.)

- The Shipping of Mangoes and the Reason for their Absence in the Markets of the United States. (*Bulletin of the Botanical Department, Jamaica*, new series, viii. pp. 177-178.)
- A Botanical Ascent of the Mount Katahdin, Me. (*Plant World*, v. pp. 21-28, with two plates.)
- Doctor Adam Kuhn, First Professor of Botany in America, and at the University of Pennsylvania. (*Alumni Register*, vi. pp. 327-333, with two plates.)
- The Botanical Gardens of Jamaica. (*Plant World*, v. pp. 41-44, with two plates.)
- The Germination of the Seeds of *Carapa guianensis* Aubl. (*Proceedings of the Academy of Natural Sciences of Philadelphia*, 1902, pp. 122-126, with one plate.)
- Two Fungous Diseases of the White Cedar. (*Ibid.*, 1902, pp. 461-504, with two plates.)

HARTZELL, MILTON B.

- A Case of Dermatitis Vegetans. (*Journal of Cutaneous and Genito-Urinary Diseases*, October, 1901.)
- A Case of Fibroma Molluscum. (*American Journal of the Medical Sciences*, February, 1902.)
- The Treatment of Itching. (*Therapeutic Gazette*, February, 1902.)
- Herpes; Herpes Zoster. (*Reference Handbook of the Medical Sciences*, 1902, Vol. iv., Wm. Wood & Co.)

HIRST, BARTON C.

- Text-Book of Obstetrics. Third Edition. (W. B. Saunders, Philadelphia, 1902.)
- Results of Operative Treatment for Puerperal Sepsis. (*Philadelphia Medical Journal*, January, 1902.)
- An Operation for Cystocele. (*American Journal of Obstetrics*, No. 6, 1902.)

HOLLOWAY, THOMAS B.

A Study of the Post-Operative Changes in the Blood.
With Dr. Chas. H. Frazier. (*University of Pennsylvania Medical Bulletin*, December, 1901.)

JASTROW, MORRIS, JR.

The Study of Religion. (London, 1901, 451 pp.)
Die Religion Babyloniens und Assyriens, Part I. (Gies-
sen, 1902.)
Handbooks on the History of Religions, Vol. iii. Edited
by Morris Jastrow, Jr. (Ginn & Co., Boston, 1902.)
The Palace and Temple of Nebuchednezar. (*Harper's*
Monthly Magazine, April, 1902.)
Creation Legends in Ancient Religions. (*Ibid.*, June,
1902.)
The Old Testament and Recent Assyriological Research.
(*The Independent*, October, 1901.)
Cornelius Petrus Tiele. (*Ibid.*, February, 1902.)
Baring of the Arm and Shoulder as a Sign of Mourn-
ing. (*Zeitschrift für die alttestamentliche Wiss.*, Vol.
xxii. 1.)

JOHNSON, EMORY R.

The Isthmian Canal: Work and Report of the Com-
mission. (*Review of Reviews*, January, 1902.)
The Isthmian Canal in its Economic Aspects. (*Annals*
of the American Academy of Political and Social Sci-
ence, Vol. xix., January, 1902.)
Reasons for the Panama Route. (*The Independent*, Vol.
liv., No. 2775, February, 1902.)
The Isthmian Canal: Factors affecting the Choice of
Route. (*Quarterly Journal of Economics*, Vol. xvi.,
August, 1902.)

JUMP, HENRY D.

Duration of Immunity by Diphtheria Antitoxin. (*Phila-*
delphia Medical Journal, January, 1902.)

KELLY, ALOYSIUS O. J.

- A Review of some Recent Literature on the Etiology of Carcinoma. (*University of Pennsylvania Medical Bulletin*, October, 1901.)
- Observations on the Nature and Diagnosis of Acute or Infective Endocarditis. (*Ibid.*, January, 1902; *Pennsylvania Medical Journal*, January, 1902.)
- A Review of some Recent Literature on Certain Infective Diseases. (*American Journal of the Medical Sciences*, February, 1902.)
- Section on Pathology and Bacteriology in the American Year-Book of Medicine and Surgery. With Dr. David Riesman. (W. B. Saunders, Philadelphia, 1902.)
- On Multiple Serositis. The Association of Chronic Obliterative Pericarditis with Ascites, with Particular Reference to the "Pericarditic Pseudocirrhosis of the Liver" of Pick, and the "Iced Liver (Zuckergussleber)" of Curschmann. (*Transactions of the College of Physicians of Philadelphia*, March, 1902.)
- Hypernephroma. (*Reference Handbook of the Medical Sciences*, iv. p. 805, 1902.)
- Inflammation of the Kidneys—Bright's Disease. (*Ibid.*, v., p. 330, 1902.)
- The Diagnosis and Treatment of Chronic Interstitial Nephritis. (*Vermont Medical Monthly*, viii. p. 145, 1902.)

LEARNED, MARION D.

- When Should the Study of German Begin? (*Pädagogische Monatshefte*, 1902.)
- The American Ethnographical Survey. (Various papers and forms relating to the survey, *Science*, N. S., xv. 698; *Americana Germanica*, iv. 2.)
- Address at Prince Henry Kommerz, New York. (*Americana Germanica*, iv. 2, 176.)

LEWIS, WILLIAM DRAPER.

- A Digest of Decisions and Encyclopædia of Pennsylvania Law, Vols. xii., xiii., xiv. With George Wharton Pepper.) Rees, Welsh & Co., Philadelphia, 1901.)
- Defence of Lack of Mutuality—Bill for Specific Performance of a Contract. Series of Five Articles. (*American Law Register*, May to October, 1901, inclusive; May to July, 1902, inclusive.)
- Two Questions in Specific Performance. (*Ibid.*, June, 1901.)

LINGELBACH, WILLIAM E.

- The Internal Organization of the Merchant Adventurers. Read before the Royal Historical Society of England in November, 1901. (*Transactions of the Society*, 1901-1902.)
- The Merchant Adventurers of England. Crown octavo, pp. 260. (*Translations and Reprints*, University of Pennsylvania.)

McMASTER, JOHN BACH.

- Daniel Webster. (The Century Company, New York.)

MARBURG, EDGAR.

- The Stresses in Skew Bridges. (*Selected Papers of the Rensselaer Society of Engineers*, Troy, N. Y., Vol. ii. pp. 195-206, June, 1902.)
- The Needs of Industrial Education in America. (*Proceedings of the Engineers' Club of Philadelphia*, Vol. xix., No. 1, pp. 35-44, January, 1902.)
- The Duty of the Engineer to Himself and His Profession. (*Ibid.*, Vol. xviii., No. 4, pp. 213-221, October, 1901.)
- After Graduation—What? (*The Polytechnic*, Troy, N. Y., Vol. xviii., No. 4, pp. 59-67.)

MARSHALL, JOHN.

- The Urine in Diabetes. (*Proceedings of the Pathological Society of Philadelphia*, Vol. iv., No. 10.)

MARTIN, EDWARD.

Surgical Treatment of Sterility Due to Obstruction at the Epididymis, together with a Study of the Morphology of Human Spermatozoa. (*University of Pennsylvania Medical Bulletin*, March, 1902.)
Genito-Urinary and Venereal Diseases. Second Edition. (J. B. Lippincott Co., 1902.)

MEADE, EDWARD S.

The Capitalization of the United States Steel Corporation. (*Quarterly Journal of Economics*, February, 1902.)
Economics and Sociology. (*International Yearbook*, 1901.)

MIKELL, WILLIAM E.

McNaghten's Case and Beyond. (*American Law Register*, May, 1902.)

MILLS, CHARLES K.

Cases Illustrating the Differential Diagnosis of Cerebral and Hysterical Hemianæsthesia. With Dr. T. H. Weisenberg. (*Journal of Nervous and Mental Diseases*, May, 1901.)
The Czolgosz Trial: A Unique Event. (*Philadelphia Medical Journal*, October, 1901.)
Political Assassinations. (*Ibid.*)
The Separate Localization in the Cortex and Subcortex of the Cerebrum of the Representation of Movements and of Muscular and Cutaneous Sensibility. (*Journal of Nervous and Mental Disease*, November, 1901.)
Syphilis of the Nervous System. (*Philadelphia Hospital Reports*, 1901, Vol. iv.)
Tumor of the Brain Localized Clinically and by the Röntgen Rays, with some Observations and Investigations relating to the Use of the Röntgen Rays in the Diag-

- nosis of Lesions of the Brain. With Dr. G. E. Pfahler.
(*Philadelphia Medical Journal*, February, 1902.)
Loeb and the New Biology. (*Ibid.*, March, 1902.)

MONTGOMERY, THOMAS H., JR.

- List of the Hemiptera Heteroptera of the Vicinity of
Wood's Holl, Massachusetts. (*Entomological News*,
January, 1902.)
On Phylogenetic Classification. (*Proceedings of the
Academy of Natural Sciences of Philadelphia*, July,
1902.)

MOORE, J. PERCY.

- Some Bermuda Oligochaeta, with a Description of a New
Species. (*Proceedings of the Academy of Natural
Sciences of Philadelphia*, 1902, pp. 81-84.)
Descriptions of some New Polynoidæ, with a List of
other Polychæta from North Greenland Waters.
(*Ibid.*, pp. 258-278, Plates xiii. and xiv.)

MUNRO, DANA C.

- Christian and Infidel in the Holy Land. (*International
Monthly*, November and December, 1901.)
The Fourth Crusade. New Edition. Vol. iii., No. 1, of
Translations and Reprints; St. Columban (New Edi-
tion), Vol. ii., No. 7, of the same series; The Christian
Persecutions (New Edition), Vol. iv., No. 1, of the
same series. (Department of History, University of
Pennsylvania, 1902.)

MUSSER, JOHN H.

- Clinical Expression of Chronic Myocarditis. (*Medical
News*, April, 1902.)
Chronic Myocarditis. (*Ibid.*, January, 1902.)

NEILSON, THOMAS R.

Report of Cases. (1) Renal Calculus in a Child Ten Years Old; Nephrolithotomy; Recovery. (2) Sarcoma of the Superior Maxillary Bone in a Child Eleven Years of Age; Excision of the Bone; Recovery from Operation; Exhibition of Patient. (*Transactions of the Philadelphia Academy of Surgery in the Annals of Surgery*, August, 1902.)

NICHOLSON, WILLIAM R., JR.

A Consideration of Certain Details in the Management of the Pregnant and Puerperal Patient. (*American Journal of the Medical Sciences*, November, 1901.)
Present Methods of Treating Ureters Severed during Abdominal Operations. (*Ibid.*, April, 1902.)
A Review of the Literature of Ovarian Transplantation. (*Ibid.*, January, 1902.)

NITZSCHE, GEORGE E.

Proceedings at the Dedication of the New Building of the Department of Law, University of Pennsylvania, February 21-22, 1900. 350 pp., illustrated. (International Printing Company, Philadelphia.)

NORRIS, CHARLES C.

Vaginal Incision: a Report of Twenty Cases operated upon by this Method. (*University of Pennsylvania Medical Bulletin*, July, 1902.)
Preliminary Anesthesia by Nitrous Oxide Gas: Report of 150 Cases by this Method compared with 150 Cases of Plain Etherization. (*Ibid.*)

OSTHEIMER, MAURICE.

Undiluted Milk in the Chronic Gastro-enteritis of Rha-chitic Infants. (*Philadelphia Medical Journal*, September 14, 1901.)

- Death of Dr. Norris. (*Philadelphia Medical Journal*, November 23, 1901.)
- The Infections of Childhood. (*Ibid.*, January 4, 1902.)
- Deformities of the Extremities. (*Ibid.*, February 1, 1902.)
- The Diseases of Nutrition. (*Ibid.*, March 1, 1902.)
- Typhoid Fever. (*Ibid.*, April 5, June 7, 1902.)
- Infant Feeding. (*Ibid.*, May 3, 1902; *Medical Times and Register*, August, 1902.)
- The Treatment of Summer Diarrhœa in Young Children. (*Philadelphia Medical Journal*, July 26, 1902; *Medical Magazine* (London), September, 1902.)

PATTEN, SIMON N.

- Theory of Prosperity. (The Macmillan Co., New York and London, 1902.)

PENNIMAN, JOSIAH H.

- Some Impressions of Educational Work in the South. (*The Educational*, March, 1902. Columbia, S. C.)
- The Literary Study of the Bible. (*Proceedings of the Southern Educational Association*, 1902.)
- The Bearing on the Old Testament of Archæological Finds made by the University of Pennsylvania at Nippur in Babylonia. (*Ibid.*)
- The Significance of College. (*Penn Charter Magazine*, Philadelphia, June, 1901.)

PEPPER, GEORGE WHARTON.

- A Digest of Decisions and Encyclopædia of Pennsylvania Law, Vols. xii., xiii., and xiv. With William Draper Lewis. (Rees, Welsh & Co., Philadelphia, 1901.)

PEPPER, WILLIAM.

- Granular Degeneration of the Erythrocyte. With Dr. C. Y. White. (*American Journal of the Medical Sciences*, September, 1901.)

Further Studies of Granular Degeneration of the Erythrocyte. With Dr. Alfred Stengel and Dr. C. Y. White. (*American Journal of the Medical Sciences*, May, 1902.)

POSEY, WILLIAM CAMPBELL.

Papilloma of the Caruncle. (*University of Pennsylvania Medical Bulletin*, November, 1901.)

An Unusual Form of Superficial Punctate Keratitis. (*Annals of Ophthalmology*, January, 1902.)

Syphilitic Ulcer of the Eyelid. (*Ophthalmic Record*, March, 1902.)

Diseases of the Lachrymal Apparatus. (*Philadelphia Medical Journal*, April, 1902.)

Transient Mononuclear Blindness. (*Journal of the American Medical Association*, May, 1902.)

Carcinoma of the Eyelids, with Secondary Involvement of the Eyeball; Removal of the Growth by Extensive Plastic Operations; Recurrence. (*Philadelphia Medical Journal*, July 1902.)

POTTS, CHARLES S.

A Case of Progressive Unilateral Ascending Paralysis, probably due to Multiple Sclerosis. (*Journal of Nervous and Mental Disease*, p. 559, October, 1901.)

Ankylotic Rigidity of the Spine (Rhizomelique Spondylosis) much improved by the Use of Hot Air. (*Therapeutic Gazette*, p. 375, June, 1902.)

RANDALL, B. ALEXANDER.

The Debt of Otology to Helmholtz. (*Journal of the American Medical Association*, 1901.)

Deposit of Chalk in the Tympanic Membrane; a Case of Mastoid Disease due to Smallpox. (*International Clinics*, Vol. i., p. 192. J. B. Lippincott Co., 1902.)

Modern Mastoid Trephining Operations. (*American Journal of the American Sciences*, April, 1902.)

Notes on Ten Years' Work in the University Ear Department. (*University of Pennsylvania Medical Bulletin*, May, 1902.)

The Recording of Ear Cases. (*Annals of Otology*, 1902.)

Relation of the Facial Nerve to the Tympanum, especially in Tympanic Exenteration. (*The Laryngoscope*, June, 1902.)

Some Notes on Aural Vertigo. (*Journal of the American Medical Association*, 1902.)

Trauma in Relation to Exfoliation of the Adult Labyrinth. (*Transactions of the American Otological Society*, 1902.)

Models in the Demonstration of Elementary Physiology of Vision. (*Philadelphia Medical Journal*.)

REICHERT, EDWARD T.

The Ponto-Bulbar Heat Centre. (*Journal of the American Medical Association*, January, 1902.)

Antagonisms of Cocaine and Morphine, especially their Actions upon General Metabolism, and the Employment of Cocaine in Morphine Poisoning. (*Therapeutic Gazette*, July and August, 1902.)

Cocaine as a Thermogenic: its Modes of Action. (*Philadelphia Medical Journal*, August, 1902.)

RHEIN, MEYER L.

The Bearing of Oral Pathology on General Medicine. Read before the Medical Society of the County of Albany, February 12, 1902. (*Albany Medical Annals*, May, 1902.)

RICHARDS, HORACE C.

On the Harmonic Curves known as Lissajous Figures. (*Franklin Institute Journal*, April, 1902.)

RIESMAN, DAVID.

- Large Abscess of the Liver; Aspiration; Later Operation; Recovery. (*Philadelphia Hospital Reports*, Vol. iv., 1900.)
- A Specimen of *Bothriocephalus Latus*. (*American Medicine*, February, 1902; *Proceedings of the Pathological Society of Philadelphia*, Vol. v., No. 3, January, 1902.)
- Albuminous Expectoration following Thoracocentesis. (*American Journal of the Medical Sciences*, April, 1902; *Transactions of the College of Physicians*, 3d Series, Vol. xxiii., 1901.)
- Spontaneous Nontuberculous Pneumothorax. With Dr. M. H. Fussell. (*American Journal of the Medical Sciences*, August, 1902; *Transactions of Association of American Physicians*, 1902.)
- Skin Eruptions in Malaria, with the Report of a Case of Urticaria. (*American Medicine*, March, 1902.)
- Article on Cretinism. (*Wood's Reference Handbook of the Medical Sciences*.)
- A Renal Calculus composed of Calcium Oxalate, Calcium Carbonate, and Magnesium Phosphate. (*Proceedings of the Pathological Society of Philadelphia*, Vol. v., No. 6, April, 1902.)
- A Case of Double Hydronephrosis. With Dr. L. W. Steinbach. (*Ibid.*, Vol. v., No. 9, July, 1902.)

ROWE, LEO S.

- Report of the United States Code Commission for Porto Rico. Two vols. With Judge Daly and J. H. Lopez.
- Report of the Insular Code Commission. Four vols. With Hon. J. M. Keedy and J. H. Lopez.
- The Supreme Court and Insular Cases. (*Annals of American Academy of Political and Social Science*, September, 1901.)
- The Social Consequences of City Growth. (*Yale Review*, November, 1901.)

Extension of American Influence in the West Indies.
(*North American Review*, August, 1902.)

SAILER, JOSEPH.

The Treatment of Exophthalmic Goitre, with Special Reference to the Use of Sodium Phosphate. (*Therapeutic Monthly*, September, 1901.)

The Supraorbital Reflex in Facial Paralysis. (*Philadelphia Medical Journal*, November, 1901.)

Two Cases of Typhoid Fever complicated by Noma. (*American Journal of the Medical Sciences*, January, 1902.)

The Relation of the Tubercle Bacillus to Pseudoleukæmia (Sternberg's Disease). (*Philadelphia Medical Journal*, April, 1902.)

The Unilateral Occurrence of Kernig's Sign as a Symptom of Focal Brain Disease. (*American Journal of the Medical Sciences*, May, 1902.)

The Etiology of Cholecystitis. (*Medicine*, May, 1902.)

The Diagnosis of Cholecystitis. (*Ibid.*, June, 1902.)

Diagnosis by Means of the Serum of the Blood. A Critical Study. (*University of Pennsylvania Medical Bulletin*, August-September, 1902.)

SHELLING, FELIX E.

The English Chronicle Play. (The Macmillan Company, New York, 1902.)

SCHLEIF, WILLIAM.

Materia Medica, Therapeutics: Medical Pharmacy, Prescription-writing, and Medical Latin. Second Edition. (Lea Bros. & Co., Philadelphia.)

SHUMWAY, DANIEL B.

The Religious Poems of Anna Margarethe Pfefferin. (*Modern Language Notes*, Vol. xvii., No. 5.)

SINGER, EDGAR A., JR.

Choice and Nature. (*Mind*, Vol. xi., N. S., No. 41.)

SMITH, EDGAR F.

Ammonium Vanadicophosphotungstate. (*Journal American Chemical Society*, 1902.)

Observations upon the Electrolytic Determination of Zinc and of Copper. (*Ibid.*)

Electrochemical Analysis. Third Edition, Revised and Enlarged. (P. Blakiston's Son & Co., 1902.)

SOMMERVILLE, MAXWELL.

Engraved Gems. Popular Edition. (Drexel Biddle, Philadelphia, 1902.)

A Wanderer's Legend. (Drexel Biddle, Philadelphia, 1902.)

SPILLER, WILLIAM G.

Diseases of the Nervous System. (*Progressive Medicine*, September, 1901. Lea Bros. & Co., Philadelphia.)

The Division of the Sensory Root of the Trigemini for the Relief of Tic Douloureux: an Experimental, Pathological and Clinical Study, with a Preliminary Report of One Surgically Successful Case. With Dr. C. H. Frazier. (*University of Pennsylvania Medical Bulletin*, December, 1901; *La Parole* (Paris), May, 1902.)

A Case of Complete Absence of the Visual System in an Adult. (*Brain*, 1901; *University of Pennsylvania Medical Bulletin*, February, 1902.)

The Sensory Segmental Area of the Umbilicus. (*Philadelphia Medical Journal*, February, 1902.)

The Importance of the Lachrymal Reflex in the Diagnosis between Organic and Hysterical Anesthesia of the Face. (*Ibid.*, May, 1902.)

Ueber den directen ventro-lateralen Pyramidenstrang. (*Neurologisches Centralblatt*, Berlin, No. 12, 1902.)

- A Case of Primary Degeneration of the Pyramidal Tracts. (*Journal of Nervous and Mental Disease*, May, 1902.)
- Fourteen Cases of Spastic Spinal Paralysis occurring in One Family. (*Philadelphia Medical Journal*, June, 1902.)
- Two Cases of Partial Internal Hydrocephalus from Closure of the Interventricular Passages. (*American Journal of the Medical Sciences*, July, 1902.)

STEELE, J. DUTTON.

- Osteitis Deformans. With Dr. F. A. Packard and Dr. T. S. Kirkbride. (*American Journal of the Medical Sciences*, November, 1901.)
- Gastroptosis and Gastric Motor Insufficiency. (*Philadelphia Medical Journal*, January, 1902.)
- Primary Carcinoma of the Liver. (*Proceedings of the Pathological Society of Philadelphia*, March, 1902.)
- A Case of Chronic Interstitial Pancreatitis, with Involvement of the Islands of Langerhans in a Diabetic. (*American Journal of the Medical Sciences*, July, 1902.)

STENGEL, ALFRED.

- The Blood in Infancy and Childhood. (*University of Pennsylvania Medical Bulletin*, November, 1901.)
- Iodic Purpura with Fever. (*Therapeutic Gazette*, January, 1902. Detroit, Mich.)
- The Relation of the Myocardium to Pericardial and Endocardial Disease. (*Journal of the American Medical Association*, December, 1901. Chicago.)
- Further Studies of Granular Degeneration of the Erythrocyte. With Dr. C. Y. White and Dr. Wm. Pepper. (*American Journal of the Medical Sciences*, May, 1902. Lea Bros. & Co., Philadelphia.)

American Edition of Nothnagel's System of Medicine. 10 vols. Edited by Alfred Stengel, M.D. (W. B. Saunders & Co., Philadelphia.) Vol. I. Typhoid and Typhus Fever. Vol. II. Variola, Varicella, Vaccination, etc. Vol. III. Diphtheria, Measles, Scarlatina, etc.

STEVENS, ARTHUR A.

Sections on the Circulatory System, Lymphatic Vessels, Lymph Glands, and Spleen. (*American Text-Book of Pathology*. W. B. Saunders & Co., Philadelphia, 1901.)

SUTTON, HOWARD A.

Smallpox in Norristown and Report of Norristown Municipal Hospital. (*Annual Report of the Norristown, Pa., Board of Health*, 1902.)

SWAN, JOHN M.

A Manual of Human Anatomy: Cytology and Embryology. Second Edition, Part I. (F. W. S. Langmaid, Philadelphia, 1902.)

A Note on the Treatment of Diphtheria. (*Therapeutic Monthly*, October, 1901; *Proceedings of the Philadelphia County Medical Society*, Vol. xxii., No. 7.)

A Summary of the Recent Literature on Diseases of the Respiratory System. (*Philadelphia Medical Journal*, February and May, 1902.)

Guaiacol in the Treatment of Tuberculosis in Children. (*Therapeutic Monthly*, February, 1902.)

The Use of Atropine in Intestinal Obstruction. (*Ibid.*, April, 1902.)

TYSON, JAMES.

Uric Acid: Its Sources and Effects. Read before the Cumberland County Medical Society of Pennsylvania and the Hare Medical Society. (*New York Medical Journal*, March, 1902.)

Hæmatoporphyria. Read before the Association of American Physicians, Washington, D. C. (*Philadelphia Medical Journal*, May, 1902.)

The Present State of Our Knowledge of Diabetes. Read before the Medico-Chirurgical Faculty of Maryland, Baltimore, and the Medical Society of the State of Ohio, Toledo. (*University of Pennsylvania Medical Bulletin*, August-September, 1902.)

WESSELHOEFT, E. C.

German Composition, with Notes and Vocabulary. (D. C. Heath & Co., Boston, 1902.)

WESTCOTT, THOMPSON S.

A Method for the Differential Modification of the Proteids in Percentage Milk Mixtures. (*American Journal of the Medical Sciences*, October, 1901, p. 439. Philadelphia.)

The Treatment of Acute Milk Poisoning—Summer Diarrhœa. (*Philadelphia Medical Journal*, July, 1902.)

WHITE, COURTLAND Y.

Granular Degeneration of the Erythrocyte. With Dr. Wm. Pepper. (*American Journal of the Medical Sciences*, September, 1901.)

The Blood in Infancy and Childhood. With Dr. Alfred Stengel. (*University of Pennsylvania Medical Bulletin*, November, 1901.)

Sarcoma of the Large Intestine. With Dr. J. H. Jopson. (*American Journal of the Medical Sciences*, December, 1901.)

Diagnosis by Means of the Formed Elements of the Blood. (*University of Pennsylvania Medical Bulletin*, April, 1902.)

Further Studies of Granular Degeneration of the Blood. With Dr. Alfred Stengel and Dr. Wm. Pepper. (*American Journal of the Medical Sciences*, May, 1902.)

WHITE, THOMAS R.

Constitutional Prohibition of Local and Special Legislation in Pennsylvania. (*American Law Register*, Philadelphia, 1902.)

WILLARD, DE FOREST.

Presidential Address, American Surgical Association. (*Transactions American Surgical Association*, 1902; *University of Pennsylvania Medical Bulletin*, August, 1902, xv. 191.)

Surgical Treatment of Tubercular Cavities of Apex of Lung. Chairman's Address, Surgical Section, American Medical Association. (*Journal of the American Medical Association*, Vol. xxxix. 666; *New York Medical Journal*, 1902; *Philadelphia Medical Journal*, 1902, 1100; *American Medicine*, 1902, 987.)

Evolution of Surgery. Address at Gregory Banquet, St. Louis, Mo., April, 1902. (*St. Louis Medical Review*, April, 1902, Vol. xlv. 275.)

Appendicitis. (*International Medical Magazine*, November, 1901, 648.)

Traumatic Rupture of the Gall-Bladder without Injury of the Liver; Celiotomy; Sixty-four Ounces of Bile in the Abdominal Cavity; Recovery. (*New York Medical Journal*, lxxv. 369; *Philadelphia Medical Journal*, 1902, viii. 429; *Medicine*, Detroit, May, 1902, 430.)

Gonorrhœal Arthritis; Treatment by Early Irrigation of Joint. (*Therapeutic Monthly*, 1902, Vol. ii. 241; *Monthly Cyclopædia*, v., No. 9, New Series, 331; *Transactions American Therapeutic Society*, 1902.)

Anthrax, Facial and Intestinal. (*Transactions Philadelphia Academy of Surgery*, iv., 1901; *American Medicine*, 1901, 808; *Annals of Surgery*, xxxv. 524, and xxxvi. 451.)

Removal of Foreign Bodies from the Air-Passages. (*Journal of the American Medical Association*, xxxvii.)

1077; *Transactions of Section on Surgery and Anatomy*, American Medical Association, 1901, 423, 437, Chicago, 1902; *Münch. med. Woch.*, September, 1901.)

WILLSON, ROBERT N., JR.

The Practical and Scientific Value of the Blood Examination to the Medical Man and Surgeon. (*American Medicine*, September, 1902.)

A Criticism of a Recent Discussion upon the Value of certain Cases of Blood Examination. (*Ibid.*, March, 1902.)

The Theory of Relative Leucocytosis. (*Philadelphia Medical Journal*, December, 1901.)

Tetanus Appearing in the Course of Vaccinia. (*American Medicine*, December, 1901.)

An Analysis of Fifty-two Cases of Tetanus following Vaccinia. (*Journal of the American Medical Association*, May, 1902.)

Bothriocephalus Latus: Report of a Case of Double Infection. (*American Journal of the Medical Sciences*, August, 1902.)

Carcinoma Limited to the Appendix Vermiformis. (*New York Medical Journal*, August, 1902.)

The Causal Relation of Blood Poverty to Gastric Ulcer. Read before the American Medical Association, at Saratoga, June, 1902. (*Journal of the American Medical Association*, September, 1902.)

WITMER, LIGHTNER.

Analytical Psychology. A Practical Manual for Colleges and Normal Schools, presenting the Facts and Principles of Mental Analysis in the Form of Simple Illustrations and Experiments. (Ginn & Company, Boston, 1902.)

Experimental Studies in Psychology and Pedagogy:

1. Spelling in the Elementary School: An Experimental and Statistical Investigation. By Oliver P. Cornman, Ph.D. (Ginn & Company, Boston, 1902.)
2. The Sensation of Pain and the Theory of the Specific Sense Energies. By Anna J. McKeag, Ph.D. (Ginn & Company, Boston, 1902.)

WOOD, HORATIO C.

Note on the So-called Turkish Bath. (*American Medicine*, Vol iii., No. 18, pp. 722-723, May, 1902.)

WOOD, HORATIO C., JR.

Quinine Rash, with Report of a Case. (*Transactions of the Philadelphia County Medical Society*, November, 1901; *Therapeutic Gazette*, January, 1902.)

On the Effect of Digestion of Gelatin on its Styptic Properties. (*American Medicine*, May, 1902, Vol. iii. p. 729.)

On the Toxic Action of the Decomposition Products of Lecithin. (*University of Pennsylvania Medical Bulletin*, May, 1902.)

A Description of the Methods of Investigating the Action of Drugs. (*International Clinics*, 1902, Eleventh Series, Vol. iv.; Twelfth Series, Vol. i.)

A Physiological Study of the Pulmonary Circulation. (*American Journal of Physiology*, January, 1902, Vol. vi. p. 283.)

YOUNG, JAMES K.

The Treatment of Congenital Club-Foot. (*International Medical Magazine*, September, 1901.)

The Treatment of Hip-Joint Disease. (*Ibid.*, December, 1901.)

Recovery from Hip Disease with Perfect Motion. (*New Albany Medical Herald*, January, 1902.)

- Orthopedic Cases. (*Philadelphia Medical Journal*, February, 1902.)
- The Treatment of Lateral Curvature. (*New Albany Medical Herald*, February, 1902.)
- Diagnosis and Treatment of Tubercular Arthritis. (*Therapeutic Gazette*, June, 1902.)
- Orthopedic Reviews. (*International Medical Magazine*, New York, July, 1902.)

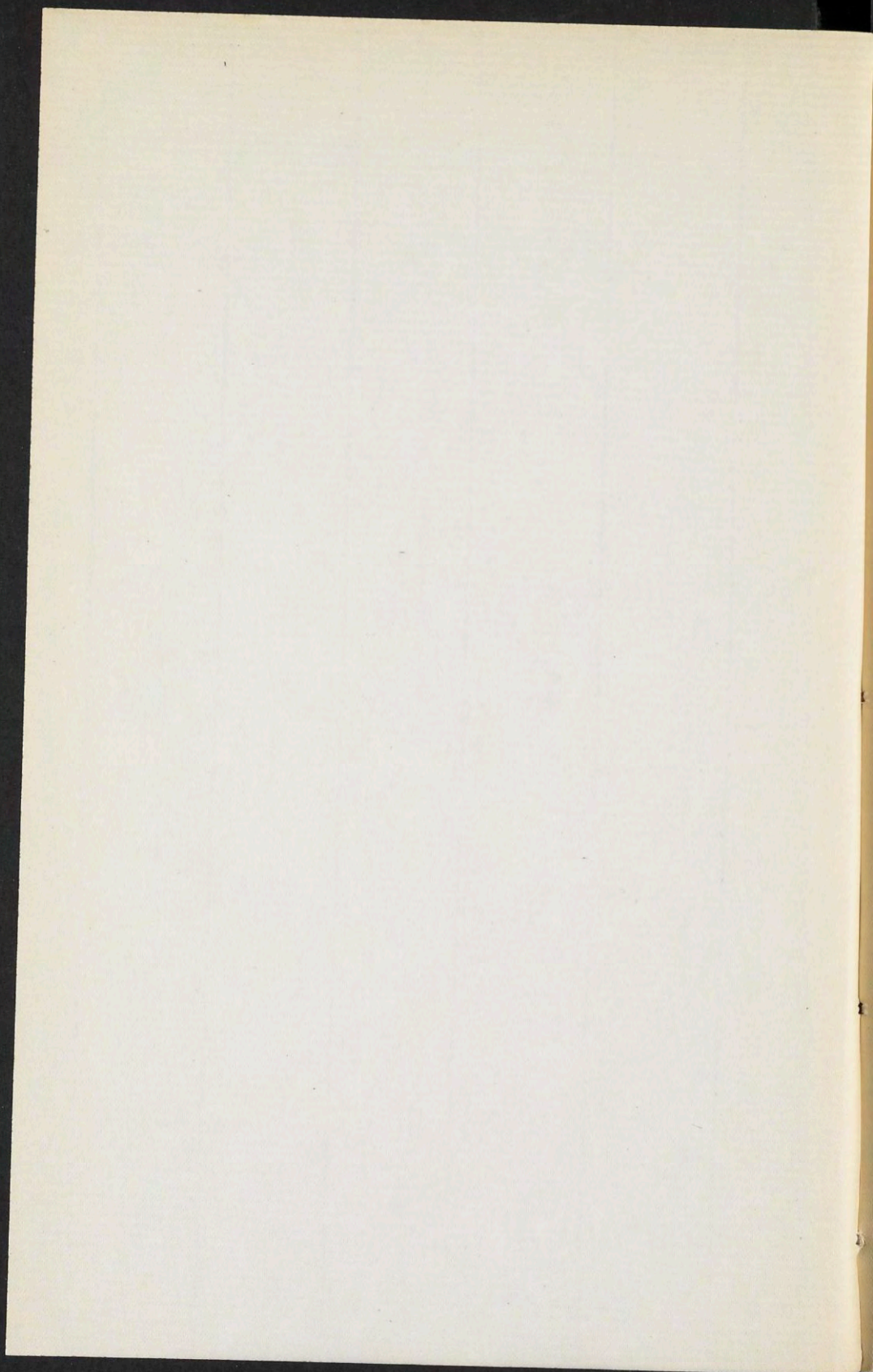
YOUNG, JAMES T.

- Colonial Autonomy. (*Annals of the American Academy of Political and Social Science*, May, 1902.)
- Notes on Porto Rico, Philippines, Hawaii, Cuba, German Colonies. (*Ibid.*)
- Handbook on European Government. Edited for Book-lovers' Library.

TREASURER'S REPORT.



For the Year Ending August 31, 1902.



REPORT OF THE TREASURER OF THE UNIVERSITY OF PENNSYLVANIA.

GENERAL BALANCE SHEET.

Assets:

I. Real Estate	\$5,483,335	82	
II. Libraries, Museums, Apparatus, Furniture, and Perpetual Insurance deposits	1,745,498	22	
III. Securities:			
Railroad and Corporation Bonds	\$2,161,213	83	
Stocks	261,728	83	
			<u>2,422,942</u> 66
Market Value, \$2,535,819.95.			
IV. Mortgages:			
On property in Philadelphia and vicinity.	\$258,470	00	
On property in Chicago, etc.	190,000	00	
			<u>448,470</u> 00
V. Ground Rents			60,620 62
VI. Loans on Collateral			61,123 40
			<u>\$10,221,990</u> 72
VII. Cash Balances in Various Trust Companies and Banks:			
To Credit of Investment Funds:			
University Trusts ..	\$11,576	70	
Building Funds	202,766	52	
Hospital Funds	704	61	
			<u>215,047</u> 83
To Credit of Funds not for Investment:			
University	\$39,491	65	
Hospital	10,213	51	
			<u>49,705</u> 16
To Credit of Income:			
University			3,852 07
To Credit of Administration			25,722 32
			<u>294,327</u> 38
			<u>\$10,516,318</u> 10

Liabilities:

Bonds Central Light and Heat Station	\$60,000 00	
Mortgage, 3451 Woodland Avenue ...	5,500 00	
Mortgage, 3342 Walnut Street	5,000 00	
Obligations of the General Fund	132,878 70	
Advances to Trusts by Administration	21,677 41	
Advances to Land purchases, Building Funds, etc.	72,544 96	
Loan to Veterinary Hospital	10,400 00	
		\$308,001 07
Excess of Assets		\$10,208,317 03

REAL ESTATE.

IN PHILADELPHIA.

IN FIFTH WARD.

Premises No. 131 South Fifth Street	\$17,000 00
“ “ 224 Stampers Street	1,800 00

IN SIXTH WARD.

Premises No. 58 North Fourth Street	20,000 00
“ “ 60 “ “ “	30,000 00
“ “ 62 “ “ “	18,800 00
“ “ 64 “ “ “	14,600 00
“ “ 66 “ “ “	20,000 00
“ “ 66 “ “ “ rear	6,000 00
“ “ 29 and 31 North Seventh Street	20,980 00

IN TWENTY-SEVENTH WARD.

Plot of ground between Thirty-fourth and Thirty-sixth Streets, Spruce Street, and Woodland Avenue, with College Buildings and Medical Hall	643,799 27
Medical Laboratory	69,414 15
Plot of ground between Thirty-sixth, Spruce, Woodland Avenue, Woodland Cemetery, and Guardian Street	250,000 00
Library Building	209,142 08
Veterinary Building	40,358 56
Biological Building	36,844 98
Plot of ground between Connecting Railroad and Thirty-fourth Street	250,000 00
Plot of ground Thirty-third and Marston Street	12,764 46

Plot of ground between Thirty-sixth and Spruce Streets, Woodland Avenue, and Police Station	\$20,000 00
John Harrison Laboratory of Chemistry	113,607 82
Henry Howard Houston Hall	134,544 57
Dormitory Building, first section	344,268 67
Dormitory Building and Memorial Tower, second section	241,948 01
Central Light and Heat Station	186,050 83
Department of Hygiene Building	50,000 00
Department of Hygiene Laboratory	15,001 75
Dog Hospital Building	11,771 30
Premises Nos. 3328, 3330, 3332, 3334, 3336, 3338 Walnut Street	37,000 00
Premises Nos. 3340, 3342, 3344, 3346, 3348, 3350 Walnut Street	47,500 00
Premises No. 1021 Chestnut Street	44,000 00
“ “ 1029 Chestnut Street	50,000 00
“ Chestnut Street Opera House	350,000 00
“ No. 3451 Woodland Avenue	5,500 00
Department of Dentistry Building	129,851 08
Dining Hall	14,799 58
Law School Building and Lot	432,187 38
Museum Science and Art	391,331 08
Randal Morgan Laboratory of Physics	90,464 17
Premises Thirty-third and Locust Streets	35,625 00
New Medical Laboratory	104,871 33
Plot of ground Thirty-fourth to Thirty-sixth and Spruce to Pine Streets	125,000 00
Hospital Buildings	243,743 92
Gibson Wing	65,000 00
Nurses' Home	20,000 00
Nurses' Home, New Building	28,598 37
Mortuary Building	11,000 00
Maternity Building	29,000 00
Agnew Memorial Pavilion	166,645 57
Pepper Clinical Laboratory	50,000 00
James Dundas Clinic	6,098 67
Anna D. Scott Memorial	15,000 00

IN TWENTY-NINTH WARD.

Premises No. 3011 Girard Avenue	5,300 00
---------------------------------------	----------

IN THIRTY-NINTH WARD.

Twenty-three and one-half acres on Delaware River	100,000 00
Two and eighty-seven one-hundredths acres on Moore Street	20,000 00

University of Pennsylvania.

IN DELAWARE COUNTY, PENNSYLVANIA.

Reese Wall Flower Farm	\$30,000 00
“ “ “ Observatory Buildings	12,796 84
“ “ “ Professor's House	11,808 25

IN ELK AND MCKEAN COUNTIES, PENNSYLVANIA.

About seven hundred acres	5,054 71
---------------------------------	----------

IN LIGONIER, WESTMORELAND COUNTY, PENNSYLVANIA.

Sundry lots of ground	7,000 00
-----------------------------	----------

IN SEA ISLE CITY, NEW JERSEY.

Marine Biological Laboratory	4,000 00
------------------------------------	----------

IN MANCHESTER, MASSACHUSETTS.

Sundry lots of ground	15,463 42
-----------------------------	-----------

\$5,483,335 82

LIBRARIES, MUSEUMS, APPARATUS, FURNITURE, AND PERPETUAL INSURANCE.

College Apparatus and Furniture	\$112,000 00
Department of Medicine and Furniture	98,062 18
Department of Law and Furniture	146,419 04
Department of Dentistry and Furniture	26,850 08
Department of Hygiene and Furniture	19,874 28
Department of Veterinary Medicine, Hospital Apparatus, and Furniture	11,422 00
University Library—Books and Furniture	444,220 04
New Engineering Building	2,388 47
Museum Science and Art Collections and Furniture	690,000 00
New Medical Laboratories	2,552 10
Wistar and Horner Museum Collections and Furniture	40,000 00
Towne Fossils Collections and Furniture	5,011 13
Flower Observatory Apparatus and Furniture	24,098 78
Hospital Furniture	60,511 43
Houston Hall Furniture	22,891 21
Dormitory Furniture	12,944 38
Dining Hall Furniture	1,200 00

\$1,720,445 12

Perpetual Insurance Deposits:

On College Buildings	\$10,680 00
“ Veterinary Buildings	900 00
“ Hospital Buildings	4,947 50
“ Hospital Buildings, Gibson Wing	900 00
“ Hospital Buildings, Nurses' Home	900 00
“ Biological Buildings	300 00
“ Central Light and Heat Station	1,000 00
“ Department of Hygiene Building	875 00
“ Chemical Laboratory Building	1,200 00
“ Department of Dentistry Building	2,565 00
“ Flower Observatory Building	200 00
“ Trust Properties in the City	585 60

\$25,053 10

SECURITIES.

RAILROAD AND CORPORATION BONDS.

	Cost.	Market Value, Sept. 1, 1902.
5,000 Chicago Gas Light & Coke Co. 1st Mtg. 5's, 1937.....	\$5,000 00	\$5,450 00
76,000 Reading Co. and P. & R. Coal and Iron Co. Gen. Mtg. 4's, 1907	69,563 75	73,720 00
3,000 Phila. & Reading R. R. Cons. 7's, 1911	3,000 00	3,690 00
25,000 Phila. & Reading R. R. 4's, 1937	25,000 00	26,875 00
12,000 Elmira & Williamsport R. R. Co. In- come Bonds, 5's, 2862	12,000 00	13,800 00
2,000 Penna. R. R. Co. Cons. Mtg. 6's, 1905	1,924 00	2,120 00
1,000 Susquehanna Coal Co., Guar. by Penna. R. R. Co. 6's, 1911	1,000 00	1,170 00
25,000 Toledo, O., Electric Street Railway Co. 1st Mtg. 5's, 1912	25,000 00	25,375 00
5,000 Metropolitan Street Railway, Kansas City, Mo., Gen. Mtg. 5's, 1909...	4,894 17	5,200 00
30,000 Evansville & Terre Haute R. R. 1st Mtg. 5's, 1942	30,600 00	32,400 00
17,000 Bethlehem Iron Co. 1st Mtg. 5's, 1907	17,000 00	17,510 00
50,000 International Nav. Co. 1st Mtg. 5's, 1929	50,000 00	50,000 00
13,000 Norfolk & Western R. R. 1st Mtg. 6's, 1932	13,000 00	17,030 00
58,000 Atlanta Gas Light Co. 1st Mtg. 5's, 1947	56,750 00	60,900 00

	Cost.	Market Value, Sept. 1, 1902.
101,000 San Antonio & Aransas Pass. R. R. 1st Mtg. 4's, 1943	\$97,405 00	\$87,870 00
2,500 County of St. Louis, Minn., 6's, 1907	2,500 00	2,725 00
2,500 Wilmington, Columbia & Augusta R. R. 1st Mtg. 6's, 1910	2,500 00	2,825 00
1,350 Lehigh Coal & Nav. Co. Cons. Loan 4½'s, 1914	1,471 50	1,424 25
5,000 Columbus & Indianapolis Central R. R. 2d Mtg. 7's, 1904	5,000 00	5,275 00
13,000 Wabash R. R. Co. 2d Mtg. 5's, 1939..	13,300 00	14,040 00
2,000 Saitzburg Coal Co. Gen. Mtg. 6's, 1914	2,000 00	1,000 00
3,000 Pittsburg, Shenango & Lake Erie R. R. 1st Mtg. 5's, 1940	3,000 00	3,570 00
5,000 Fairmount Coal & Coke Co. 1st Mtg. 4's, 1919	5,000 00	1,250 00
150,000 Phila. & Reading Coal & Iron Co. 5-10-year 6's, 1904	152,500 00	150,375 00
22,000 City of Galveston, Tex., 40-year Ltd. 5's, 1934	22,000 00	22,000 00
25,000 Lehigh Valley R. R. Mtg. and Collat. Trust 5's, 1907	25,000 00	26,750 00
53,000 Erie R. R. prior lien 4's, 1906	48,082 50	51,675 00
25,000 Scranton Traction Co. 1st Mtg. 6's, 1932	25,000 00	29,000 00
22,000 Ohio River R. R. 1st Mtg. 5's, 1936..	22,660 00	25,300 00
97,000 Equitable Ill. Gas. L. Co. 1st Mtg. 5's, 1928	98,410 00	104,760 00
12,000 Choctaw, Oklahoma & Gulf R. R. Gen. Mtg. 5's, 1919	12,050 00	13,020 00
10,000 Raleigh & Gaston R. R. 1st Mtg. 5's, 1947	10,332 50	11,800 00
10,000 Syracuse Rapid Transit Co. 1st Mtg. 5's, 1946	10,000 00	10,200 00
5,000 Union Pacific R. R. 1st Mtg. land grant 4's, 1947	3,500 00	5,150 00
40,000 Pittsburg Consol. Gas. Co. 1st Mtg. 5's, 1948	41,000 00	44,800 00
3,300 Bloomsburg & Sullivan R. R. 1st Mtg. 5's, 1928	3,300 00	2,805 00
1,600 Bloomsburg & Sullivan R. R. 2d Mtg. 5's, 1928	1,600 00	640 00
200 Bloomsburg & Sullivan R. R. Scrip	66 66	
23,000 Kansas City, Mo., Gas. Co. 1st Mtg. 5's, 1922	21,882 50	23,460 00

Treasurer's Report.

193

	Cost.	Market Value, Sept. 1, 1902.
500 Phila. Country Club 1st Mtg 5's, 1940	\$500 00	\$500 00
2,000 Buffalo & Susquehanna R. R. 1st Mtg. 5's, 1913	1,990 00	2,060 00
21,000 Second Ave. (Pittsburg) Traction Co. 1st Mtg. 5's, 1934	21,000 00	24,360 00
29,000 Chicago & Erie R. R. 1st Mtg. 5's, 1982	31,975 00	35,090 00
2,000 Brooklyn, N. Y., Union Gas Co. 1st Mtg. 5's, 1945	2,000 00	2,320 00
10,000 Lehigh Valley Car Trust 5's, 1900- 1904	10,000 00	10,000 00
30,000 Central Light & Heat Station 5 4-10's	30,000 00	30,000 00
132,878.70 Obligation of the University	132,878 70	132,878 70
34,000 Lehigh Valley Coal Co. 1st Mtg. 5's, 1933	33,850 00	36,720 00
25,000 St. Louis Merchants' Bridge Co. 1st Mtg. 6's, 1929	25,000 00	28,750 00
9,000 Sunbury, Hazleton & Wilkesbarre R. R. 1st Mtg. 5's, 1928	8,380 00	9,540 00
400 Sunbury, Hazleton & Wilkesbarre R. R. 2d Mtg. 6's, 1938	393 50	460 00
25,000 St. Louis Terminal Cupples Station and Property 1st Mtg. 4½'s, 1917	24,468 75	25,500 00
25,000 Consumers' Light, Heat, and Power Co. 1st Mtg. 5's, 1938.....	25,000 00	25,250 00
1,000 City of Pittsburg Refunding 5's, 1910	1,130 00	1,120 00
1,000 Central R. R. of N. J. Gen. Mtg. 5's, 1987	1,120 00	1,360 00
6,000 Phila. & Erie R. R. Gen. Mtg. 5's, 1920	7,080 00	7,200 00
25,000 Citizens' Railway, Indianapolis, 1st Cons. Mtg. 5's, 1933	24,000 00	27,250 00
25,000 Phila. & West Chester Traction Co. 1st Mtg. 5's, 1918	25,000 00	26,250 00
10,400 Veterinary Hospital Bonds	10,400 00	10,400 00
40,000 Wilmington & Chester Traction Co. Collat. Trust 5's, 1918	40,632 50	42,000 00
34,000 Williamsport Gas Co. 1st Mtg. 5's, 1939	34,420 00	35,700 00
25,000 North Hudson Light, Heat, and Power Co. Mtg. 5's, 1938	25,000 00	25,375 00
50,300 Electric & People's Traction Trust Certf. 4's, 1945	49,953 75	49,000 00
25,000 Baltimore & Ohio R. R. 1st Mtg. 4's, 1948	25,050 00	25,250 00

	Cost.	Market Value, Sept. 1, 1902.
44,000 Baltimore & Ohio R. R. prior lien 3½'s, 1925	\$40,687 50	\$40,920 00
30,000 Hudson County Gas Co. 1st Mtg. 5's, 1949	30,000 00	30,900 00
10,000 Northern Pacific R. R. prior lien 4's, 1997	10,000 00	10,300 00
60,000 Jersey City, Hoboken & Paterson Street Railway 1st Mtg. 4's, 1949	50,000 00	46,800 00
25,000 United Railways Co. Gold Trust 4's, 1949	21,250 00	22,000 00
25,000 Norfolk & Western R. R. 1st Cons. Mtg. 4's, 1996	24,437 50	25,000 00
55,000 Western N. Y. & Penna. R. R. Gen. Mtg. 4's, 1943	52,391 25	54,450 00
20,000 St. Louis, Iron Mountain & Southern R. R. land grant 5's, 1931	20,000 00	22,800 00
5,000 Phila. Electric Gold Trust 5's, 1948 ..	4,993 75	5,000 00
6,000 Lehigh Valley R. R. Car Trust 4½'s, 1910	6,120 00	6,000 00
25,000 Lehigh Valley Traction Co. 1st Mtg. 4's, 1929	23,000 00	21,750 00
1,000 Tuckerton R. R. Co. 1st Mtg. 6's, 1910	1,000 00	800 00
50,000 Chesapeake & Ohio R. R. Gen. Mtg. 4½'s, 1992	50,000 00	52,000 00
25,000 Schuylkill Traction Co. Gold Mtg. 5's, 1943	25,000 00	25,000 00
10,000 Michigan Lake Superior Power Co. 1st Mtg. 5's, 1949	10,000 00	9,100 00
35,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1990	34,743 75	34,650 00
5,000 Southern Pacific R. R. Stock Collat. 4's, 1949	5,000 00	4,600 00
5,000 Lehigh Valley R. R. Reg. 7's, 1910 ..	5,000 00	6,000 00
10,000 Connecticut Railway & Lighting Co. 1st Mtg. 4½'s, 1951	10,000 00	9,800 00
35,000 Louisville & Nashville R. R. Unified Gold 4's, 1940	35,400 00	35,350 00
10,000 Third Avenue R. R. 1st Consol. Mtg. 4's, 2000	10,150 00	9,900 00
30,000 Long Island R. R. Unified Mtg. 4's, 1949	30,225 00	30,000 00
25,000 Norfolk & Western R. R. Equip. Trust 4's, 1909	24,522 50	24,500 00

Treasurer's Report.

195

	Cost.	Market Value, Sept. 1, 1902.
23,000 Wheeling & Lake Erie R. R. 1st Consol. Mtg. 4's, 1949	\$21,562 50	\$21,160 00
40,000 United Railways of St. Louis 1st Gen. Mtg. 4's, 1934	36,300 00	34,400 00
22,000 West Chester Lighting Co. 1st Mtg. 5's, 1950	22,140 00	22,440 00
16,000 City of Philadelphia 3½'s, 1912	17,212 80	16,480 00
5,000 Indianapolis Street Railway Co. Gen. Mtg. 4's, 1933	4,362 50	4,300 00
500 Roby Street Dock & Factories Co. 6's, 1907	500 00	500 00
	<hr/>	<hr/>
	\$2,161,213 83	\$2,218,187 95

STOCKS.

	Cost.	Market Value, Sept. 1, 1902.
16 shares Lehigh Valley R. R. pfd.	\$800 00	\$960 00
120 " Wm. Cramp & Sons Ship and En- gine Bldg. Co.	6,000 00	9,000 00
61 " Norfolk & Western R. R.	5,550 00	4,758 00
10 " American Dredging Co.	1,000 00	1,500 00
10 " Lehigh Coal & Nav. Co.	500 00	770 00
500 " Delaware & Bound Brook R. R. ...	105,500 00	105,500 00
408 " Pennsylvania R. R. Co.	22,221 08	34,680 00
27 " Brooklyn Union Gas Co. Com. ...	2,160 00	6,831 00
238 " Phila. & Reading R. R. 2d pfd. ...	7,042 00	9,520 00
134 " Safe Deposit & Trust Co., Pitts- burg, Pa.	7,370 00	15,410 00
25 " Union Pacific R. R. pfd.	1,500 00	2,375 00
10 " American Snuff Co. pfd.	1,000 00	990 00
80 " Fidelity Trust Co.	35,600 00	52,400 00
22 " Provident Life & Trust Co.	9,482 00	15,400 00
58 " Penna. Salt Mfg. Co.	6,290 00	6,496 00
500 " United Traction Co., Pittsburg, Pa., pfd.	25,000 00	26,000 00
250 " Philadelphia Traction Co.	24,183 75	24,500 00
3 " Insurance Co. of North America	30 00	72 00
10 " Philadelphia Co. com.	500 00	470 00
	<hr/>	<hr/>
	\$261,728 83	\$317,632 00

MORTGAGES

ON PROPERTY IN PHILADELPHIA AND VICINITY.

No. 707 Lydia Street	\$700 00
Nos. 752 and 754 South Eighth Street	4,000 00
Wallace and Nineteenth Streets	6,000 00
Lancaster Avenue and Rockland Street	2,750 00
Cheltenham Township, Montgomery County, Pa.	10,000 00
Cheltenham Township, Montgomery County, Pa.	3,000 00
Jenkintown, Pa.	4,320 00
Auburn and Tenth Streets	9,000 00
Washington Avenue and Twenty-first Street	35,000 00
No. 4044 Powelton Avenue	3,000 00
Nos. 2262, 2318, and 2320 North Front Street	8,000 00
Northeast corner Woodland Avenue and Thirty-fourth Street	2,500 00
No. 1343 Mount Vernon Street	2,700 00
No. 2977 Frankford Avenue	4,000 00
No. 2987 Frankford Avenue	4,000 00
Camden, N. J.	7,500 00
Thirty-fifth Ward, Philadelphia	80,000 00
No. 1730 Pine Street	9,000 00
Glenloch, Chester County, Pa.	38,000 00
City Line and Washington Lane	14,000 00
No. 549 North Second Street	3,000 00
No. 3342 Walnut Street	5,000 00
Manchester, Mass.	1,000 00
Gray's Ferry Road and Thirtieth Street	2,000 00

 \$258,470 00

COUPON MORTGAGES.

In Chicago, Ill.	\$8,500 00
" " "	25,000 00
" " "	25,000 00
" " "	10,000 00
" " "	20,000 00
" " "	10,000 00
" " "	2,500 00
" " "	2,000 00
" " "	16,000 00
" " "	15,000 00
" Kansas City, Mo.	20,000 00
" Olympia, Wash.	6,000 00
" Lincoln, Neb.	30,000 00

 \$190,000 00

GROUND RENTS IN PHILADELPHIA, ETC.

No. 29 North Sixth Street	\$2,500 00
No. 533 North Front Street	426 67
No. 535 North Front Street	426 67
No. 537 North Front Street	425 67
Green and New Market Streets	111 11
Moore and Otsego Streets	3,000 00
Oakford, Manton, and Twenty-second Streets, eight at \$800 each	6,400 00
Stiles and Nineteenth Streets	900 00
Gray's Ferry Road	42,519 00
No. 110 Spruce Street	1,866 67
Nos. 13 and 15 Parkham Street	400 00
No. 618 South Seventh Street	444 50
No. 128 North Water Street	1,133 33
Lebanon, Pa.	66 00
	<hr/>
	\$60,620 62
Loans on Collateral	\$46,000 00
“ “ “	10,123 40
“ “ “	5,000 00
	<hr/>
	\$61,123 40

ENDOWMENT FUNDS—UNIVERSITY.

	Amount Invested.	Amount Uninvested.
General Fund	\$3,013,731 30	\$475 75
J. Herman Raht Memorial Fund	250 00	
Phi Kappa Sigma Fund	400 00	
Keble Fund	13,193 41	
Elliott Cresson Fund	4,419 33	
Tobias Wagner Fund	5,300 00	
Bloomfield Moore Fund	15,000 00	
Thomas A. Scott Fund	50,000 00	
John H. Towne Fund	450,841 01	512 00
John Welsh Fund	51,912 24	
A. Whitney Fund	50,038 43	
Scholarship Fund	4,644 57	
Benjamin Franklin Scholarship Fund	10,026 12	
Samuel V. Merrick Scholarship Fund	3,560 60	
Matthew Baird Scholarship Fund	5,013 06	
E. Otis Kendall Scholarship Fund	5,000 00	
A. Seybert Fund	53,045 74	
Chair of Christian Ethics Fund	3,015 36	
Alumni Hall Fund	6,663 79	
Hector Tyndale Fellowship Fund	12,194 78	
S. W. Roberts Fund	1,114 83	
Wharton School Fund	238,425 00	
Assyrian Fellowship Fund	189 55	
Pepper Professorship of Hygiene Fund	59,400 00	
J. Rhea Barton Fund	49,920 48	
J. Gillingham Fell Fund	1,243 69	
Auxiliary Faculty Medicine Fund	31,340 16	
Leidy Chair of Anatomy Fund	1,994 49	
Botanical Garden Fund	4,302 99	
Department of Biology Fund	63,155 22	
I. V. Williamson Fund	47,488 00	42 00
George S. Pepper Residuary Legatee Fund..	34,020 87	10 50
Frances S. Pepper Scholarship Fund	7,150 00	
Chair of Pedagogy Fund	250 00	
Henry Reed Prize Fund	743 12	
Latin Prize Fund	1,025 80	
Oratory Prize Fund	360 80	
English Composition Prize Fund	200 00	
Arthur Spayd Brooke Memorial Prize Fund	1,000 00	
J. Warner Yardley Prize Fund	500 00	

Treasurer's Report.

199

	Amount Invested.	Amount Uninvested.
Class 1880 Prize Fund	\$1,000 00	
Joseph M. Bennett Bequest Fund	503,212 80	\$2,764 78
Allen Memorial Prize Fund	1,000 00	
P. Pemberton Morris Fund	1,000 00	
Rev. C. P. Krauth Library Fund	1,621 06	
Agricultural Library Fund	916 00	
Pepper Medical Library Fund	7,708 19	
Tobias Wagner Library Fund	10,314 26	
J. B. Lippincott Library Fund	7,000 00	
Isaac Norris Library Fund	5,233 69	
Reese Wall Flower Fund	107,282 24	I 42
John Harrison Laboratory of Chemistry ..	114,829 82	
Veterinary Fund	82,930 56	
J. M. Bennett Endowment for Women	17,500 00	
Howard Houston Hall Fund	157,435 78	
Houston Hall Endowment Fund	500 00	
Dormitory Building Fund	355,016 58	
Dining-Hall Building Fund	14,799 58	
Dental Hall Building Fund	159,266 16	
Wistar and Horner Museum Fund	40,110 11	
Department of Law Fund	7,735 08	
John F. Fraser Fellowship Fund.....	11,259 37	
Department of Hygiene Fund	189,559 97	75 00
Laboratory of Hygiene Fund	15,001 75	
Thomas A. Scott Fellowship Fund	11,725 00	
J. M. Bennett Endowment Graduate Depart- ment	45,737 50	
A. S. Biddle Law Department Fund	20,250 00	
Simon Muhr Scholarship Fund	9,525 60	
George L. Harrison Foundation	585,957 50	943 23
Stillé Memorial Library Fund		1,000 00
Powers Professors' Salary Fund	1,025 00	
John Stewardson Memorial Fund	17,761 06	10 50
Bond Interest Fund		2,139 83
John White Field and Francis Peters Scholarship Fund	10,000 00	
Pepper Hall Endowment Fund	50,012 50	
James Logan Scholarship Fund	5,000 00	
Robert Morris Scholarship Fund	5,000 00	
Garrett Scholarship Fund	10,000 00	
Louise Harrison Scholarship Fund	5,122 50	
University Fund for Women	100 00	
Professors' Retiring Fund	6,776 25	
Thomas S. Stewart Scholarship Fund	5,000 00	
Hartman Kuhn Scholarship Fund	5,000 00	

	Amount Invested.	Amount Uninvested.
Thomas H. Powers Scholarship Fund	\$5,000 00	
Charles Brinton Coxe Scholarship Fund	5,000 00	
Cadwalader Scholarship Fund	2,025 00	
Rev. James Latta, D.D., Scholarship Fund . .	5,000 00	
Stephen Greene Scholarship Fund	5,100 00	
Sinking Fund		\$3,601 69
	<hr/>	
	\$6,930,425 65	\$11,576 70
Building Funds.		
	Amount Invested.	Amount Uninvested.
Museum Science and Art	\$391,831 08	
New Medical Laboratory	111,871 33	\$76,669 06
Dormitories and Memorial Tower, Second Section	298,144 48	14,403 33
Law School and Lot	581,606 42	2,109 70
Randal Morgan Laboratory of Physics	90,464 17	
Lot Thirty-third and Locust Streets	35,625 00	
New Engineering Department	2,388 47	100,636 53
New Medical Laboratory Apparatus	2,552 10	8,947 90
	<hr/>	
	\$1,514,483 05	\$202,766 52
Endowment Funds,—Hospital.		
	Amount Invested.	Amount Uninvested.
General Fund	\$887,409 57	
Hahn Ward Fund	54,689 75	
Alumni Ward Fund	10,045 25	
Mrs. G. W. Norris Fund	10,000 00	
Bement Fund	5,000 00	
Ward Chronic Diseases Fund	197,096 56	
Pepper Clinical Laboratory Fund	25,030 00	
I. V. Williamson Fund	47,440 00	
Children's Ward Fund	32 07	
Henry Seybert Fund	60,317 31	\$45 45
George S. Pepper Fund	72,832 33	
Recto-Genito-Urinary Disease Fund	4,100 39	
Anna M. Powers Bed Fund	6,000 00	
Mary W. Eskens Bed Fund	5,000 00	
Dr. D. Hayes Agnew Hospital Fund	171,645 57	
Dr. D. Hayes Agnew Bequest for Care of Sick Children	50,000 00	
Dr. D. Hayes Agnew Bequest for Maternity Hospital	1,000 00	
Andrew C. Butler Fund	5,432 67	

Treasurer's Report.

Endowment Funds,—Hospital.	Amount Invested.	Amount Uninvested.
Ligonier Bed Fund	\$38,111 81	
Children's Orthopædic Ward Fund	14,140 00	
Ladies' Fund Maternity Hospital	357 44	
A. Sydney Roberts Apparatus Fund	6,264 54	
John White Field Bed Fund	5,000 00	
Abby Willing Peters Bed Fund	5,000 00	
Maternity Fund	16,000 00	
Edward Rhoads Memorial Fund	3,405 51	
Alfred Gustavus Baker Bed Fund	5,000 00	
Abraham and Mary Baker Bed Fund	5,100 00	
Mary B. K. Wainwright Bed Fund	5,000 00	
Hamilton Disston's Bed Fund	3,000 00	
Percival Roberts Bed Fund	3,000 00	
Thomas Harrison Bed Fund	5,100 00	
Langstroth Bed Fund	500 00	
Richard Heckscher Bed Fund	5,031 25	
Woodward Fellowship Fund	20,000 00	
Josephine S. Wentz Bed Fund	5,000 00	
Thomas Elkinton Fund	4,000 00	\$659 16
Anna D. Scott Memorial Fund	15,000 00	
	\$1,777,082 02	\$704 61

Income Account.	Amount received, including Balance, August 31, 1901.	Amount Expended.	Balance.
General Fund	\$2,359 93	\$2,346 93	\$13 00
J. Herman Raht Fund	10 00	10 00	
Phi Kappa Sigma Fund	16 00	16 00	
Keble Fund	933 54	933 54	
Elliott Cresson Fund	204 10	204 10	
Tobias Wagner Fund	212 00	212 00	
Bloomfield Moore Fund	762 75	762 75	
Thomas A. Scott Fund	2,471 36	2,471 36	
John H. Towne Fund	16,463 91	16,463 91	
John Welsh Fund	2,364 04	2,319 04	45 00
A. Whitney Fund	2,444 50	2,444 50	
Scholarship Fund	209 64	209 64	
Benjamin Franklin Scholarship Fund	451 30	451 30	
Samuel V. Merrick Scholarship Fund	157 90	157 90	
Matthew Baird Scholarship Fund	300 66	300 66	
E. Otis Kendall Scholarship Fund	600 00	600 00	
A. Seybert Fund	2,714 78	2,714 78	

Income Account.	Amount received, including Balance, August 31, 1901.	Amount Expended.	Balance.
Chair Christian Ethics Fund	\$150 76	\$150 76	
Alumni Hall Fund	295 68	295 68	
Hector Tyndale Fellowship Fund	612 06	612 06	
S. W. Roberts Fund	47 24	47 24	
Wharton School Fund	8,941 00	8,941 00	
Assyrian Fellowship Fund	9 48	9 48	
Pepper Professorship of Hygiene Fund	3,046 52	3,046 52	
J. Gillingham Fell Fund	2 00	2 00	
J. Rhea Barton Fund	1,544 52	1,544 52	
Auxiliary Faculty Medicine Fund	1,253 59	1,253 59	
Leidy Chair Fund	64 96	64 96	
Botanical Garden Fund	207 38	207 38	
Department of Biology Fund	52	52	
I. V. Williamson Fund	2,765 56	2,510 56	\$255 00
George S. Pepper Residuary Legatee Fund	1,466 39	1,466 39	
Frances S. Pepper Scholarship Fund	337 22	337 22	
Chair of Pedagogy Fund	11 88	11 88	
Henry Reed Prize Fund	68 71	25 00	43 71
Latin Prize Fund	94 77	65 00	29 77
Oratory Prize Fund	17 16	16 89	27
English Composition Prize Fund	30 33	16 00	14 33
Arthur Spayd Brooke Prize Fund	90 00	50 00	40 00
J. Warner Yardley Prize Fund . .	53 72		53 72
Class of 1880 Prize Fund	150 17		150 17
Joseph M. Bennett Bequest	26,212 30	26,212 30	
Allen Memorial Prize Fund	70 98	60 00	10 98
P. Pemberton Morris Prize Fund	40 14	40 00	14
Krauth Library Fund	158 76	49 90	108 86
Agricultural Library Fund	85 36	83 15	2 21
Dr. Wm. Pepper Medical Prize Fund	588 82	412 73	176 09
Tobias Wagner Prize Fund	554 66	547 59	7 07
J. B. Lippincott Prize Fund	744 58	591 24	153 34
Isaac Norris Prize Fund	348 49	266 06	82 43
Reese Wall Flower Fund	1,697 00	1,422 54	274 46
Veterinary Fund	843 15	843 15	
Houston Hall Endowment Fund.	23 74	23 74	
Dormitory Fund	200 00	200 00	
Wistar and Horner Museum Fund	5 50	5 50	
Department of Law Fund	309 76	309 76	

Treasurer's Report.

203

Income Account.	Amount received, including Balance, August 31, 1901.	Amount Expended.	Balance.
John F. Fraser Fund	\$483 14	\$483 14	
Department Hygiene Fund	6,022 01	6,022 01	
T. A. Scott Fellowship Fund....	675 00	675 00	
James M. Bennett Endowment Graduate Department	2,689 09	2,548 19	\$140 90
A. Sydney Biddle Fund	998 15	998 15	
Simon Muhr Scholarship Fund..	441 28	441 28	
George L. Harrison Foundation..	28,684 11	28,684 11	
John Stewardson Memorial Fund	1,853 18	522 26	1,330 92
New Medical Laboratory Fund...	600 00	600 00	
John White Field and Francis Peters Scholarship Fund ...	485 40	445 40	40 00
Pepper Hall Endowment Fund..	2,723 00	2,198 00	525 00
James Logan Scholarship Fund..	250 00	250 00	
Robert Morris Scholarship Fund	250 00	250 00	
Garrett Scholarship Fund	466 04	466 04	
Louise Harrison Scholarship Fund	240 00	240 00	
University Fund for Women	8 00		8 00
Professors' Retiring Fund	360 45	13 75	346 70
Law School Building Fund.....	1,511 30	1,511 30	
Thomas S. Stewart Scholarship Fund	200 00	200 00	
Hartman Kuhn Scholarship Fund	250 00	250 00	
Thomas H. Powers Scholarship Fund	308 38	308 38	
New Dormitory Building Fund..	2,400 00	2,400 00	
Charles Brinton Coxe Scholarship Fund	200 00	200 00	
Annie Wolf Scholarship Fund...	16 17	16 17	
Cadwalader Scholarship Fund...	40 00	40 00	
Rev. James Latta Scholarship Fund	200 00	200 00	
Stephen Greene Scholarship Fund	200 00	200 00	
	<hr/> \$138,375 97		<hr/> \$3,852 07
Less Balances August 31, 1901	4,607 98		
Net Income	<hr/> \$133,767 99		

FUNDS NOT FOR INVESTMENT.

	Amount received, including Balance, August 31, 1901.	Amount Expended.	Balance.
John C. Ropes Prize Fund	\$4 95		\$4 95
Botanic Garden Fund	2,742 98	\$2,633 64	109 34
Latin Prize Fund	22 00		22 00
Library Fund—Philosophy	1,506 88	1,108 24	398 64
Library Fund—Mediæv. Philos...	73 62	9 88	63 74
Library Fund—E. Burgess Warren	195 82	47 89	147 93
Library Fund—Periodicals	4,299 77	1,347 93	2,951 84
Library Fund—Botany	785 98	499 48	286 50
Eckley B. Coxe, Jr., Fund	3,608 29		3,608 29
General Alumni Office Fund	480 00	12 00	468 00
Library Fund—Hough Collection	1,500 00	1,500 00	
Library Fund—Spec. App. No. 3	6 20	6 20	
Library Fund—Architecture	50 00	50 00	
Mrs. E. W. Harrison Fund for Collection of Casts	26 27		26 27
Palestine Exploration Fund	400 00	400 00	
Fellowship Department, Philoso- phy	250 00		250 00
Civil Engineering Equipment Fund	850 00	500 00	350 00
Architecture Lecture Fund	93 17	83 25	9 92
Architecture Publication Fund ..	1,000 00	1,000 00	
Architecture Salary Fund	1,100 00		1,100 00
Architecture Equipment Fund ...	1,224 43	1,224 43	
University Publication Fund	4,245 23	3,005 11	1,240 12
1887's House Dormitory Fund...	526 00	526 00	
Library Fund—Music	275 49	3 75	271 74
Library Fund—Astronomy	40 00	40 00	
Library Fund—Insurance	10 00		10 00
Library Fund—Dante	125 00	7 55	117 45
Library Fund—Pathology	25 05	25 05	
Architecture, General Fund for Casts	71 52		71 52
Architecture, Peabody Fund	103 17		103 17
Frazier Debating Prize Fund	100 00	100 00	
Fellowship in English Fund	187 50		187 50
Vivarium Fund	150 00	150 00	
Library Fund—English Parlia- mentary Reports	285 62	223 93	61 69
Chilton Prize Fund	150 00	150 00	

Treasurer's Report.

205

	Amount received, including Balance, August 31, 1901.	Amount Expended.	Balance.
Teachers' Prize Fund	\$500 00	\$250 00	\$250 00
Delano Prize Fund	50 00	50 00	
Locust Street Improvement Fund	14 38		14 38
Gymnasium Fund	6,510 00	6,510 00	
Library Fund—Current Expenses	240 25	118 00	122 25
Mechanical Engineering Depart- ment Advertising Fund	8 20		8 20
Lippincott Fund, Veterinary De- partment	4,000 00	3,500 00	500 00
Law School Opening Publication Fund	823 50	823 50	
New York Alumni House Dormi- tory Fund	250 00	250 00	
Y. M. C. A. Boys' Club	600 00	500 00	100 00
Electro-Chemical Apparatus Fund	1,780 00	1,393 60	386 40
Several Friends of the University	55,605 00	45,000 00	10,605 00
Lectures on Roman Law.....	200 00	200 00	
Contributions to Salary Adminis- tration Library	200 00	200 00	
History of the College	1,224 85	45 00	1,179 85
College Museum Fund	1,240 24	1,240 24	
Contributions to Current Ex- penses University	40,791 69	30,787 79	10,003 90
Law Library Fund	7,540 11	7,235 41	304 70
Free Lecture Fund	1,100 04	1,100 04	
Library Auction Fund	02	02	
Architecture Lantern Fund	33 93		33 93
Needy Students' Fund	5,227 50	4,227 50	1,000 00
Campus Fund	5,043 56	1,921 13	3,122 43
			<hr/> <hr/> \$39,491 65

AMOUNTS PAID ON ACCOUNT SUNDRY TRUSTS.

Library—Philosophy	\$3 50
Library—Hough Collection	1,500 00
Library—Parliamentary Reports	223 93
General Alumni Office	12 00
Palestine Exploration	400 00
Architecture Lecture	83 25
Architecture Publication	1,000 00
Architecture Equipment	1,224 43
University Publication	3,005 11
John Stewardson Memorial	643 98
Frazier Debating Prize	100 00

Needy Students' Aid	\$1,055 00
Teachers' Prize	250 00
Gymnasium	6,510 00
Pepper Hall Endowment	2,198 00
Law School Opening Publication	823 50
Y. M. C. A. Boys' Club	500 00
Electro-Chemical Apparatus	393 60
Medical Bulletin	1,488 17
History of the College	45 00
College Museum	1,240 24
Contributions to Current Expenses University	1,552 59
Free Lecture	1,080 04
Campus	1,646 77
	<hr/>
	\$26,979 11

BUILDINGS AND GROUNDS.

New Medical Laboratory	\$63,412 22
New Medical Laboratory Apparatus	2,552 10
New Engineering Department	2,388 47
Law School and Lot	11,886 71
Randal Morgan Laboratory of Physics	7,161 86
New Dormitories	6,696 47
Memorial Tower	249 56
	<hr/>
	\$94,347 39

UNIVERSITY TRUST ACCOUNT.

BALANCE SHEET.

Dr.	
To Balance, August 31, 1901	\$59,852 97
“ Income from Invested Funds	\$133,767 99
“ Donations for Endowment	735,021 06
“ Donations not for Endowment	90,862 29
“ Securities Sold or Redeemed	192,605 51
“ Advances by Administration	12,512 34
“ Amounts Received from Departments Account Sinking Fund and Bond Interest	11,476 90
“ Interest on Bank Deposits	2,168 05
“ Amount Transferred from Administration	6,448 70
“ Premiums Received	13,998 83
“ Increase of Capital Account	65,204 66
“ Sales of Material, etc.	907 89
	<hr/>
	1,264,974 22
	<hr/>
	\$1,324,827 19
Cr.	
By Investments made	\$749,999 03
“ Accrued Interest and Premiums paid	613 47
“ Building and Ground Account	94,347 39
“ Taxes, Water Rent, Insurance, Repairs, Legal Expenses, etc.	4,853 94
“ Funds not for Investment Transferred to Administration	31,368 63
“ Income from Investment Transferred to Administration	78,290 62
“ Amount paid on Account Sundry Trusts	26,979 11
“ Advances by Administration returned ...	27,706 81
“ Interest paid	531 25
“ Amount paid Sinking Fund Bonds and Interest	11,500 00
“ Amount paid Mortgage 3338 Walnut Street	5,000 00
“ Amount paid Loans returned	35,950 00
	<hr/>
	1,067,140 25
	<hr/>
Balance August 31, 1902	<u>\$257,686 94</u>

ADMINISTRATION ACCOUNT.

GENERAL BALANCE SHEET.

Dr.		
To	Balance August 31, 1901	\$6,103 98
"	Tuition Fees	\$317,468 07
"	Graduation Fees and Certificates	6,713 50
"	Income from Invested Funds	77,720 62
"	Funds not for Investment	29,450 14
"	Amounts received from Departments:	
	Veterinary Hospital	\$8,043 00
	Central Light and Heat	
	Station	39,728 71
	Dormitories	44,312 45
	Department of Repairs ..	15,737 71
		<hr/>
		107,821 87
"	Advances to Trusts repaid	28,310 94
"	Sinking Fund	10,000 00
"	Interest received	5,849 65
"	Students' Deposit Account	22,768 39
"	Students' Deposit Breakage Account	3,092 12
"	Miscellaneous	396 51
		<hr/>
		609,591 81
		<hr/>
		\$615,695 79
Cr.		
By	Salaries, Education	\$293,636 63
"	Salaries, Administration	76,679 27
"	Current Expense Account	173,625 00
"	Advances to Trusts	13,116 47
"	Transfers to Trusts	6,434 52
"	Interest paid	6,198 48
"	E. W. Mumford, Bursar	600 00
"	Students' Deposits returned	9,622 10
"	Temporary Investment Account	9,075 00
"	Prize Money paid	986 00
		<hr/>
		589,973 47
		<hr/>
		\$25,722 32
		<hr/> <hr/>
	Balance August 31, 1902	

ANALYSIS OF ADMINISTRATION ACCOUNT.

		Surplus.	Deficit.
College:			
Income	\$46,946 18		
Tuition Fees	108,795 62		
	<u> </u>	\$155,741 80	
Salaries, Education..	\$149,550 58		
Salaries, Admin. ...	9,228 72		
Current Expenses ...	46,680 52		
	<u> </u>	205,459 82	
			\$49,718 02
Department of Medicine:			
Income	\$1,516 01		
Tuition Fees	104,824 17		
	<u> </u>	\$106,340 18	
Salaries, Education..	\$65,422 34		
Salaries, Admin. ...	7,909 54		
Current Expenses ...	34,103 22		
	<u> </u>	107,435 10	
			1,094 92
Department of Law:			
Income	\$1,177 76		
Tuition Fees	53,697 51		
	<u> </u>	\$54,875 27	
Salaries, Education..	\$28,699 44		
Salaries, Admin. ...	7,100 66		
Current Expenses ...	14,670 45		
Transfer to Law Li- brary	6,434 52		
	<u> </u>	56,905 07	
			2,029 80
Department of Dentistry:			
Tuition Fees		\$43,540 53	
Salaries, Education..	\$24,887 20		
Salaries, Admin. ...	3,055 05		
Current Expenses ...	23,396 28		
	<u> </u>	51,338 53	
			7,798 00

University of Pennsylvania.

		Surplus.	Deficit.
Department of Hygiene:			
Income	\$8,868 53		
Tuition Fees	50 00		
	<u>8,918 53</u>		
Salaries, Education..	\$5,258 34		
Salaries, Admin. ...	520 00		
Current Expenses ...	3,085 84		
	<u>8,864 18</u>		
		\$54 35	
George L. Harrison Foundation:			
Income	\$14,319 42		
Salaries, Education..	14,319 42		
	<u>14,319 42</u>		
Department of Veterinary Medicine:			
Income	\$250 00		
Tuition Fees	6,560 24		
	<u>\$6,810 24</u>		
Salaries, Education..	\$3,925 04		
Salaries, Admin. ...	1,631 90		
Current Expenses ...	2,568 49		
	<u>8,125 43</u>		
			\$1,315 19
Veterinary Hospital:			
Receipts	\$8,043 00		
Income	323 15		
	<u>\$8,366 15</u>		
Salaries, Admin. ...	\$5,036 17		
Current Expenses ...	5,774 04		
	<u>10,810 21</u>		
			2,444 06
Department of Repairs:			
Receipts	\$15,737 71		
Salaries, Admin. ...	\$2,091 86		
Current Expenses ...	5,141 73		
	<u>7,233 59</u>		
		8,504 12	
Dormitories:			
Receipts	\$44,312 45		
Salaries, Admin. ...	\$7,686 27		
Current Expenses ...	13,761 42		
	<u>21,447 69</u>		
		22,864 76	

Treasurer's Report.

211

	Surplus.	Deficit.
Central Light and Heat Station:		
Receipts	\$39,728 71	
Salaries, Admin. ...	\$9,209 96	
Current Expenses ...	27,367 98	
	36,577 94	
	\$3,150 77	
	\$34,574 00	\$64,399 99

SUMMARY.

Deficits:		
College	\$49,718 02	
Department of Medicine	1,094 92	
" " Law	2,029 80	
" " Dentistry	7,798 00	
" " Veterinary Medicine	1,315 19	
Veterinary Hospital	2,444 06	
	\$64,399 99	
Surplus:		
Department of Hygiene	\$54 35	
" " Repairs	8,504 12	
Dormitories	22,864 76	
Central Light and Heat Station	3,150 77	
	34,574 00	
Net deficit		\$29,825 99

HOSPITAL.

GENERAL BALANCE SHEET.

RECEIPTS AND EXPENDITURES FROM AUGUST 31, 1901, TO AUGUST 31, 1902,
INCLUSIVE.

Receipts:

Balance, August 31, 1901		\$19,038 10
Income from Invested Funds	\$42,959 39	
Funds for Investment	46,178 50	
Funds not for Investment	64,789 82	
Investments paid off or sold	31,370 00	
Premium received	69 27	
Interest on Bank balances	304 92	
Borrowed Money	604 13	
		<u>186,276 03</u>

\$205,314 13

Expenditures:

Paid Superintendent	\$95,011 33	
Investments made	76,858 33	
Accrued Interest	88 64	
Premiums	130 62	
Repairs, Taxes, Water Rent, etc.	2,250 52	
Anna D. Scott Memorial	11,635 49	
Maintenance Pepper Clinical Laboratory	6,797 95	
Mrs. W. Howard Pancoast, Treasurer of Ladies' Fund, Maternity Hospital	14 00	
Woodward Fellowship	525 00	
Loss on Investments	480 00	
Borrowed Money returned	604 13	
		<u>194,396 01</u>

Balance, August 31, 1902

\$10,918 12

Of which Special Funds for Investment ... \$704 61

Of which Special Funds not for Investment .. 10,213 51

\$10,918 12

STATEMENT OF SPECIAL FUNDS NOT FOR INVESTMENT.

	Amount, including Balance, August 31, 1901.	Amount paid.	Balance.
Billings Fund	\$1,764 54		\$1,764 54
Mrs. E. W. Harrison's Fund for Private Patients' Rooms, fur- nishing	276 05		276 05
Mrs. E. W. Harrison's Fund for Roof Garden	400 00		400 00
Stable Repair Fund	50 00		50 00
Maennerchor Fund	107 00		107 00
Maintenance Pepper Laboratory.	7,918 02	\$6,797 95	1,120 07
Diet Kitchen Fund	1,395 85		1,395 85
Nurses' Home Enlargement Fund	5,000 00		5,000 00
Nurses' Home Passage-way Fund	500 00	500 00	
Woodward Fellowship Fund	625 00	525 00	100 00
			<hr/>
			\$10,213 51
			<hr/> <hr/>

HOSPITAL TRUST ACCOUNT.

INCOME FROM TRUSTS FROM AUGUST 31, 1901, TO AUGUST 31, 1902,
INCLUSIVE.

General Fund (including Bed Funds)	\$14,968 86
Hahn Ward Fund	3,194 95
Alumni Ward Fund	430 24
Mrs. G. W. Norris Fund	525 25
Bement Fund	350 00
Ward Chronic Diseases Fund	6,590 20
Pepper Clinical Laboratory Fund	3 60
I. V. Williamson Hospital Fund	2,396 50
Children's Ward Fund	1 21
Henry Seybert Fund	3,238 96
George S. Pepper Fund	1,907 00
Recto-Genito-Urinary Diseases Fund	200 21
Anna M. Powers Bed Fund	180 00
Mary W. Eskens Bed Fund	324 17
Dr. D. Hayes Agnew Hospital Fund	248 02
Dr. D. Hayes Agnew Fund for Care of Children	2,342 34
Dr. D. Hayes Agnew Fund for Mater- nity Hospital	64 83
Andrew C. Butler Fund	240 53
Ligonier Free Bed Fund	1,427 91
Children's Orthopædic Ward Fund	789 00
Ladies' Fund Maternity Hospital	14 00
A. Sydney Roberts Apparatus Fund	310 47
John White Field Bed Fund	222 27
Abby Willing Peters Bed Fund	222 24
Maternity Fund	648 23
Edward Rhoads Memorial Fund	166 21
Alfred Gustavus Baker Bed Fund	250 19
Abraham and Mary Baker Bed Fund	225 00
Mary B. K. Wainwright Bed Fund	212 00
Hamilton Disston Bed Fund	120 00
Percival Roberts Bed Fund	120 00
Thomas Harrison Bed Fund	200 00
Richard Heckscher Bed Fund	200 00
Woodward Fellowship Fund	625 00
	<hr/>
	\$42,959 39

DONATIONS TO THE UNIVERSITY.

 ARCHÆOLOGY AND PALÆONTOLOGY—
 DEPARTMENT OF.

Calket C. Howard	\$500 00
------------------------	----------

 BEQUEST OF THE LATE JOS. M.
 BENNETT, DECEASED.

Bennett, Estate of Jos. M., deceased	481,000 00
--	------------

BOTANIC GARDEN FUND.

Bailey, Joshua T.	\$10 00	
Botanical Society of Pennsylvania	1,932 98	
Brock, Robert C. H.	10 00	
Burnham, Williams & Co.	10 00	
Gest, John M.	50 00	
Morris, E. B.	10 00	
Morris, John T.	20 00	
Morwitz, Joseph	100 00	
Pepper, John W.	100 00	
Townsend, Mrs. J. B., Jr.	500 00	
		<hr/>
		2,742 98

CAMPUS—THROUGH MRS. C. C. HARRISON.

Allen, Mrs. Benjamin C.	\$500 00
Bamberger, Max	250 00
Beckwith, Harriet M.	50 00
Biddle, Miss Marianne	25 00
Biddle, Dr. Thomas	25 00
Blanchard, The Misses	25 00
Brooke, Mrs. Mary B. I.	10 00
Brown, John A.	25 00
Camac, Mrs. Wm. M.	10 00
Chauncey, Agnes C.	50 00
Chauncey, Charles	25 00
Clark, Clarence H.	100 00
Clark, Frances	20 00
Coxe, Alexander B.	150 00
Coxe, Eckley B., Jr.	250 00
Coxe, Miss Rebecca	200 00

Conrad, Mrs. T. K.	\$5 00
Cramp, Charles H.	50 00
Dickson, Samuel	15 00
Downing, R. W.	100 00
Dunton, Dr. Wm. R.	20 00
English, Mrs. Emma H.	25 00
Fisher, Mrs. James Logan	10 00
Fitler, Mrs. Edwin H.	100 00
"From a Friend"	100 00
Getchell, Mrs. Frank H.	20 00
Griscom, Clement A.	250 00
Harris, Miss Mary Powers	100 00
Hacker, Mrs. Sarah E.	20 00
Harrison, C. C.	15 00
Harrison, Mrs. C. C.	36 00
Harrison, John	100 00
Hinchman, Mrs. Lydia S.	10 00
Houston, Samuel F.	115 00
La Roche, Dr.	5 00
Lesley, Robert W.	25 00
Lewis, Morris J.	15 00
McCrea, James	15 00
McKean, Mrs. Thomas	100 00
Morris John T.	100 00
Morris, J. Tyson	25 00
Paul, James W., Jr.	25 00
Paul, Miss Mary W.	25 00
Pennypacker, Hon. Samuel W.	15 00
Reilly, Thomas A.	20 00
Roberts, Miss E. C.	50 00
Roberts, Miss F. A.	50 00
Rogers, Mrs. Fairman	100 00
Rosengarten, Jos. G.	15 00
Sellers, William	15 00
Simpson, Elizabeth M.	25 00
Smith, Walter George	15 00
Spencer, John T.	10 00
Stern, Simon A.	50 00
Stillé, Mrs. Charles J.	100 00
Thomson, Mrs. J. Edgar	20 00
Valentine, John R.	100 00
Warren, Mrs. Ida W.	20 00
Whitaker, Rt. Rev. O. W.	15 00
White, Mrs. Emily T.	25 00
Winpenny, Mrs. J. Bolton	10 00
Wolf & Co.	500 00

 \$4,296 00

COLLEGE DEPARTMENT—TOWARDS THE
INCREASE OF SALARIES IN THE.

Blanchard, The Misses	\$1,500 00	
Harris, Mrs. Mary Powers	2,000 00	
Powers, Thomas H.	1,000 00	
	<hr/>	\$4,500 00

COLLEGE—HISTORY OF THE

Bachman, F. H.	\$500 00	
Frazier, W. W., Jr.	500 00	
	<hr/>	1,000 00

COLLEGE MUSEUM.

Brown, Amos P.	\$50 00	
Warren, E. Burgess	1,000 00	
	<hr/>	1,050 00

DORMITORIES.

Lippincott, J. Dundas, "Lippincott House" ...	\$2,500 00	
Carruth, John G., "Carruth House"	2,500 00	
Mallet-Provost, S., "New - York Alumni House"	250 00	
	<hr/>	5,250 00

DORMITORIES—1887 HOUSE.

Ashbrook, Wm. S.	\$15 00
Benkert, W. C.	5 00
Biddle, A. W.	25 00
Brock, Joseph S.	30 00
Clarke, Fred. C.	10 00
Cowperthwaite, Chas. T.	25 00
Dolan, Thomas	80 00
Earle, Edgar B.	10 00
Frazier, George H.	50 00
Graham, F. W. W.	50 00
Griscom, C. A., Jr.	25 00
Hawkins, J. D.	6 00
Kenney, E. F.	22 50
Magee, James T., Jr.	7 50
Martin, Geo. L.	2 50
Martin, W. P.	30 00
Newbold, W. R.	25 00
Pepper, George	25 00
Pryor, Frank J.	5 00
Redifer, A. P.	7 50

Seyfert, H. H.	\$30 00	
Townsend, C. C.	25 00	
Wagner, J. O.	10 00	
White, L. P.	5 00	
		\$526 00

ELECTRO-CHEMICAL APPARATUS FUND.

Rosengarten, Jos. G.	100 00
---------------------------	--------

FELLOWSHIP DEPARTMENT OF PHILOSOPHY.

Wood, R. Francis	250 00
-----------------------	--------

FELLOWSHIP—JOHN F. FRASER.

Conrad, Mrs. Thomas K.	4,000 00
-----------------------------	----------

FREE LECTURE FUND.

McFadden, George H.	1,075 86
--------------------------	----------

GENERAL ALUMNI OFFICE FUND.

Clapp, B. Frank	\$20 00	
Dickson, Samuel	50 00	
Frazier, George H.	50 00	
Guggenheim, Wm.	50 00	
Harrison, C. C.	50 00	
Houston, Samuel F.	50 00	
Musser, Dr. J. H.	50 00	
Ogden, Hugh W.	10 00	
Potts, Howard N.	50 00	
Rosengarten, Jos. G.	50 00	
Smith, W. Hinkle	50 00	
		480 00

GENERAL UNIVERSITY FUND.

Bilyeu, Wm. H.	\$250 00
Bradley, Thomas	150 00
Bullitt, W. C.	250 00
Converse, John H.	1,000 00
Corbin, E. A.	500 00
Dale, Richard C.	1,000 00
Dolan, Thomas	1,000 00
Dreer, Wm. F.	250 00
Field, Estate of Eliza W. S. P., deceased	5,916 00
Gest, John B.	250 00
Gimble Bros.	500 00

Treasurer's Report.

219

Helme, William E.	\$250 00	
Hitchcock, Miss F. R. M.	50 00	
Jeanes, Henry S.	100 00	
Jones, J. Levering	500 00	
Kurtz, W. W.	500 00	
Langsdorf, Isidor	200 00	
McCullough, Edmund H.	100 00	
McFadden, George H.	201 00	
McIlhenney, John	500 00	
Rosengarten, Jos. G.	116 00	
Several friends of the University (annual for five years)	40,000 00	
Snellenberg, N.	100 00	
Snellenberg, Samuel	500 00	
Strawbridge & Clothier	1,000 00	
Sweatman, V. C.	500 00	
Townsend, J. B., Jr.	500 00	
Vaux, George, Jr.	50 00	
Welsh, Samuel, Jr.	500 00	
Wetherill, John Price	1,000 00	
Wetherill, S. P.	500 00	
Wolf & Co.	500 00	
	<hr/>	\$58,733 00

INTEREST.

Athletic Association of the University	2,500 00
--	----------

LAW SCHOOL BUILDING FUND.

De Kinder, Joseph J.	\$500 00	
Gowen, Francis I.	2,500 00	
Lowrey, Hon. Dwight M.	125 00	
Rawle, Francis	125 00	
Stewart, Ralph C.	2,000 00	
	<hr/>	5,250 00

LAW SCHOOL BUILDING LOT FUND.

Archer, Pierce	\$250 00	
Cattell, Henry S.	100 00	
Griffith, Warren G.	250 00	
Lewis, Henry	250 00	
Lovering, Joseph S.	50 00	
Read, John R.	250 00	
Smith, Lewis Lawrence	160 00	
Stewart, Ralph C.	3,000 00	
Wickersham, George W.	500 00	
Williams, Ellis D.	100 00	
	<hr/>	4,910 00

LECTURES ON ROMAN LAW.

Plimpton, George A.		\$200 00
--------------------------	--	----------

LIBRARY—BOTANY.

Morris, John T.	\$275 00	
Paul, Miss Mary W. and Dr. James	350 00	
	<hr/>	625 00

LIBRARY—CURRENT EXPENSES.

Hutchinson, Charles H.	\$10 00	
Harrison, Miss Esther W.	10 00	
Rosengarten, Jos. G.	100 00	
	<hr/>	120 00

LIBRARY—HOUGH COLLECTION.

Bodine, S. T.	\$25 00	
Burnham, George, Jr.	100 00	
Castner, Samuel, Jr.,	100 00	
Clark, C. H.	100 00	
Clark, E. W.	100 00	
Coxe, E. B., Jr.	100 00	
Dale, Richard C.	100 00	
Dickson, Samuel	100 00	
Frazier, Wm. W.	100 00	
Gest, John N.	25 00	
Houston, S. F.	100 00	
Lea, Henry C.	100 00	
Morris, E. B.	100 00	
Nachod, Julius	25 00	
Sellers, William	100 00	
Wanamaker, John	100 00	
Wharton, Joseph	100 00	
Wood, Stuart	25 00	
	<hr/>	1,500 00

LIBRARY—MUSIC.

Alumni Society, Department of Music		12 00
---	--	-------

LIBRARY—PERIODICALS.

Brock, Arthur	\$500 00	
Brock, Robert C. H.	1,000 00	
Caldwell, J. Albert	500 00	
Downing, R. W.	1,000 00	
	<hr/>	3,000 00

Treasurer's Report.

221

LIBRARY—SALARIES ADMINISTRATION.

Rosengarten, Joseph G. \$200 00

LIBRARY—STILLÉ MEMORIAL.

Stillé, Mrs. Anna W. 1,000 00

MEDICAL BULLETIN.

Frazier, George H. 1,500 00

MEMORIAL TOWER.

Magee, James F., Jr. \$7 50

Through Mrs. Rebecca Jackson 242 06

249 56

NEEDY STUDENTS.

Bushnell, Charles E. \$100 00

Coates, William M. 150 00

Collins, Henry H. 1,000 00

Gest, John B. 100 00

Grant, William S. 250 00

Griffith, Mary C. 200 00

Harrison, Mrs. Letitia H. 100 00

Jefferis, J. H. 125 00

Ladies' Home Journal 1,000 00

Lawrence, Lewis 250 00

Shelmerdine, Wm. H. 250 00

Swain, Charles M. 500 00

4,025 00

NEW ENGINEERING DEPARTMENT.

Allen, Edmund \$500 00

Bancroft, John 500 00

Bancroft, William P. 1,000 00

Barnett, G. and H., Co. 500 00

Belfield, T. Broom 1,000 00

Berwind, Harry A. 2,500 00

Boltz, John H. 250 00

Bradlee & Co. 250 00

Bromley, Joseph H. 2,500 00

Clark, E. W. 5,000 00

Clothier, Isaac H. 500 00

Colket, George H. 2,000 00

Conyngham & Co. 2,500 00

Cramp, Charles H. 1,000 00

Delany, Charles	\$250 00
Dick, Evans R.	3,500 00
Disston, Henry and Sons, Incorporated	5,000 00
DuPont, Eugene	2,500 00
DuPont, Francis G.	1,000 00
Dwight, E. W.	500 00
England, Thomas Y.	500 00
Flagg, Stanley G. & Co.	1,000 00
Fleisher, Simon B.	250 00
Fause, L. G.	250 00
Githens, Benjamin	500 00
Godshalk, E. H.	250 00
Griscom, Clement A.	2,500 00
Grundy, Wm. H. & Co.	250 00
Harris, Joseph S.	2,500 00
Irvine, Wm. B.	500 00
LaLanne, Frank D.	1,000 00
Little, Amos R.	1,000 00
Lloyd, Malcolm	500 00
McFadden, J. Frank	250 00
Mathieu, John P.	1,000 00
Merrick, J. Vaughan	4,500 00
Moore, E. J.	500 00
Naylor, John S.	125 00
Philler, George	1,000 00
Reed, Alan H.	1,000 00
Reeves, Paul H.	200 00
Riley, Lewis A.	250 00
Rosengarten, Frank H.	500 00
Scattergood, Thomas	250 00
Schoen, Charles T.	5,000 00
Sheafer, Arthur W.	500 00
Sheafer, Henry	500 00
Shortridge, N. Parker	500 00
Sugar Apparatus Manufacturing Co.	250 00
Thorn, J. S.	200 00
Townsend, J. Barton	500 00
Voorhees, Theo.	250 00
Watkins, T. H.	2,500 00
Welsh, Francis R.	500 00
Wentz, Dr. John S.	5,000 00
West, Harry F.	100 00
Whitney, W. Beaumont	200 00
Wilson, Jos. W.	250 00
Wood, Alan, Jr.	5,000 00
Zane, Anthony M.	500 00

 \$75,075 00

NEW MEDICAL LABORATORY.

Allen, George	\$1,000 00
"Anonymous"	132 00
Beates, Dr. Henry, Jr.	250 00
Bushnell, Charles E.	100 00
Carstairs, McCall & Co.	500 00
Castner, S., Jr.	1,000 00
Cheston, Dr. Radcliffe	500 00
Clark, E. W. & Co.	1,000 00
Dannenbaum, Morris	100 00
Francine, Dr. A. P.	100 00
Godfrey, Lincoln	500 00
Harrison, Charles C. and Ellen W.	50,000 00
Harrison, Alfred C.	10,000 00
Horner, Samuel, Jr.	2,000 00
Hughes, R. J.	500 00
Ivins, William	500 00
Jeanes, Isaac W.	500 00
Jenks, Mrs. Wm. F.	100 00
Jonas, Herman	100 00
Keasbey & Mattison Co.	5,000 00
Kennedy, Mrs. Elias D.	5,000 00
Kneass, Dr. S. S.	375 00
Knight, E. C., Jr.	1,000 00
Kohn, Simon I. and Samuel	500 00
Krall, Dr. John T.	125 00
Kremer & Strubing	500 00
Lea, Henry C.	10,000 00
Lit, Samuel D. and Jacob D.	500 00
McCahan, W. J.	1,000 00
McManes, Mrs. Catharine	25,000 00
Martin, Dr. Edward	1,000 00
Morgan, J. B.	125 00
Musser, Dr. John H.	250 00
Oliver, Dr. Charles A.	150 00
Pepper, Dr. William	1,500 00
Pfaelzer, Morris	50 00
Posey, Dr. Wm. C.	125 00
Potter, Dr. Thomas C.	500 00
Presser, Theodore	200 00
Register, I. Layton	100 00
Risley, Dr. S. D.	125 00
Rosengarten, Jos. G.	1,000 00
Santee, Dr. E. I.	500 00
Shipley, Samuel R.	500 00
Smith, Kline & French Co.	500 00

Stengel, Dr. Alfred	\$500 00	
Stewart, Mrs. Clara E.	2,500 00	
Stewart, Thomas S.	5,000 00	
Thomas, Dr. Charles H.	1,000 00	
Thompson, Dr. William	500 00	
Townsend, Charles C.	500 00	
Tyson, Dr. James	125 00	
Wampole, Henry K. & Co.	250 00	
Wernwag, C. T.	1,000 00	
Wilson, Dr. Benjamin B.	250 00	
Wood, George	500 00	
Wood, Dr. Horatio C.	500 00	
Wood, Howard	1,000 00	
Woodside, John W.	1,000 00	
Wunderle, Philip	100 00	
	<hr/>	\$139,232 00

PALESTINE EXPLORATION.

Colton, S. W., Jr.	250 00
-------------------------	--------

PRIZE FUNDS.

Chilton Prize—Chilton, Harris J.	\$150 00	
Delano Prize—Delano, Eugene	50 00	
Frazier Debating Prize—Frazier, W. W., Jr. . .	100 00	
Latin Prize—Alumni Society College	22 00	
	<hr/>	322 00

PROFESSORS' RETIRING FUND.

Da Costa, Estate Dr. J. M., deceased	4,762 50
--	----------

SALARY FUND, DEPARTMENT ARCHITECTURE—THROUGH MR. WALTER COPE.

"Anonymous"	\$100 00	
Harrison, Alfred C.	500 00	
Kuhn, C. Hartman	500 00	
	<hr/>	1,100 00

SCHOLARSHIP—CADWALADER.

Cadwalader, John	1,000 00
------------------------	----------

SCHOLARSHIP—STEPHEN GREENE.

Greene, Stephen	5,000 00
-----------------------	----------

SEMITIC DEPARTMENT.

Sulzberger, Hon. Mayer	100 00
------------------------------	--------

Treasurer's Report.

225

STEWARDSON, JOHN, MEMORIAL FUND.

"A Friend to make up the deficiency in this Year's Scholarship"	\$146 45
--	----------

TOWNE, JOHN H., FUND.

Towne, Estate Laura M.	350 00
-----------------------------	--------

UNIVERSITY PUBLICATION.

Alumni Society College	\$100 00
Brock, Arthur H.	500 00
Clark, E. W., Jr.	100 00
Colton, S. W., Jr.	100 00
Cuyler, Thomas DeWitt	100 00
Dale, Richard C.	100 00
Dickson, Samuel	100 00
Duane, James May	100 00
Hildebrand, H. O.	250 00
Jones, Thomas F.	100 00
Joyce, Wm. H.	100 00
McFadden, George	100 00
Magee, Horace	250 00
Riebenack, M.	100 00
Rosengarten, Jos. G.	700 00
Tatem, B. H.	100 00
Thompson, Samuel S.	100 00
Turner, William Jay	100 00
Wood, Stuart	100 00
	3,200 00

VETERINARY HOSPITAL FUND.

Goodwin, Mrs. Josephine	\$1,000 00
Lippincott, Craige	1,000 00
Lippincott, J. Bertram	1,000 00
Lippincott, Walter	1,000 00
	4,000 00

VIVARIUM LANTERN.

Hering, Walter E.	150 00
------------------------	--------

Y. M. C. A. BOYS' CLUB.

Lewis Lawrence	\$350 00
Grant, William S.	250 00
	600 00

\$825,883 35

DONATIONS TO THE HOSPITAL.

THOMAS HARRISON BED FUND.	
Harrison, George L.	\$5,000 00
LANGSTROTH BED FUND.	
Langstroth, Mrs. T. A.	500 00
RICHARD HECKSCHER BED FUND.	
Heckscher, Estate of Richard, deceased	5,000 00
WENTZ BED FUND.	
Wentz, Mrs. J. S.	5,000 00
ANNA M. POWERS BED FUND.	
Harris, Mrs. Mary Powers	300 00
MOULTON H. FORREST BED FUND.	
Forrest, Mrs. M. H.	609 00
THOMAS ELKINTON BED FUND.	
Elkinton, Estate of Thomas, deceased	4,762 50
CHILDREN'S MEDICAL WARD FUND.	
Austin, James S.	\$200 00
Charity Ball Committee	2,850 00
Griffith, Dr. J. P. Crozer	200 00
Morgan, Mrs. Randal	200 00
	3,450 00
CHILDREN'S ORTHOPÆDIC WARD FUND.	
Collins, Mr. and Mrs. Henry H.	\$700 00
Willard, Dr. De Forest	443 31
	1,143 31
DIET KITCHEN FUND—THROUGH MRS. EDWARD BROWNING.	
Berwind, Mrs.	\$3 00
Browning, Mrs. Edward	51 35
Cassatt, Mrs. Robert K.	125 00

Dodge, Guy Phelps	\$10 00	
Ffoulke, S. Wynne	10 00	
Giger, Mrs. Emma A. P.	150 00	
Harrison, Mrs. C. C.	100 00	
Harrison, Mrs. C. C., Jr.	269 50	
Harrison, Harry W.	10 00	
McFadden, John H.	50 00	
Scott, Mrs. Edgar T.	25 00	
Starr, Mrs. Isaac	25 00	
Strawbridge, E. R.	25 00	
Strawbridge, Mr. and Mrs. R. E.	12 00	
Toland, Robert	10 00	
Tucker, E. Russell	20 00	
		<hr/>
		\$895 85

GENERAL FUND.

Bedell, Mrs. Margaret	\$300 00	
City of Philadelphia	375 00	
Dolan, Thomas	1,000 00	
State of Pennsylvania	45,000 00	
Welsh, Mrs. John Lowber	50 00	
		<hr/>
		46,725 00

MAINTENANCE PEPPER CLINICAL
LABORATORY.

Through Dr. Alfred Stengel	6,166 66
----------------------------------	----------

MATERNITY FUND.

Field, Estate of Eliza W. S. P., deceased	5,916 00
--	----------

NURSES' HOME ENLARGEMENT—THROUGH
MRS. C. C. HARRISON.

Lea, Henry C.	5,000 00
--------------------	----------

NURSES' HOME PASSAGE-WAY.

Magee, Miss Eliza J.	\$250 00	
Magee, Miss Fannie S.	250 00	
		<hr/>
		500 00

WOODWARD FELLOWSHIP.

Woodward, Dr. George	20,000 00
----------------------------	-----------

\$110,968 32

FRANCIS P. SIBLEY,
Treasurer.

University of Pennsylvania.

LYBRAND, ROSS BROS. & MONTGOMERY,
Certified Public Accountants,
Philadelphia.

To the Trustees of the University of Pennsylvania.

DEAR SIRS:—We hereby certify that we have audited the accounts of the University of Pennsylvania for the fiscal year ended 31st August, 1902, and found them to be correct and very creditably kept. The foregoing report of the Treasurer is in accordance with the books, and the schedule of securities therein agrees with the securities which were on hand 31st August, 1902.

Respectfully yours,

[Signed]

LYBRAND, ROSS BROS. & MONTGOMERY,
Certified Public Accountants.

19th December, 1902.

DEPARTMENT OF ARCHÆOLOGY OF THE UNIVERSITY OF PENNSYLVANIA.

REPORT OF JOHN SPARHAWK, JR., TREASURER.

For the Year ending August 31, 1902.

RECEIPTS.

Balance on hand, August 31, 1901 :		
Building Fund	\$1,079	01
Endowment Fund	5,536	70
Babylonian Fund, Nippur Expedition	696	89
Drexel Medal Fund	2,240	66
Egypt and Mediterranean Fund	311	10
Hilprecht Constantinople Fund	1,008	36
Jane E. Welton Estate Fund	506	41
Mrs. Chas. Platt, Jr., Special Fund	505	33
Carl Edelheim Excavation Fund	1,007	00
Dillwyn Parrish Collection	527	60
	<hr/>	\$13,419 06
Annual Dues		4,270 00
Donations :		
Robert C. H. Brock	\$12,560	32
Champion Construction Co., Adolph Segal, Treasurer	10,000	00
J. C. Strawbridge	3,500	00
Mrs. Lucy Wharton Drexel	2,000	00
Eckley B. Coxe, Jr.	1,095	00
E. W. Clark	1,000	00
C. H. Clark	750	00
Calvin Wells	750	00
Samuel F. Houston	569	35
Samuel T. Bodine	81	55
Professor Maxwell Sommerville	50	00
	<hr/>	32,356 22
Building Fund :		
Interest		57 99
		<hr/>

Endowment Fund:		
University of Pennsylvania	\$2,194 00	
Dividend Wm. Cramp & Sons, Ship and Engine Building Co.	37 50	
Interest Seacoast Railway Co. of New Jersey Bonds	250 00	
Interest New Mexico Railway & Coal Co. Bonds	250 00	
Interest	90 00	
	<hr/>	\$2,821 50
Egypt and Mediterranean Fund:		
Sale of Photographs and Lantern Slides..	\$1 20	
Interest	11 37	
	<hr/>	12 57
Hilprecht Constantinople Fund:		
Donations:		
W. W. Frazier	\$500 00	
Samuel T. Bodine	250 00	
Samuel F. Houston	125 00	
E. W. Clark	250 00	
Robert C. H. Brock	250 00	
Henry C. Lea	375 00	
C. H. Clark	150 00	
C. C. Harrison	250 00	
George C. Thomas	125 00	
Evans R. Dick	250 00	
Eckley B. Cox, Jr.	750 00	
Interest	140 90	
	<hr/>	3,415 90
American and Prehistoric Archæology:		
Donations:		
John Wanamaker	\$2,330 87	
Samuel T. Bodine	369 28	
Field Columbian Museum	30 00	
	<hr/>	2,730 15
Asia and General Ethnology:		
Dr. Horter (on account of settlement) ...	\$100 00	
Fourth Street National Bank	10 50	
R. C. H. Brock, for sending coins to Dr. Hirst	4 75	
	<hr/>	115 25
Babylonian Fund, Nippur Expedition:		
Sale of Lantern Slides	\$27 50	
Interest	19 87	
	<hr/>	47 37

Department of Archæology.

231

Jane E. Welton Estate Fund:		
Interest		\$30 38
Mrs. Charles Platt, Jr., Special Fund:		
Interest		21 04
Carl Edelheim Excavation Fund:		
Interest		60 42
Robert C. H. Brock:		
Advance		469 47
Dillwyn Parrish Collection:		
Donations—Mrs. Dillwyn Parrish	\$1,000 00	
Interest	51 73	
	<hr/>	1,051 73
Lucy Drexel Medal Fund:		
Interest		134 43
Life Membership:		
Archer M. Huntington		200 00
General Fund:		
Presbyterian Sunday-School Superintendents' Association	\$11 62	
Lutheran Social Union	17 12	
Harlan J. Smith, account amount advanced for games	6 76	
Offerings from Sommerville Temple	7 50	
University of Pennsylvania for two cases swinging-frames for Exposition Exhibits	35 00	
Canadian Express Co.	5 10	
Sale of Postal Cards	2 75	
Amount found in Museum	2 00	
Sales of Bulletin and Lantern Slides	24 60	
Interest	446 69	
	<hr/>	559 14
		<hr/>
		<u>\$61,772 62</u>

DISBURSEMENTS.

General Fund or Expense Account:	
Salary account	\$15,438 21
Stationery and printing account	1,589 26
Postage, car-fare, etc., account	280 18
Freight, hauling, and Custom House charges account	801 41
Telephone account	180 09
Insurance account	100 00
Repairs account	11 85

Supplies account	\$2,347 71	
Sundries account	3,177 70	
Samuel W. Scott, for collection of Peruvian Antiquities	2,000 00	
	<hr/>	\$25,926 41
Building Fund:		
L. B. McClees & Co., 150 chairs		150 00
Egypt and Mediterranean Fund:		
American Exploration Society for Papyrii	\$188 12	
Clarence S. Massey, services for tea, March 1, 1902	60 00	
	<hr/>	248 12
Hilprecht Constantinople Fund:		
Brown Bros. & Co. account Dr. Hilprecht	\$138 16	
" " " " " " "	74 01	
" " " " " " "	49 47	
" " " " " " "	89 12	
" " " " " " "	182 92	
" " " " " " "	395 67	
" " " " " " "	197 88	
Cable to Dr. Hilprecht	4 48	
	<hr/>	1,131 71
American and Prehistoric Archæology:		
Through Stewart Culin	\$2,351 80	
Stewart Culin, fourteen casts Indian Heads	9 50	
Stewart Culin, for W. H. Clark	56 15	
Pennsylvania Railroad	265 95	
Longacre & Ewing	26 25	
	<hr/>	2,709 65
Asia and General Ethnology:		
Stewart Culin expenses to New York		10 50
Babylonian Fund, Nippur Expedition:		
Dr. J. H. Haynes	\$400 00	
Cabled Blocky, Hotz & Co., Bagdad	97 60	
	<hr/>	497 60
Mrs. Chas. Platt, Jr., Special Fund:		
P. P. Caproni & Bro.	\$135 00	
W. W. Kline, scaffolding	25 00	
Lizzie Boileau, salary eleven days	13 75	
Murta, Appleton & Co., bolts for Parthenon frieze	2 50	
Henry Blithe, wax, alcohol, etc.	6 53	
	<hr/>	182 78

Department of Archæology.

233

John Sparhawk, Jr.:		
Return of advance		\$610 79
Robert C. H. Brock:		
Return of advances		9,319 47
Publication Fund:		
C. C. Grosse, revising translation Uhle report		29 00
Dillwyn Parrish Collection:		
American Exploration Society for Papyrii		393 41
Balance on hand:		
Building Fund	\$987 00	
Endowment Fund	1,500 00	
Maintenance Fund	8,961 61	
Babylonian Fund, Nippur Expedition ...	246 66	
Drexel Medal Fund	2,375 09	
Egypt and Mediterranean Fund	75 55	
Hilprecht Constantinople Fund	3,292 55	
Jane E. Welton Estate Fund	536 79	
Mrs. Chas. Platt, Jr., Special Fund	343 59	
Carl Edelheim Excavation Fund	1,067 42	
Dillwyn Parrish Collection	1,185 92	
		<hr/> 20,572 18
		<hr/> <hr/> \$61,772 62

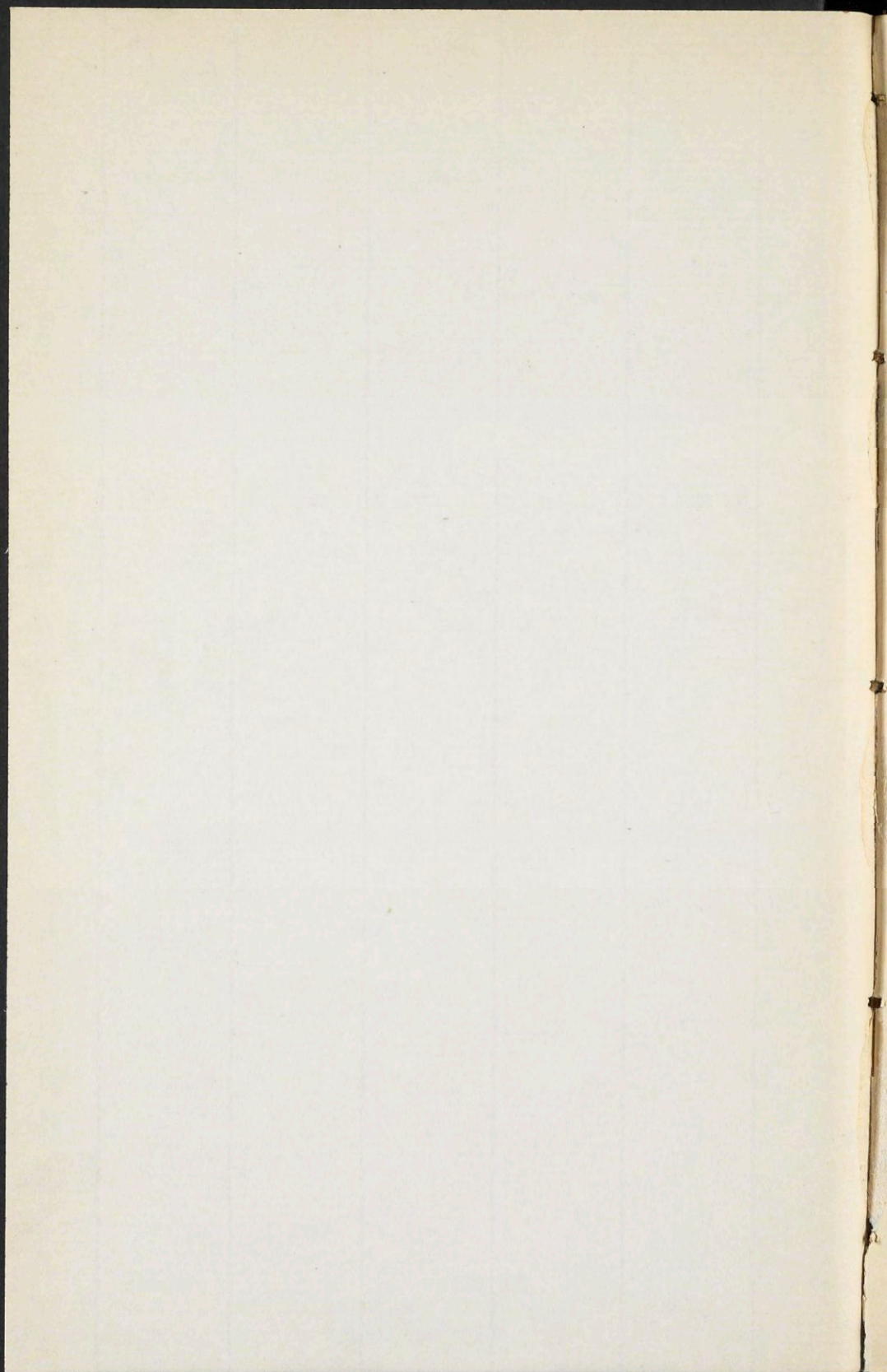
JOHN SPARHAWK, JR.,
Treasurer.

This is to certify that I have audited the accounts of the Treasurer of the Department of Archæology of the University of Pennsylvania for the fiscal year ending August 31, 1902, and have found them to be correct. The cash on hand and the securities belonging to the Department were found to be in accordance with the report of the Treasurer.

[Signed]

J. E. STERRETT,
Certified Public Accountant.

September 30, 1902.



INDEX.

	PAGE
REPORT OF THE PROVOST.....	3
APPENDICES:	
I. PERSONAL CHANGES	35
REPORTS OF:	
II. Dean of the College	38
III. Dean of the Faculty of Philosophy	59
IV. Dean of the Faculty of Law	83
V. Dean of the Faculty of Medicine	93
VI. The University Hospital	99
VII. Director of the Wistar Institute	103
VIII. Dean of the Faculty of Dentistry	106
IX. Dean of the Faculty of Veterinary Medicine	114
X. The Librarian	119
XI. The Department of Archæology	136
XII. The Publication Committee	146
XIII. Bibliography	154
REPORT OF TREASURER OF UNIVERSITY	185
DONATIONS TO THE UNIVERSITY	215
DONATIONS TO THE UNIVERSITY HOSPITAL	226
THE UNIVERSITY AUDITORS.....	228
REPORT OF TREASURER OF DEPARTMENT OF ARCHÆOLOGY	229

