

UNIVERSITY OF PENNSYLVANIA

ANNUAL REPORT

OF

THE PROVOST

TO THE

BOARD OF TRUSTEES

FROM

Their debrey Conversity of

SEPTEMBER 1, 1904, TO SEPTEMBER 1, 1905

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REPORT OF THE PROVOST

To the Trustees of the University of Pennsylvania:

Gentlemen: Another academic year has ended, and it is my duty, as Provost of the University, to make to you the annual report of its history and work.

The Appendices are so arranged that there will always be found in Appendix I a record of the personal changes, from any cause whatsoever, in our University Body; not only the changes which have resulted from death, or resignation, or otherwise, but also of new names which within the year have been added to the roll.

The reports of the Deans of all the Departments are included in this volume, as, also, are the statements of the work of the Hospital, of the Department of Archæology, and of the newly created Department of Physical Education.

It is my desire, in the first place, to ask your attention to the increase in the student registration in the year under review, September 1st, 1904,—August 31st, 1905, as compared with the preceding year, which ended with the 31st of August, 1904. In this latter year, our total registration was 2692. In that of which I am now writing, it rose to 2975. To this total registration, seventy-six different States and Countries contributed.

The public service which the University of Pennsylvania is prepared to render, and which, year by year, it is fitted to

render in a more earnest, sincere and self-sacrificing way, is certainly becoming known and understood and respected, far and near. The letters of inquiry which come to the University from almost every part of the world are reported to be more than double those which we received at the beginning of this new century. The interest and activity of our alumni, and the same qualities, animating our undergraduate students, keep in the minds of men and women everywhere the mission of Pennsylvania, and her name.

With the continued growth of the College—a growth which has been a constant one since we erected the Dormitories and Houston Hall—there is no reason why every Department of the University should not show an annual increase in numbers. So far, then, as that vital part of the University's work is concerned, which deals with the instruction and care of young men, we are likely to have each year larger numbers to teach, and larger numbers whose characters and life purposes we are to direct. And from the University centre of influence here in Philadelphia,—where, according to our Charter, we must always be located,—there will annually radiate in every direction, clear-headed, well-trained, pure-hearted, and truth-loving Sons of Pennsylvania.

The practical interest in our work and purposes continues, as evidenced by the gifts and bequests which were received during the year. The total sum received in cash from all sources, for all University purposes, amounts to \$834,098.-17 and, while this total has once been exceeded, it has only been exceeded in that year in which we received an unusually large bequest by Will,—so that, as a matter of fair comparison, in the number of givers and in the gross amount, this

year may justly be considered as that in which the University received the greatest help and encouragement from its friends, of any year in its history. This is truly a matter for great thankfulness; for deep as our needs still are,—needs which can only be reasonably satisfied to enable us to do our work in the immediate future by the gift of many millions of dollars,—we do owe to this community, and to our alumni everywhere, the record that for the past ten years we have gone out of each year without any indebtedness, either upon Current Expense Account or upon Construction Account.

Very many urgent questions of the first importance remain yet to be considered and solved, and can only receive their solution by great gifts of money. But the good will manifested year by year may be relied upon, I feel sure, in the years that are to come; and the further growth and development of the University, the making strong the weak places and the strengthening of the strong places, will surely be made possible,—and perhaps sooner than we now see,—through that charity towards the University which has never ailed.

In the report of the Treasurer there will be found an itemized statement of each and every benefaction, so arranged that the purpose of the gift is also made evident; and while it would have given me pleasure to have referred specifically to a number of these benefactions and to the reasons which have prompted them,—I will ask your Board, instead thereof, to study the encouraging and interesting statement presented by the Treasurer.

I have already said that there will be found in Appendix I a statement of all changes and additions, both as to officers

of instruction and in the governing body. Three losses by death have taken place in the year, each one of which calls for particular mention.

On the 18th day of October, 1904, the Rev. Jesse Y. Burk, Secretary of the Corporation, died, after a long illness. As he had been a school-mate of mine at the Episcopal Academy, and a member of the same College Class—the Class of '62-for, indeed we went up to our examinations together; and as, upon the resignation of Mr. Cadwalader Biddle from his position as Secretary, Mr. Burk was elected, upon my suggestion, to fill the vacancy; his loss, though a very personal one to every member of the Board and to all who knew him, was, naturally, a peculiar loss to me. I talked with him, while still conscious, a few hours before his death. So long was his term of office, and so important his service to the University, that the Minute of the Board upon the occasion of his death is herewith transcribed, as a renewed token of our remembrance of him; and as an inspiration, likewise, to all University men, for, as the Minute records, he loved the University above all else, except his own household.

"Jesse Young Burk entered the Arts Department of the University in 1858, and was graduated in 1862. He chose as his calling the sacred ministry, and, in due time, became rector of St. Peter's Church, Clarksboro, New Jersey.

"His duties to his parish made it possible for him to accept the invitation to be the Secretary of this Corporation. He was accordingly nominated at a stated meeting held upon April 4th, 1882, and he was duly elected at the stated meeting held upon June 6th, 1882.

"With the exception of the few weeks' absence during which he underwent a severe surgical operation, he was invariably constant and faithful in his services from the day of his election until Commencement time of 1904. Every member of the Board of Trustees, during these twenty-two years, would undoubtedly bear witness to his extraordinary fitness for the post which he filled. Not only have all the Minutes of the stated meetings of the Board been kept, and the Minutes of its several Committees, with care and attention and perfection of method, but all the correspondence of the University which issued from his office, reflected credit upon and brought respect to the University and to its administration.

"He was an ideal College man,—always retaining his educated interests, and always showing the results of his culture. Although a sufferer for many years, and almost always in discomfort, his goodnature and kindliness were constant, and he received with respect and attention all who came to the Offices of the University, seeking information upon the many questions connected with the several Departments.

"Next to his family and to his Church, he loved the University; and, indeed, the hope of the last days of his life was that he might continue to live, to work for the University; but this was not to be his lot any longer,—and he died, as he had lived, in the confidence of a good faith, and beloved of all."

Upon January 24th, 1905, our then Senior Trustee, Mr. William Sellers, died, in the University Hospital, having undergone a surgical operation, in the hopeless effort to prolong his life. I saw Mr. Sellers in his room in the Hospital, a few hours before the operation. He was under entire self-control, quiet, confident and affable, quite hopeful of recovery, and his

last words to me were a kindly expression of his regret that he would not be able to be at the Dinner which your Board courteously gave to me at about that time. Although Mr. Sellers was eighty-one years of age, neither had his mental nor physical force abated. It is true that his hair was white; but the colour of youth was upon his face, and he was erect and active as a young man. He rendered continuous service to the University during the thirty-seven years of his Trusteeship. His attendance upon Committee meetings, as well as upon Board meetings, was regular and conscientious. He was interested not only in the scientific work of the College—for he was a trained engineer of the very highest order, both in theory and practice—but all that was of interest to the University was of interest to him.

On May 19th, 1905, Mr. Francis P. Sibley, Treasurer of the University, resigned on account of ill health, and this resignation was followed soon afterwards by his death. During the term of his Treasurership, Mr. Sibley served with a fidelity which, indeed, might well be called devotion. Long after he was unable to leave his room, or, indeed, his bed, he transacted such business as he could possibly attend to,—such as the signing of cheques, from his sick-room; sending a messenger daily from his house to our office on Chestnut Street. It is not too much to say that, both with Mr. Burk, our Secretary, and with Mr. Sibley, our Treasurer, the University had become part of their life, and they were anxious to live, so that they could work for the University.

To fill vacancies in the Board of Trustees caused by death and resignation, there were elected, in the year, Dr. Wharton Sinkler and Mr. Arthur L. Church. It would be, however, unbecoming to pass from the mention of the three University men who held office with us, without referring to the death of Mr. Oliver Hopkinson, which took place in this City on the 10th of March, 1905,—Mr. Hopkinson being in the ninety-third year of his age, and the oldest graduate of the College. His Class was, College 1832. To his family belongs the distinguished record of having taken part in the development of the University from its very beginning. In the "Alumni Register" of April, 1905, a notice of Mr. Hopkinson's life and of his University history is permanently recorded, but it may be added that Francis Hopkinson, Signer of the Declaration of Independence, and a member of the first Class to be graduated from the "College of Philadelphia" was the grandfather of Mr. Oliver Hopkinson, the record of whose death in 1905 is here made.

"University Day,"—February 22d, 1905, was observed with imposing and patriotic ceremony. In 1898, the Oration upon this day was delivered by our then President, William McKinley. In 1905, the Orator of the Day was Theodore Roosevelt; and in the roll of Honorary Degrees conferred upon that occasion, appear the names of His Majesty, Friedrich Wilhelm II, German Emperor and King of Prussia, and of Theodore Roosevelt, President of the United States. At no other Seat of Learning is Washington's Birthday so remembered as at "Pennsylvania;" and the message which is spoken upon these occasions has come to be world-wide in its influence One hundred and twenty-two years earlier in our history, the Trustees of the same University conferred the Degree of Doctor of Laws upon the First President of the United States of America.

For your information, there is here presented the classifide statement of Professors, Lecturers and Instructors; and of the Student-Body, sub-divided as to their several Departments, and, also, a table giving the geographical distribution of the latter for the year 1904–05.

PROFESSORS, LECTURERS, AND INSTRUCTORS.

	1903-04.	1904-05.
The College	128	131
Department of Philosophy	52	60
Department of Law	18	18
Department of Medicine	122	129
Department of Dentistry	46	46
Department of Veterinary Medicine.	22	24
Emeritus Professors	3	3
	391	411
Duplications	75	86
Totals	316	325

STUDENTS.

	1903-04.	1904-05.
The College.	1,258	1,490
Department of Philosophy	201	213
Department of Law	322	303
Department of Medicine	472	546
Department of Dentistry	362	359
Department of Veterinary Medicine	82	79
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	2,697	2,990
Duplications	5	15
		-
Totals	2,692	2,975

GEOGRAPHICAL SUMMARY OF STUDENTS.

Alabama	II	Italy I	Peru I
Arkansas	2	Japan 7	Philippine Islands I
Australia	23	Kansas 5	Porto Rico 2
Austria	2	Kentucky 20	P. E. Island I
Belgium	I	Louisiana I	Rhode Island 6
Brazil	4	Maine 11	Russia 5
Brit. West Indies	6	Maryland 39	Scotland I
California	5	Massachusetts 45	South Africa I
Canada	20	Mexico 3	South Carolina 4
Chile	5	Michigan 9	South Dakota 3
Colorado	4	Minnesota 4	Spain I
Connecticut	38	Mississippi 1	Sweden I
Costa Rica	2	Missouri 7	Switzerland 4
Cuba	5	Nebraska 2	Syria I
Delaware	34	New Hampshire 12	Tennessee I
Dist. of Columbia	25	New Jersey200	Texas 8
England	3	New York124	Utah 3
Florida	8	New Zealand 13	Vermont 6
France	4	Nicaragua 2	Virginia 16
Georgia	6	North Carolina 8	Washington 9
Germany	7	North Dakota I	West Virginia II
Holland	I	Ohio 53	Wisconsin
Honduras	1	Oklahoma Ter 1	
Illinois	24	Oregon 2	2990
India	I	Panama I	Duplications15
Indiana	18	Paraguay 1	
Iowa	9	Pennsylvania2056	Total2975

I have again the pleasure of calling the attention of your Board to the flourishing condition of the College. The increase in the number of students has continued and the earnestness with which they are working shows no diminution. The statistics which will be found in the report of the Librarian touching their use of the Library are instructive and gratifying. The College combined influences of the improved methods of presentation, and the enlarged freedom of choice and in so far of initiation which the present arrangement of the College

courses puts in the power of the individual student, have resulted in a genuine college-student interest in their work.

It is now three full years since the introduction in 1902 of the new scheme of college courses. Those who were freshmen at the time of the inauguration of the present system, are now seniors, and some few have even taken their degrees already. We may fairly say that the test has been a complete one, and the experimental stage has been passed. It is for this reason, doubtless, that the Dean of the College has, in his report, again called attention to the particular features which are embodied in the scheme, and at some length has explained its nature and its workings. Radical as may seem the departure we have thus made from traditional College methods and ideas, it is really, as a little consideration will soon show, but the logical outcome of tendencies that have been at work for at least forty years. As a matter of fact, there has been no break at all; the process has been continuous, and this last stage reached s the natural and normal development of all that has gone Towards the close of the sixties of the last century, the large development of the so-called natural sciences took place. This development not only caused, but also evidently justified the claim which their advocates were making that an adequate place should be assigned them, side by side, and on a par with the traditional College course, and as integral parts of a rational scheme of education. Simultaneously, too, with this movement, another sprang up amongst those who insisted that modern sciences and modern literatures must be added to the recognized College courses. We soon discovered that two important principles had been potent influ-

ences in bringing about these additions to the curriculum. The first was that we learned to acknowledge that all human effort for the enlargement of man's knowledge, whether of himself and his history, or of the world in which he lives, is eminently fitted to be educative of and stimulating to the individual mind; and secondly, and not less important, that just as in the world of actual life, various individuals are variously endowed, and each must contribute his share to the general advancement and find the work he is fitted to do, so in the miniature world of the College, which is but a preparation for the larger and more exacting world that is to follow, there must be recognition of individual capacities and adaptabilities, and opportunities must be offered for their discovery and initial development. This much the forces which led to the adoption of the elective system very soon made clear. Recognizing this fact of individualism, and under the impulse of a movement which was declaring itself in several of the leading Universities, in Harvard to begin with, the Faculty determined to make graduation follow, not, as heretofore, on the work of a certain number of years, but on the covering of an adequate amount of ground. This work was to be made up of a certain number of courses, to be required of all, a certain number to be chosen as a group—which might be made up of either two or three lines of work to be chosen from a carefully selected, but broadly representative list—and finally of a number of free electives—that is, of subjects that might be chosen without any restriction, other than the practical limitatons imposed by the roster. The details of this will be found in the Dean's report. An exceptionally bright and rapidly working student may do this work in

three years; the average student in four; the student, whose rate of working (but not, necessarily, his real mental power), or whose material circumstances demand a longer time, may complete the work required for graduation in five years.

This is the scheme which was put in force in 1902, and has now gone completely through what may be called the experimental stage. The experiment has proved in every way a success. All the results that may perhaps be looked for from it have not as yet developed; but those that have so far come into evidence have been good. One point, noted by the Dean, may perhaps also be alluded to here. The emphasis thrown by the elective system upon the personal interest in, and responsibility for, his own adequate training, that belongs to and should be felt by the student himself, would alone make it obligatory upon the College authorities to provide him with some advice and guidance in the selection that it is for him to make. To leave him to himself would be not to provoke in him rational selection, but to tempt him to drift along any current that might set his way. Now that he is at liberty to hasten his pace, as well as choose his path, there arises of necessity the temptation to hurry beyond his strength. It is, therefore, doubly necessary, and peculiarly so at the outset of his College course, that some one of experience should be there to advise and caution. Further, it will be necessary that, after he has started, there should be some experienced person to whom he may go when unforseen difficulties begin to arise. These responsibilities of careful selection at starting, and persevering effort in the face of obstacles afterward, he must be taught and he must be helped to acquire. As the fundamental principle is now the personal rights and duties of the student, there is laid upon the College the obligation of close personal contact with him. What careful provision, and of how practical and feasible a character, is now making in the College to meet this difficult and inevitable problem, the Dean's report shows.

May we hope for one thing more? This it is out of the College's power to furnish, but it is an essential, which of late years has been conspicuously absent. I refer to a more active and enlightened interest on the part of parents in the education of their sons. School and College can do much; but they cannot do all; especially are they powerless to undo bad habits and false ideals, which through lack of adequate home supervision and advice so often have taken hard root.

It is interesting to note that Columbia University has this year adopted a very similar scheme of study in its College, and has followed it up by similar provision for the appointment of Faculty advisors. Unquestionably, the idea was in the air and it was only a question of local conditions and opportunities, when in a given Institution it should be realized. Its great merit may be said to be this, in a word; it recognizes fully that the work of a College is the education of its students,—not their graduation.

May I close by again expressing the extreme pleasure that I feel in the thought that the flourishing conditions, both as to number of students and as to earnestness of work by them performed, now visible in the College, are clear evidence that all its members, students and teachers alike, are alive to the duty which the University owes to the Commonwealth and to the Nation.

Two recent adjuncts to the College come naturally to be mentioned here: The evening classes given in Logan Hall, under the auspices of the Wharton School, under the personal direction of Dr. Meade, and the Summer School, under the Directorship of Dr. Quinn.

The Summer School was begun in the summer of 1904, and reached in that first year, in spite of the fact that but a brief time was available for spreading the news of this new venture, a total enrollment of 137. Last year (1905) the enrollment had risen to 212; of these 96 were students who had not attended the University in any other Department. In entering upon this work, the College has but fallen into line with the other leading Universities of the country. The iarge total enrollment that annually is found in these Schools ls testimony to the fact that they meet a want that is felt by many. Teachers, whose daily work fully occupies their time during the usual months of the College session, are anxious to come again under the guidance of experts in the subjects that interest them. It is much for them, too, for a few brief weeks in the year to be brought within the range and to breathe the atmosphere of a University well equipped with laboratories, library and the necessary scientific apparatus of all kinds. If it were to do nothing else, it at least, we may be assured, will give them a higher and truer idea of the noble profession to which they belong, and a deeper sense of the value of the work to which they have devoted themselves.

The Evening School of Accounts and Finance had a total registration, in the first term of the College year, of 159, and in the second term, of 139. In the first term, 95 students took the full work of four evenings in the week; the

remainder taking special courses only. Of the students who took the full work, 83 successfully passed the final examination.

The students who attended these courses were men of mature age, many of them holding responsible positions. Coming to the work with earnestness, due to a practical conviction of its great value to themselves, and furnished, thanks to their business experience, with a good preliminary knowledge of the work, they were able to take advantage of the essential matter of the courses without delay. The handicap of exacting daily employment was largely overcome by their interest and energy. It is not surprising, therefore, to learn that a considerable amount of outside work was done in the preparing and writing out of reports and papers. It is noticeable, that, as the Director reports, the final examination was more severe than that given the undergraduate in the Wharton School in the same subjects, and yet the percentage of failure was very small.

Altogether, the first year's work has been a very gratifying success, and promises well for the popularity and the usefulness of these courses.

That our Graduate Department is established upon a firm and lasting basis is proved conclusively by the smoothness and continuity with which its work continued for the past year, under the new Dean, along The Department of the lines that had been determined by its past ment of history. None the less is this same smooth-

ful sign—of the wisdom of your Board in selecting the present Dean, Dr. C. G. Child, to take up the arduous and re-

ness and continuity a sign-and a very grate-

sponsible duties of that office upon the resignation, accepted with sincere regret, of his efficient predecessor, Prof. W. R. Newbold. How the department has grown in numbers, and how its influence is gradually extending over the whole of our broad country, the statistics embodied in the Dean's report give most gratifying evidence. How alive the Department is to its duties in the way of original work the address of the Dean at the opening of the academic year shows in detail. As the facts therein embodied are not repeated in the present report, I earnestly recommend all the members of the Board to read carefully that address, which was printed in the Alumni Register.

The radical changes that were made in the previous year in the conditions and the manner of awarding, as well as in the nomenclature of, the various "Harrison Fellowships," have been in operation during the present year, and some data, at least, are furnished for estimating the wisdom of the modifications made. It is gratifying to be able to state on the basis of this experience, that the advantages then anticipated have been realized, and that the elimination of restrictions of appointments to our own graduates has made it possible to insist on a higher grade of qualification in the successful candidates, as well as in securing their appointment at an earlier date; and this is a matter of importance. The record of work done, and of work in hand, on the part of the incumbents of Fellowships for Research, as they are now called (Senior Fellowships, as they were formerly called,) I recommend to your attentive perusal.

The Department of Philosophy, as no other part of the University, has a peculiar relation to the College. The studies

pursued in it are the same as in the College and as in the College, they are followed as branches of pure, rather than of applied science. It is true that in the College they are more regarded as instruments of education, and, in the Department of Philosophy, as ends in themselves; yet, while there is here a very real difference in object which entails a certain difference of method, yet it is very easy to exaggerate the magnitude and the importance of this distinction. As a matter of fact, the two shade into one another and no hard and fast line of division can be drawn between them. Scientific work and the educative influence of such work go together and cannot practically be severed. Yet curiously enough, the proper articulation, one with the other, of the College and the Department of Philosophy, has been a problem which has encountered what have hitherto proved insuperable difficulties. These were caused not by the nature of the problem in itself, but chiefly by one fact, viz.: that by legislation of your Board the Department of Phiosophy was necessarily open to students of both sexes under precisely identical conditions, whereas, with the exception of the courses in Biology, the college was open only to male students. At other Institutions this difficulty has been met by the organizations of courses of an intermediate character. These are sometimes graduate courses to which exceptionally qualified undergraduates are admitted, and sometimes undergradate courses to which graduate students proper, who may need or want just that work, may be admitted. In view of the very unequal preparation in many subjects which is found in the graduates of different Colleges in good standing, determined by local conditions at times restricting the character and amount of progress that is possible, courses of this intermediate character become a necessity, if our graduate work

is to be of a uniformly high grade. Such courses also become necessary because duplication of work, and consequently of expense, to an unwarrantable extent, must be avoided, In the past it had been found possible to provide such courses in particular cases, but, owing to the limitations above referred to, only in a few carefully selected subjects. After discussion of the subject by a committee representative both of the College and of the Department of Philosophy, it was, on its favorable report, resolved by the Faculty of Philosophy to petition your Board to remove this restriction as to sex, in so far as bona fide students of the Department of Philosophy were concerned. In other words, to permit the admission of matriculates of that Department without distinction of sex to such courses whether primarily classified as graduate or undergraduate to which courses students of the College were This permission being given, by concurrent action of the Academic Council and of the Faculty of Philosophy, several such courses have been authorized and are now in progress. Thus, finally and happily, perfect articulation has, after many vain efforts, been secured between these closely related Departments of the University. The result, it is confidently expected, will be no less beneficial to the College than to the Department of Philosophy. It is further to be hoped that this action by bringing about organic relation between the two Departments, will do much to change the condition alluded to by the Dean in his report, that comparatively so small a number of College graduates proceed to the higher work. Many of them will thus find themselves in the midst of this advanced work almost before they are aware of it, will become interested in it and will be encouraged to persevere in it.

In my report of last year, I laid particular stress upon the importance of the Library as a working department of the University. I might repeat, with the same truth, now, what I said then. I wish even to add to it, for the actual record of use shows a steady increase The this year over the last in the extent to which University our students, particularly those of the College Library and of the Department of Philosophy, have availed themselves of the facilities it offers. It is quite safe to say that without the Library it would be utterly impossible to carry on the work of the College, not to speak of the Department of Philosophy, as it is now conducted, and as a self-respecting College of to-day must conduct its work.

There were days,—some of you may remember them,—when it was thought possible to conduct a College efficiently without a library available for consultation by the students, as there were days when it was conceived possible to give a satisfactory course in Chemistry to students who never set foot inside a laboratory and never personally made a single experiment. But that day has gone by, for the one case as well as for the other. This fact cannot be too deeply impressed upon our minds, nor too constantly present in our thoughts.

But a library to be and to continue serviceable, needs money. It needs it badly and needs it incessantly. There are new books by leading scholars, in their various lines that must be purchased, and there are extensive and expensive publications of original documents which must be secured. There are, also, the regular and manifold issues of scientific journals which must be subscribed for, and there is the wear and tear incident to continuous use which must be made good-

All of this calls for money. Hitherto, we have been fortunate in the fact that generous friends, some of them well known members of your Board, have stepped into the breach and have personally given very considerable sums to supply some crying need of the Library, some need that unsupplied, would have seriously crippled the work of the University. We shall probably never see the day when such calls upon willing friends will cease to be necessary. But apart from such large needs, there is the steady, normal demand, which cannot be neglected or overlooked, for the purchase of the current works, constantly issuing in the various branches of science. A well-equipped teacher must get at them somehow. He cannot afford to buy them for himself, for his salary will not allow that. And there is the student who must be referred to them and must consult them. Yet even for this so necessary provision, this necessity of daily recurrence, we have been hitherto largely and almost entirely, dependent upon individual generosity. Of the periodicals in the Library, no less than 501 are gifts. Surely there should be some permanent fund from which at least the necessary current books, and the even more necessary current issues of the periodicals could be obtained, leaving us to depend upon extraordinary gifts of generously minded individuals for extraordinary needs.

Let me once more emphatically express my conviction that the question is a vital one, for it touches the life and existence of the University, especially in the College and the Department of Philosophy. Starve the Library, and we of necessity starve the College and the graduate work of the University. Will not some one arise who will face this problem for us, or help us to face it for ourselves?

The report of the Dean states the agreeable fact that the First Year Class outnumbers its predecessor, and predicts from data already gathered that the same will be true of the class to enter next year. After further noting that in this regard our own Medical School occupies a quite unique position, the Dean proceeds to The give some reasons which in all likelihood Department account for this. The causes he finds in the of Medicine greatly enlarged equipment and the facilities offered by the new Medical Building; but even more than to this it is, he thinks, due to the particular pains that are here taken to make the student's life a wholesome and happy one. And this is a statement which goes to the heart of the present student-life at "Pennsylvania." There is a reverse, however, to this picture. This is discovered when we turn our eyes upon the community at large, and, for the moment, away from our school itself. Then we become aware of two facts; first, that the profession of Medicine is becoming overcrowded, and second, that the progress of science has enormously increased the volume of knowledge that must be demanded of medical men. To meet these two conditions, i. e., to reduce the number of intending physicians and to increase the power of the average medical graduate, the thought suggested by the Dean is an advance in the entrance requirements along the lines of the sciences cognate to medicine and the addition of a fifth year to the course as it now The suggestion is modified by the proposition that graduates of Colleges, who have had in College a good training in chemical, physical and biological science be admitted to the second year of the medical course. The question is a vital and a difficult one. It is vital because of the interest

the public has, in the adequate preparation of professional men. It is difficult, however, on the other hand, since the men themselves must at some age, and an early age-not an advanced one,-escape from the work of preparation and get actively at the work of application. If we keep the young physician too long in training, we may deprive him of all power of initiation; and this means to deprive him of all that makes him really valuable as a professional man. are two sides to be looked at in all questions, and the true solution will only be found by mutual concessions. cannot afford simply to add years to the course; because every year added is just so much subtracted from the years of a man's professional life, and that, too, from those years when the man is most vigorous, energetic, and most likely when thrown upon his own resources to gather and develop the initiative and independence that are indispensable to his success and his usefulness.

We cannot expect to turn out at graduation perfect physicians, any more than we can turn out from an Engineering School perfect engineers. In all cases, much in the way of necessary knowledge must be left for them to gain in the busy days of active practice. But as to one thing, we must take great care. We must not hold the student beyond the years when he should begin to work at his profession for himself, nor should we directly or indirectly cultivate in him the thought that he is always to be dependent upon superior guidance. A learner one must always be, but we should early be trained to find our learning for ourselves. Is not the ideal professional man he who has come by training into full possession of the powers that are in him, and has acquired in addition the necessary foundations of technical professional

knowledge? If a man has thus been trained to the full possession of his powers, he cannot but grasp more speedily and more intelligently the principles of professional knowledge, and this the more surely if there shall have been included in the elements of his training such subjects as are strictly introductory to the profession he proposes to enter. Now, the one Institution that we have whose express object is this putting a man in possession of his powers is the College, and, notwithstanding individual exceptions, in the main it must be admitted that it succeeds in accomplishing its object. This is the ground, I think, on which those who advocate a bachelor's degree as an advisable, if not a necessary antecedent of a medical course, base their opinion. It is not because of that indescribable thing called culture, but because the College graduate is likely to have a firmer grip upon himself than has his fellow. If it be remembered too, that in College courses, at least in the larger Institutions, as now constituted, there is ample provision made for very high grade instruction in chemical, physical and biological science, it becomes clear that probably a considerable percentage of their graduates are in every way, both general and special, better prepared for starting on a course of Medical studies than their fellows who are non-graduates. Every step should be taken in the direction of encouraging the entrance of men into the Medical School previously and fully prepared by general and specific College training. The proper method of approaching the solution of this difficult problem appears to me to determine when the preparatory work ends and the medical course proper begins. The line is to be drawn and the entrance requirements fixed accordingly. The Colleges will be glad and eager to take up their share in the work, for upon that score there need be no fear.

There is but little in the report of the Dean that calls for special comment. The total registration has slightly fallen off, owing to causes that were noted and discussed in

the report of last year. This is, however, in a measure offset by a gratifying increase in the numbers of the First Year Class. We may hope, of Law therefore, that the causes which produced the falling off, temporary in their nature, may have by this time had their maximum of effect, and that, consequently, more normal conditions have already set in.

The work of the School has gone on as usual. It has not, however, become mere routine work. Many advances have been made. New courses have been instituted and old ones modified. New regulations have been made as to the amount of weekly work to be required of the student with a view to assuring him, as far as may be done by regulations, the maximum of profit from his course, in view of his subsequent professional duties.

Much importance is assigned by the Dean, and no doubt rightly, to the lectures that have been delivered in the course of the year by lawyers of standing and of eminence, on various aspects of the lawyer's professional life, and on the lives and works of eminent jurists of our country. Such lectures, dealing with legal topics from an extra academical point of view, or handling subjects of legal history and achievement for which room cannot properly be found in the curriculum, cannot fail to be profitable to the student at law and will be, if continued, as there seems to be a prospect that they will be, a valuable addition to the School programme.

The Biddle Memorial Library continues its useful work. The additions to it made this year are noteworthy and will furnish in the future valuable original material not only for the lawyer but for the student of history. The actual circulation of the books is an indication at once of the service the library is rendering and of the diligent use the students of the School are making of the advantages thus placed at their disposal.

The Dean's brief note of the publications of the Department is interesting and deserves special attention.

This Department shows an increase, small but encouraging in the numbers of its entering class. Evidently, as the Dean notes, the exceptional conditions which in the previous year caused a diminution in the number of matriculating students have worked themselves out and normal conditions have again set in. Particularly The noticeable is the large percentage of students Department who have come from foreign parts, some very of Dentistry remote, to avail themselves of the facilities offered. The mere fact of the price they are willing to pay, and not merely in money, but in time and absence from friends and family connections, would have stamped these students, if we had had no other test, as a very desirable addition to our student-body; not to speak of the "gratifying index thus afforded to the reputation which our institution has achieved and is maintaining abroad."

Besides the regular academic work of the course prescribed, the Dean notes as worthy of particular interest, the activity of the three student Societies, which hold regular meetings throughout the academic year, in all of which papers of professional interest are read. Such evidence of

independent interest in the work of their profession cannot but be of incalculable value in developing in the future practitioner a scientific view of his work. And, besides, this development in our Dental students of habits of accurate observation and careful logical statement, these Societies will tend to the uplifting of the profession itself, and will lay the foundation for future investigation of scientific facts and improvements in processes and methods. Akin to these in object and results is the Penn-Dental Journal, edited and managed entirely by the students themselves, and largely subscribed for by both students and alumni. No better means could be devised than these for early impressing the Dental student with the duty imposed upon him; a duty towards his profession and through it to the community at large, of doing all that may come in his way to do for the advancement of his specialty and of recording in accessible place any observation or experiment he may have been led to make. It is thus that investigators take their first steps, and it is in these ways that the seeds are sown of future discoveries.

The report of the Dean of this Department is like that of last year. It is a record of hard and earnest work, done under conditions that are most unfavourable and must be very depressing. The more honour, therefore, is due to those who have never abated Veterinary one jot of heart or hope, but have continued Department labouring faithfully, in season and out of season.

There is, however, now more than a ray of light to cheer the heart and refresh the strength of the Department. An anonymous friend of the University and of the Department has given \$100,000 as an

endowment for the support of the work; while the State of Pennsylvania has given \$100,000 for the erection of the building that has been so long and so sadly needed. The State requires, as a condition of its gift, that in the new building to be erected, laboratories shall be provided for the use of the State Live Stock Sanitary Board in its work of investigation of the diseases of domestic animals. This condition, as the Dean points out, so far from being a limitation, will really be an added advantage to the School itself,—while it will be of undoubted benefit to the State, as well. Each of the parties, State and School, will be distinctly the better off for the conditions thus attached to the appropriation.

The importance of such a School as ours to the community is sufficiently attested by the fact, noted by the Dean, that the value of livestock owned in the United States has increased since the census of 1900 was taken, by \$249,000,000. With such values at stake, it is inevitable that the public at large should come to a proper estimate of the value to them of a profession which is prepared by expert methods to safeguard their large investments, and it is also inevitable that they will come to appreciate at its proper worth, the service the University is doing in maintaining and improving, in the face of manifold difficulties, this School of Veterinary Medicine.

A question intrinsically difficult of solution has arisen as to the interrelations of the Medical and the Veterinary Departments in regard to subjects wherein the work of the two Schools "interlock," as the Dean phrases it. Indeed, a similar question is touched on by the Dean of the Medical Department, as arising from similar conditions between his Department and that of Dentistry. Such questions are bound to arise in a large University, which is growing and progressive. Such questions can probably never receive a solution which is good for all time. The inevitable progress of science is bound to render inefficient any arrangement which may at a given moment be arrived at. If an adjustment which promises to work well for a reasonable time in the future can be secured, it is as much as we have a right to expect, holding ourselves always in readiness to go over the question, or a similar one, again, whenever necessity may arise. Mutual goodwill and an earnest desire to serve the best interests of the whole University, on the part of the several faculties, may always be counted upon.

During the past year, the Institute lost, through resignation, the valuable services of its Director, for the past nine years, Dr. Horace Jayne. Over and above the thanks due to

him for his official services as Director in supervising the equipment of the Museum, which at the time he entered it had as yet hardly advanced beyond its initial stage, and in the framing of plans for its future usefulness and growth, it is but proper to mention his large gifts of collections, purchased from his own funds, and of many valu-

On January 11th, 1905, Dr. Milton J. Greenman was elected to succeed Dr. Jayne, as Director of the Institute.

able scientific books, now in the Museum Library.

The new Director, having in view a more definite plan for carrying on the work of the Institute, and to define its relations to similar Institutions, as well as to bring it into touch with them and with investigators in Anatomy generally, called a conference of ten leading American anatomists for advice and consultation. This conference met at the Institute on April 11th and 12th, and framed recommendations touching all the points raised. These recommendations may be read at length in the Director's report, and I need not repeat them here.

In accordance with the recommendations of this conference, the Institute created an Advisory Board of Anatomists. The names of those who have been chosen members of this Board will be found in the Director's report. The Director expresses the hope that with the assistance of the Board thus created, the Institute will become an important central Institute for investigators in Anatomy.

On the recommendation of the Advisory Board, Dr. Henry H. Donaldson has been appointed Professor of Neurology, and is to assume charge of his department of the Institute's work in October, 1905.

Large accessions have been made to the collections of specimens, and considerable additions to, and improvement of, the laboratory equipment.

Twelve specimens were loaned during the year for lecture purposes, and twenty-four to other laboratories, at Smith College, the University of Michigan and the University of Leipzig, for purposes of research.

Two papers have been published on the fishes in the collections in the Museum, resulting in the description of four-teen new species and two new genera, and another paper on "The Mechanics of Dislocation of the Hip Joint," is rapidly nearing completion.

peculiar regret.

It is with regret that I report to your Board the resignation, in the course of the past year, of Mrs. Sara Y. Stevenson, the President of the Board of Managers, and long the

Curator of the Egyptian Section. Mrs. Steven-The son's head and hand were busy in the work of Department the Department from its beginning, and her of Archæpersonality impressed itself deeply upon the ology organization and the conduct of the Museum. Her efficiency as Secretary, and afterwards as President, and the generosity with which she gave her time and her labor to the service of the Department are here recorded with the thanks of the University. I also acknowledge the valuable gift which Mrs. Stevenson has since made to the Museum of her collection of scarabs, amulets and textiles. Other retirements from this special University

Since the resignation of Mrs. Stevenson, Mr. S. F. Houston has filled the place as Acting-President. Mr. John Wanamaker has been chosen one of the Vice-Presidents to fill the vacancy caused by the lamented death of Prof. Maxwell Sommerville; Mr. Eckley B. Coxe, Jr., has been chosen a Vice-President; and vacancies on the Board have been filled by the election of Dr. Norton Downs, Mr. E. B. Smith and Mr. B. F. Pepper, the latter of whom has also been elected Secretary.

service are individually noted, and were the occasions of

Dr. Gordon has been chosen Curator of the Section of General Ethnology, and Dr. Bates, of the Mediterranean Section. Thanks are due to Mr. Wanamaker for important and valuable gifts to the Egyptian Section and for the replicas of Pompeiian bronzes to the Mediterranean Section. Mr. Eckley B. Coxe, Jr., has continued his generosity in subscribing, on the part of the Museum, to the Egyptian Exploration Fund and thus procuring many valuable and interesting objects resulting from the Explorations carried on under that Fund.

Much material has been gathered to enrich the American collections of the Museum, from the excursion made to Alaska by Dr. Gordon in the past summer, and as the natives of that region are fast succumbing to the influx of the new settlers, this collection promises to prove of exceedingly great value, for there is little probability that a few years hence it could be duplicated.

In the Babylonian Section the work of arranging and cataloguing the collections is going on vigorously. In the matter of publications, the Curator reports the publication of Dr. H. Ranke's monograph on "Early Babylonian Proper Names," and that four other volumes, one by Dr. Ranke, two by Prof. Hilprecht, and one by Assistant-Professor Clay, are now ready for the press, while four others are rapidly nearing completion.

In the "Transactions," papers have been published by Prof. Bates on the Etruscan Inscriptions in the Museum, by Miss H. A. Boyd and Miss E. H. Hall, on their work at Gournia, by Mr. R. B. Seager, on his excavations at Vasiliki, and by Dr. Alfred Emerson on a torso of Hermes, in the Drexel Collection of Greek and Roman statuary.

The Hospital continues its beneficent duty of caring for the sick, and has added materially during the year to its facilities for doing this, its proper work, and at The the same time, has provided most thought-University fully for the comfort of its suffering inmates.

Hospital. Three Sun Parlors have been added to the Wards in the Gibson Wing, so that now each Ward has one of its own. The accommodations for private patients have been increased by the addition of two new suites.

An isolation building is now completed and ready for use, should any infectious case occur in the main hospital. This will both protect the other patients and obviate the necessity, hitherto existing, of sending the infected patient to the Municipal Hospital.

Many gifts have been made, which are fully set forth in the Treasurer's report.

This is the first year in which appears the report of the Professor of Physical Education and the Director of the Department. The formal opening of the new Gymnasium took place on December 14th, 1904. The Gymna-Department nasium, and the improvement of the physical of Physical condition of Franklin Field, are the splendid Education gifts to the University by our Alumni. No other University interest of equal significance and importance has ever been undertaken solely by our Pennsylvania men and carried to so complete and brilliant a conclusion.

Following the dedication of the Gymnasium your Board made certain rules, providing in the first place that the course in Physical Education be made an integral part of the University curriculum; and, later, directing as to the amount of gymnastic or athletic work which would be required in the different Departments, both in the several sub-divisions of the College and in our Professional Schools.

Dr. McKenzie's report makes so plain the distinction between athletics and physical education, and he defines the difference so clearly, that I am sure that every one who may read this reference will prefer to study the entire statement of the Director of the Department, rather than to have his views and purposes condensed in a few words. I particularly, then, ask that every one to whom this volume may come will read in full this first report from the Department of Physical Education.

That in the analysis of the first one thousand men examined, more than one-half presented marked defects of one kind or another, would not have been beforehand expected. Such a percentage would have been considered by all of us as antecedently improbable. That almost all of those showing these defects were capable of restoration to a normal condition is the highest evidence of the importance of this new work undertaken by our University. The magnitude of it will increase yearly, and its usefulness likewise, but, under good administrative methods, and the adoption, in time, of what may be called an ideal roster, this new Department will work in smoothly with the Departments of Instruction.

In addition to the reference made by the Director to the personal examination of the first one thousand students,

added interest must be taken in the Department of Physical Education, when that section of the report is studied which refers to the eye examinations conducted by Dr. William Campbell Posey, the Ophthalmologist of the Department, assisted by ten qualified physicians from the various Hospitals.

All of us know that the man who can accomplish a definite and important work in life is not only he who has the mental vigour, but the health as well; and the University has undertaken in these recent years no greater public service than the determination, in the words of the Director, "to develop an all-round citizen,—a man not only able to will and to plan, but with the vital and the physical qualities to carry out to complete execution, the plans and purposes which his mind formulates."

Much public criticism has been directed to the inter-University athletic contests occurring in the autumn of each year; but even more public interest and encouragement have

been manifested in them. If moderation be the rule of life, we have certainly broken the rule in athletics, and their consideration has become a very serious matter to Universities.

Colleges and Schools, as well. With the growing and healthy interest in out-door sport and recreation, and with the American love for open-air games, the question to be settled seems not to be the abolition of the game of foot-ball, and other sports,—but their restoration to a clean and manly and wholesome addition to our University student life. If victory at any cost rather than defeat with honour, is to be the stronger influence, there will be no decency in athletic teams,—as teams,—straightforward and upright as the majority of the

members of athletic teams undoubtedly are. It may be the minority which saves in politics and government, but it is the minority which has brought athletics to their present regrettable condition.

Many suggestions will undoubtedly be made to remedy an ill, which is a clearly existing evil during the autumn months of every new academic year. Those which I desire to offer may not meet with approval, but they are the result of a quiet and long contemplation of the question.

It seems to me, in the first place, that the committee which governs our inter-University athletic relations—the University Committee on Athletics—should be a very small committee,—not exceeding five in number; and, preferably, a committee of three,—with absolute power, and to be appointed by the Provost of the University. The absolute power conferred upon this committee should cover every question, including the eligibility of the student, the number of games to be played, and even a veto upon the appointment of a coach or coaches. There is no one who does not know that where a large committee has charge of such a matter as this it is difficult, if not impossible, to bring about the desired result. This is not the case with a small committee.

It seems to me, also, that no one should re allowed to represent the University in an inter-University game, except after a full year's residence, with steady maintenance of good scholastic standing.

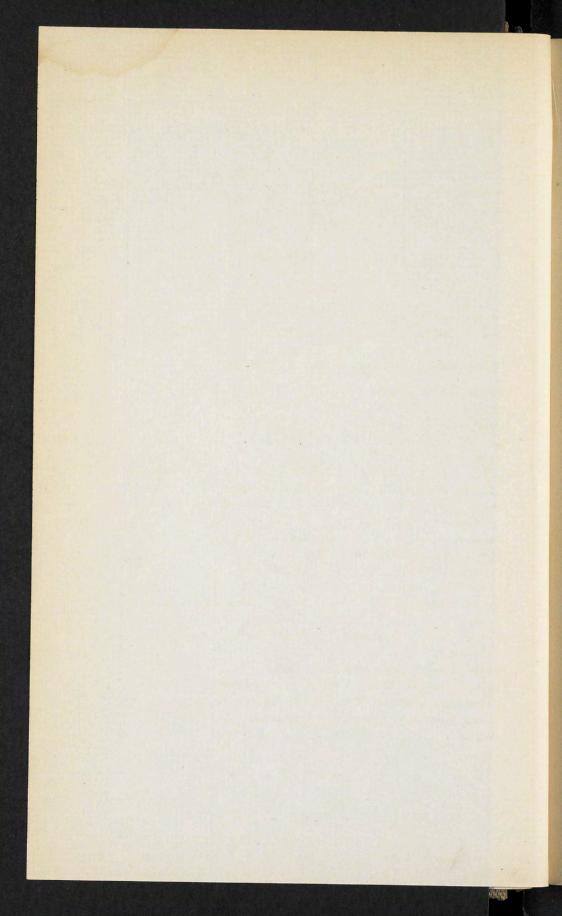
And, if, as stated in the report of the Director of Physical Education, games should be the spontaneous expression of the play instinct of young men, I would set an age limit,—having passed which, no student can be a candidate.

If these suggestions—or any of them—meet with favour, I shall be glad to take such action, under your direction, as may bring about a practical result.

In closing this report, all of us wish to express to the Civil Authorities of the City of Philadelphia, and to those of the State of Pennsylvania, as well, and to all our helpful friends, women and men, a thankful recognition in return for their constant sympathy with, and fostering care of, the University of Pennsylvania, It is difficult, indeed, to know just what to say, when every day brings to us some act of helpfulness to the University from within the limits of our own State. Their best return, as is our best reward, are the knowledge and hope that in every succeeding year, as in the past year, we may be the better prepared in all respects to enter upon and fulfil the present trust and the heritage so long committed to us.

I am, very respectfully,
Your obedient servant,
CHARLES C. HARRISON,
Provost.

APPENDICES.



APPENDIX I.

PERSONAL CHANGES

BY DEATH

WILLIAM SELLERS, Trustee.

JESSE YOUNG BURK, A.M., S.T.D., Secretary of the University.

BY RESIGNATION OR EXPIRATION OF TERM

FRANCIS POTTER SIBLEY, Treasurer of the University.

WILLIAM WEST FRAZIER, Trustee.

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

John Mumford Swan, M.D., Demonstrator of Osteology, and Students' Physician.

HORACE JAYNE, M.D., Ph.D., Professor of Zoölogy, and Director of the Wistar Institute of Anatomy and Biology.

Adolph William Miller, M.D., Ph.D., Assistant Professor of Materia Medica.

ROBERT FORMAD, M.D., V.M.D., Demonstrator of Normal Histology.

ARTHUR FERNANDEZ COCA, A.M., M.D., Demonstrator of Pathology.

WILLIAM McCLELLAN, B.S., Ph.D., Instructor in Physics.

Burnett Smith, B.S. in Chem., Assistant in Geology and Miner-

alogy.

William Thomas Leggo, B.S. in C.E., Instructor in Civil Engineering.

JONATHAN JONES, A.B., Assistant in English.

CHARLES FREDERIC BRÉDÉ, A.M., Assistant Instructor in French.

Walter Edison Kruesi, B.S. in Econ., Assistant in Economics.

WILBUR FRANCIS SMITH, Assistant Instructor in Mechanical Drawing.

ROBERT MCARDLE KEOWN, B.S., Instructor in Mechanical Drawing. Henry Shoemaker Conard, B.S., A.M., Ph.D., Instructor in Botany.

JESSE PAWLING, JR., B.S., Assistant in Physics.

JACOB ELON CONNER, A.B., Ph.D., Instructor in Economics.

THOMAS WARNER MITCHELL, A.B., Instructor in Accounting.

CHARLES WHARTON STORK, A.M., Assistant in English.

Archibald Graham Thomson, Ph.B., M.D., Instructor in Ophthal-mology.

Frank Ardary Craig, M.D., Assistant Instructor in Medicine.

CHARLES LOUIS McKEEHAN, A.B., LL.B., Lecturer on Law.

JOEL HENRY HILDEBRAND, B.S., Assistant in Chemistry.

PAUL GERHARDT CRESSMAN, A.B., M.S., Assistant Instructor in Chemistry.

WILLARD EUGENE HOTCHKISS, Ph.B., A.M., Instructor in Political Science.

LEONARD ADOLPH PECK, B.A., Assistant in English.

ROBERT JOHN HARDING, C.E., Instructor in Civil Engineering.

THOMAS HOVENDEN, M.S., Instructor in Civil Engineering.

Julius G. Kirby, B.S. in M.E., Instructor in Mechanical Engineering.

Walter Hamlin Kniskern, M.E., Instructor in Mechanical Engineering.

VERNER NISBET, M.D., Assistant Demonstrator of Pharmacodynamics.

CHARLES MORTON HOSMER, M.D., Voluntary Assistant Demonstrator of Pathology.

Samuel McClary, 3d., M.D., Assistant Demonstrator of Normal Histology.

BY PROMOTION

James Hartley Merrick, A.B., Secretary of the University.
Francis Hermann Bohlen, LL.B., Professor of Law.
Crawford Dawes Hening, A.B., Professor of Law.
Leo Loeb, M.D., Assistant Professor of Experimental Pathology.
Owen Louis Shinn, Ph.D., Assistant Professor of Chemistry.
David Linn Edsall, A.B., M.D., Assistant Professor of Medicine.
Walter Thomas Taggart, Ph.D., Assistant Professor of Chemistry.

BY ELECTION OR APPOINTMENT

WHARTON SINKLER, M.D., Trustee.

ARTHUR LATHAM CHURCH, B.S., Trustee.

CLAYTON FOTTERALL MCMICHAEL, Assistant to the Provost.

CLARENCE GRIFFIN CHILD, Ph.D., Dean of the Faculty of Philosophy.

ROBERT TAIT McKenzie, B.A., M.D., Professor of Physical Education, and Director of the Department of Physical Education.

MILTON JAY GREENMAN, Ph.B., M.D., Director of the Wistar Institute of Anatomy and Biology.

OWEN JOSEPHUS ROBERTS, A.B., LL.B., Assistant Professor of Law. DANIEL JOSEF McCarthy, M.D., Professor of Medical Jurisprudence.

HAROLD WARNER BROWN, B.S., Assistant Professor of Electrical Engineering.

James Pemberton Hutchinson, M.D., Adjunct Professor of Surgery.

THOMAS GEORGE ASHTON, M.D., Adjunct Professor of Medicine.

REUBEN ARNOLD BOGIA, M.D., Assistant in Physiology.

John Busch, M.D., Assistant Instructor in Surgery.

JEAN JACQUES ABRAM VAN KAATHOVEN, M.D., Assistant Instructor in Surgery.

I. VALENTINE LEVI, M.D., Assistant Instructor in Pediatrics.

JACK CLAXTON GITTINGS, M.D., Assistant Instructor in Pediatrics. Thomas Stotesbury Githens, M.D., Voluntary Assistant Demonstrator of Pathology.

ALEXANDER AUGUSTUS UHLE, M.D., Assistant Instructor in Genito-Urinary Diseases.

EWING TAYLOR, A.B., M.D., Assistant in Anatomy.

WILLIAM HENRY FITZGERALD ADDISON, B.A., M.B., Demonstrator of Normal Histology.

Rufus Bell Scarlett, M.D., Voluntary Assistant Demonstrator of Pathology.

WILKIE NELSON COLLINS, A.B., Assistant in English.

HERMAN CLAUDE BERRY, A.B., B.S. in C.E., Instructor in Civil Engineering.

HAROLD EZRA HILTS, B.S. in C.E., Instructor in Civil Engineering.

ALBERT WILLIAM KIEFER, B.S. in C.E., Instructor in Civil Engineering.

Albert Joseph Houle, E.M., B.S., Instructor in Civil Engineering. RAYMOND C. SEMPLE, Assistant in Civil Engineering.

ROGER CLARK WELLS, Ph.D., Instructor in Physical Chemistry.

DUNLAP JAMISON MCADAM, A.M., Assistant in Chemistry.

WILLIAM MILTON BARR, B.S., M.A., Assistant in General Chemistry. George Emerson Crofoot, B.S. in M.E., Instructor in Mechanical Engineering.

CHARLES ARTHUR FULLER, B.S. in M.E., Instructor in Mechanical Engineering.

WILLIAM JOHNSON PAYNE, A.M., B.M.E., Instructor in Mechanical Engineering.

MARTIN AUGUSTUS DOYLE, B.M.E., Instructor in Mechanical Engineering.

EARL DEAN HOWARD, Ph.M., Instructor in Banking.

JOSEPH ALBERT BECK, B.S. in Econ., Assistant in Political Science.

ENOCH MARVIN BANKS, Ph.D., Instructor in Economics.

Louis William Flaccus, Ph.D., Instructor in Philosophy.

HENRY LAMAR CROSBY, Ph.D., Instructor in Greek.

Maurice Jefferis Babb, B.S., Instructor in Mathematics.

WALTER KELLER HARDT, B.S. in Econ., Assistant in Accounting.

George Benjamin Mangold, A.M., Instructor in Sociology.

JOSEPH HENRY STANNARD, JR., Instructor in Drawing.

THOMAS CONWAY, JR., B.S. in Econ., Assistant in Finance.

George William Keller, Assistant in Drawing.

LIVINGSTON CORSON, B.S., Assistant in English.

PERCY VAN DYKE SHELLY, B.S., Assistant in English.

JACOB LYNFORD BEAVER, E.E., Instructor in Electrical Engineering. PHILIPPE DE LA ROCHELLE, B-ès-L., Assistant in French.

JOHN JAMES SULLIVAN, A.M., LL.B., Instructor in Commercial Law.

Louis Henry Losse, B.S. in C.E., Instructor in Civil Engineering.

Francis Markoe Rivinus, A.B., Assistant in English.

LEWIS BURTRON HESSLER, A.B., Assistant in English.

HUGER ELLIOTT, B.S., Instructor in Architecture.

ELON KANAGA, D.D.S., Demonstrator of Crown-and-Bridge Work. NORMAN L. ROBERTS, D.D.S., Demonstrator of Operative Dentistry. HOWARD CHILDS CARPENTER, M.D., Instructor in Pediatrics.

Penn-Gaskell Skillern, Jr., M.D., Assistant Demonstrator of Normal Histology.

HAROLD BACON WOOD, M.D., Assistant Demonstrator of Normal Histology.

CLIFFORD BAILEY FARR, A.B., M.D., Instructor in Physical Diagnosis.

DAVID KAPP, Assistant Demonstrator of Pathology.

WILLIAM WARDER CADBURY, M.D., Assistant Demonstrator of Pathology, and of Pharmacodynamics.

RALPH S. LAVENSON, M.D., Assistant Demonstrator of Gross Morbid Anatomy.

JOHN Speese, M.D., Voluntary Assistant Demonstrator of Surgical Pathology.

THOMAS BEAVER HOLLOWAY, M.D., Instructor in Ophthalmology.

CHARLES ANDREW FIFE, A.B., M.D., Instructor in Pediatrics.

Samuel H. Gilliland, V.M.D., M.D., Demonstrator of Veterinary Medical Diagnosis.

JOSEPH WOLSTON HUFF, A.B., Reader in History.

WINFRED TREXLER ROOT, A.B., Reader in History.

ARTHUR GUY TERRY, Ph.D., Assistant in History.

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 upon the work of the College for the year 1904-05.

CHANGES IN THE FACULTY.

The resignation of Professor Dana was received with regret. He had held the position of Professor of Art for sixteen years and his services which he very generously gave to the University were of great value to students in the courses in Architecture. The position and title vacated by the resignation of Professor Dana have been filled by the promotion of Assistant Professor Everett, who was granted leave of absence for the year 1905–06 to pursue studies in the art centres of Europe. On his return to the University the courses in Art and the History of Art will be increased in number and scope.

In recognition of valuable service rendered and ability shown in their respective subjects, Dr. Owen L. Shinn and Dr. Walter T. Taggart were promoted to be Assistant Professors of Chemistry and Dr. William McClellan to be Assistant Professor of Physics. Dr. McClellan resigned during the summer vacation to accept a position as Electrical Engineer in charge of important work.

Leave of absence for the year 1905-06 was granted
(46)

Professor McMaster, who needed freedom from University duties to enable him to complete portions of the important historical work on which he has been engaged for a number of years. Some of his courses will be given during his absence by Dr. Arthur Guy Terry, Harrison Fellow in History 1902–03, 1904–05, who has been appointed for the year Assistant in History.

Assistant Professor Bates was honored by the appointment as Annual Professor of Greek in the American School of Classical Studies at Athens for the year 1905–06, and was granted leave of absence by the University in order to enable him to accept the appointment. Dr. H. L. Crosby has been appointed Instructor in Greek during the absence of Dr. Bates.

Every large university has, each year, the problem of filling a considerable number of instructorships, owing to the fact that such instructorships are the stepping stones to advancement, both of title and salary, which frequently comes most quickly in the form of offers from other institutions. Another cause for a considerable number of changes in the teaching staff is the desire of men who have received technical or professional training to enter upon the practice of their professions after having equipped themselves more thoroughly for their work by a year or two of teaching. Superior financial inducements are often the deciding factor.

The following instructors resigned at the close of the year: J. A. Beck, Reader in History; A. C. Bogges, Reader in History; C. F. Brede, Assistant Instructor in French; J. E. Conner, Instructor in Economics; P. G. Cressman, Assistant Instructor in Chemistry; B. S. Easton, Instructor in Mathematics; R. J. Harding, Instructor in Civil Engineering; J. H. Hildebrand, Assistant in Chemistry; W. E. Hotchkiss, Instructor in Political Science; T. Hovenden, Instructor in Civil Engineering; J. Jones, Assistant in English; R. McA. Keown, Instructor in Mechanical Drawing; J. G. Kirby, Instructor in Mechanical Engineering; W. H. Kniskern, Instructor in Mechanical Engineering; W. E. Kruesi, Assistant in

Economics; W. T. Leggo, Instructor in Civil Engineering; William McClellan, Instructor in Physics; T. W. Mitchell, Instructor in Accounting; J. Pawling, Jr., Assistant in Physics; L. Peck, Assistant in English; B. Smith, Assistant Instructor in Geology and Mineralogy; W. F. Smith, Assistant Instructor in Mechanical Drawing; C. W. Stork, Assistant in English; T. R. White, Lecturer on Business Law.

The following appointments to fill vacancies and additional positions created to meet the demands of instruction were made for the year 1905-06: M. J. Babb, Instructor in Mathematics; E. M. Banks, Instructor in Economics; W. M. Barr, Assistant in Chemistry; J. L. Beaver, Instructor in Mechanical Engineering; Jos. A. Beck, Assistant in Potitical Science; C. Berry, Instructor in Civil Engineering; W. N. Collins, Assistant in English; Thomas Conway, Jr., Assistant in Finance; L. Corson, Assistant in English; G. E. Crofoot, Instructor in Mechanical Engineering; H. L. Crosby, Instructor in Greek (vice Dr. Bates); P. de La Rochelle, Assistant in French; M. A. Doyle, Instructor in Mechanical Engineering: Huger Elliott, Instructor in Architecture; L. W. Flaccus. Instructor in Philosophy; C. A. Fuller, Instructor in Mechanical Engineering; W. K. Hardt, Assistant in Accounting; L. B. Hessler, Assistant in English; H. E. Hilts, Instructor in Civil Engineering; A. J. Houle, Instructor in Civil Engineering; Earl D. Howard, Instructor in Banking; J. W. Huff, Reader in History; George Keller, Assistant in Drawing; A. W. Kiefer, Instructor in Civil Engineering; L. H. Losse, Instructor in Civil Engineering; D. J. McAdam, Jr., Assistant in Chemistry; G. B. Mangold, Instructor in Sociology; W. J. Payne, Instructor in Mechanical Engineering: M. Rivinus, Assistant in English; W. T. Root, Reader in History; R. C. Semple, Assistant in Civil Engineering; P. V. Shelly, Assistant in English; J. H. Stannard, Instructor in Drawing; J. J. Sullivan, Lecturer on Business Law; N. E. Sutphen, Instructor in Wood-working; A. G. Terry, Assistant in History; R. C. Wells, Instructor in Physical Chemistry.

CHAPEL ADDRESSES.

The Chapel exercises were made of especial interest by addresses during the year by the following speakers: Rev. Kerr Boyce Tupper, Rev. Trumbull Lee, John C. Bell, Esq., Judge Robert N. Willson, Dr. Wilfred T. Grenfell, Rev. Dr. W. H. Oxtoby, Rev. Howard Agnew Johnston, Rev. C. A. R. Janvier, Rev. Richard Montgomery, Rev. Charles Wadsworth, Jr.

THE ADMINISTRATION OF THE ELECTIVE SYSTEM.

The transition from the strict and personal supervision under which a student is placed in a preparatory school, especially during his last year, to the larger measure of freedom in college is the source of many problems to parents, to students, and to college administrative officers. The Freshman year, and particularly the first half of it, is a critical time in a young man's life, and it not infrequently happens that he does not realize the dangers and the responsibilities, resulting from a measure of personal liberty to which he is unaccustomed, until he has formed habits and associations which do him no good. The elective system, which, however much it may have to recommend it, requires care in its proper administration, may work harm to a student by encouraging him to avoid subjects which he regards as difficult or imagines to be distasteful. He may contract the habit of doing the thing that is easy or pleasant rather than the thing that will be of the greatest benefit to him. There has been a sacrifice of the disciplinary value of a required college course for the sake of the superior advantages to be derived from allowing a student to select from the whole list of subjects those which he wishes for any reason to take. In order that the elective system may accomplish its purpose and the freedom of college life may not prove to be too great for the good of the student, it is necessary that some wise and effective supervision be exercised over him from the time he enters college.

Every large university has been struggling with the solution of the problem how to make the college course of the greatest permanent value to the student, for, despite the undoubted benefits to be derived from participation in athletics and in the many musical, literary and social organizations to be found in every college, it is necessary to insist that these shall not infringe upon the time which must be given to study, if a degree is to represent something more than the mere fact that certain examinations have been passed. To insure the educational value of the college course and a definite and considerable amount of uniformity in the value of its degree, the College in 1902, in adopting a modification of its former elective system, required the completion by each candidate for a degree in the course in Arts and Science, Finance and Commerce and Biology* of sixty units of work of which twenty-two are definitely prescribed and consist of fundamental subjects, History, English, Mathematics, Languages, Logic and Ethics, Chemistry and Physics, and eighteen must be taken in groups consisting of six units of each of three or nine units of each of two subjects. The remaining twenty units may be elected freely by the student, who in most cases takes additional units in his group subjects. With the adoption of these regulations came also a system of advisers, each student being assigned to a member of the faculty designated for this purpose. No course of study can be entered upon without the consent of the adviser given by signing the course card filed at the Dean's office. This system has worked admirably and has been modified in some particulars as experience and the needs of students showed to be desirable. The latest modification will take effect in 1905-06, when an adviser will be assigned to every ten Freshmen in the elective courses, the need of personal supervision diminishing as the

The work in the technical courses in Engineering, Chemistry, and Architecture is all prescribed.

^{*}A unit is one hour of lecture or recitation, or two hours of laboratory work per week for one year.

student passes successively into the Sophomore, Junior, and Senior classes. With the sympathy and interest shown by every member of the faculty in whatever concerns the happiness and welfare of the students, it is safe to say that no college students have more done for them to minimize the dangers arizing from the freedom of college life and the human tendency to sacrifice future usefulness for present ease. modifications of courses made in 1902 enabled the student of unusual ability or industry to take more work in a year, if he desired to do so, than his less able or less industrious fellow. so that sixty units credit could be earned in three years, instead of the usual four. The successive steps in the transition from the admirable old-fashioned college course to the present have been made in recognition of the truth that the system must exist for the student and not the student for the system, that the developing of the best that is in each individual by allowing, within reasonable limits, for differences of tastes, temperaments or abilities, is essential to the accomplishment of the purposes of college education.

CHANGES IN COURSES.

Important legislation which will be found in detail in the report of the Dean of Philosophy was enacted by joint action of the Department of Philosophy and the College, ratified by the Board of Trustees. The result of this is the enrichment of the work of both departments by the inclusion of a number of courses which have heretofore been given only to students in the one or the other. The College courses which under this new arrangement have been made available for graduate students are, in every case, of an advanced nature.

With the year 1905–06, the old four-year courses known as courses in Science and Technology, will disappear from the catalogue announcements, as arranged for two years ago, no new students having been admitted to them for three years. The four-year technical courses have thus entirely superseded

the five-year courses in which a larger amount of non-technical work was included. The problem of which some years ago the five-year courses were thought to be a solution is still recognized, and is the need of general studies of great cultural value to students who are looking forward to technical pursuits. Under the elective system now in force in the Arts course, it is possible for a student to complete that course and one of the four-year technical courses and earn two degrees in six years. The integrity of each degree will be in no wise impaired by compromises or concessions to the requirements for the other. The student who desires to do so can still devote five years to his course and include in it a number of subjects not required as a part of the four-year technical course.

GYMNASIUM REGULATIONS.

A great need of the University has been met by the completion of the Gymnasium, and students in the College are required to comply with the following regulation of the Board of Trustees:

"Two periods will be required lasting one hour each, of all full students, and of partial and special students as provided by a special form; the work to be graded and made progressive throughout the four years. Exceptional cases to be excused from this requirement when approved jointly by the Director of the Department of Physicial Education and the Dean of the Department."

CHANGES IN THE ARRANGEMENT OF THE COLLEGE YEAR.

It has been the custom to devote every year two periods of two weeks each, to examinations. As the academic year, including recesses at Thanksgiving, Christmas, and Easter is barely nine months in length, this amount of time given to term examinations has seemed disproportionately large. There has been need also of a longer recess at Easter, which

it was not possible to grant without still further decreasing the number of days actually devoted to teaching. To meet the first of these problems and incidentally to make a solution of the second possible, without loss of working days in the College, the Academic Council in June last made the following changes in the arrangement of the College year:

- 1st. In subjects extending through the year, no examinations will be held and no marks given at the middle of the year (except in Wharton School).
- 2nd. For subjects completed at the end of the first term, one week will be set apart for examinations for such subjects as require it (except in Wharton School).
- 3rd. The Easter vacation will be lengthened so as to include the whole of the week beginning Easter Monday.

Public Recognition of Students Who Have Won Academic Distinctions.

It was formerly the custom to make public announcement at the Commencement exercises of the names of students who had attained distinction in their class standings or had won prizes. The necessity of shortening the time devoted to Commencement led to the omission of all matters not directly connected with the conferring of degrees, hence for several years there has been no occasion on which the University formally and publicly recognized its students who had during the year won academic distinctions. It was felt that some plan should be devised for meeting this very just claim to recognition and for this purpose the Academic Council appointed a committee to consider the question and report. As the Φ B K and Σ Ξ Societies award memberships to students who have made notably good records in their studies, the Committee recommended, and the Academic Council approved the recommendation, that public announcement of honors and prizes be made at the annual joint meeting of these societies in Commencement Week. This was done in June 1905 and will be annually hereafter.

THE EVENING SCHOOL OF ACCOUNTS AND FINANCE.

During the past year there have been given a number of courses of instruction in Accounting and Finance to a very serious and mature group of men, who, by reason of their daily occupations, are not able to attend the regular College classes at the usual roster hours. It was to meet what was recognized as a genuine need that the University authorized some of its instructors to arrange courses to be given in the evenings and I append, as a matter of very general interest, a report of Dr. E. S. Meade, who was appointed Director of the Evening School of Accounts and Finance.

The report of Dr. A. H. Quinn, Director of the Summer School, is also appended, as are also statistical tables, giving information concerning total registration in the College, Admission to College, Group Elections in the course in Arts and Science, Geographical Distribution of Students in the College, Comparative Standings of Students Admitted by Examination and by Certificate from Public High Schools, Students Withdrawn, Schools and Colleges from which students came, and Scholarships.

> Respectfully submitted, Josiah H. Penniman, Dean.

REPORT OF THE DIRECTOR OF THE EVENING SCHOOL. To the Dean of the College:

SIR: I submit the following report of the Evening School of Accounts and Finance for the year 1904-05.

The total enrollment in the Evening School of Accounts and Finance was:

Of the students registered for the first term 95 pursued the regular course of four evenings per week, and the remainder pursued special courses.

Of the students enrolled for the regular course 83 successfully passed the final examination.

The students of the Evening School were, for the most part, men of mature age, many of them holding responsible positions. Nearly every industrial interest in the city was represented among the students. The work done in every course was of a high order of excellence, a fact to be explained by the maturity of the students, their habits of concentration, acquired in business life, the zeal with which they approached the work and their business experience, which has made a large amount of preliminary instruction, indispensable in the Wharton School, entirely superfluous.

In spite of the fact that the students of the Evening School are all occupied during the daytime, a considerable amount of outside work was assigned and performed, in the form of writing and the preparation of reports and papers, and the solution of problems.

The method of work pursued was that of lectures and class room discussion. Stenographic notes were taken of all the lectures. These were mimeographed and distributed to the students. It was found that the efficiency of the work was in this manner greatly increased, since the students were able to give their undivided attention to the work of the classroom and receive the results of this work in complete form in their notes. Two examinations and numerous quizzes were given during the year, the final examination being more severe than that imposed upon the students in the same subjects in the Wharton School. The percentage of failures as has been already remarked, was small. The results of the work of the first year and the fact that the enrollment during the second year has almost doubled, convince me that work of this character can be made both profitable and attractive.

The entrance requirements to the Evening School are

now equivalent to those imposed upon students for admission to the course in Business Practice and Banking in the Wharton School.

The Evening School already has enrolled a large number of high school graduates, and it is expected that this number will materially increase. Those students who are not able to present high school certificates or college diplomas are, with few exceptions, men of mature years and long business experience. The average age of students in the Evening School is 28 years.

Respectfully submitted,

E. S. MEADE,

Director.

REPORT OF THE DIRECTOR OF THE SUMMER SCHOOL.

To the Dean of the College:

Sir: I am sending to you a report of the work of the Summer School for the session of 1905. It gives me great pleasure to inform you that the total registration amounted to 212 students compared with 137 last year. Of this year's students, 149 were men and 63 were women.

The geographical distribution of students this year compared with last year is as follows:

	1905	1904
Canada	 I	
Delaware	 5	I
Florida	 	I
France		I
Germany		2
Illinois		I
Kentucky	I	
Maryland	3	
Massachusetts	1	
Minnesota	T	
Missouri	T	
Nebraska	T	•
New Jersey	13	7
New York	4	,
North Carolina	7	2
**************************************	 	1

Ohio	3	2
Pennsylvania (outside of Philadelphia)	72	35
Philadelphia	98	80
South Carolina	I	
South Dakota	I	
Texas	I	I
Virginia	I	
Washington, D. C.	3	2
Wisconsin	I	
Utah		I
	-	
	212	137

Of this year's students, 82 had previously registered in the College, 25 had been members of the teacher's courses, one student had registered in the Department of Law and 8 in the Department of Philosophy, consequently there were 96 students in the Summer School who have not attended the University in another department.

The total number of courses subscribed for was 382. Below is a comparative statement of the courses subscribed for this year and last year.

	No. of I	nstructors	Cou	irses
	1905	1904	1905	1904
Architecture	I	2	14	20
Botany	1	2	6	6
Chemistry	4	4	41	16
English	2	3	63	48
French	I	I	29	7
German	I	I	55	24
Greek	I	I	5	10
History	2	I	21	4
Latin	I	1	29	29
Mathematics	4	4	85	49
Music	I	0	5	
Physics	I	1	19	10
Psychology		1	10	4
	_	_		
	21	22	382	227

During the school session an elaborate program of lectures, excursions and other entertainments was arranged.

These entertainments were greatly appreciated by the students. In this connection I wish to emphasize the services of Professor Hugh A. Clarke, who not only delivered a most interesting course of lectures himself, but also arranged for the organ recitals and secured the services of prominent musicians in Philadelphia to give these recitals. I wish also to lay stress upon Dr. McKinley's services in taking charge of the excursions.

I would mention here the importance of offering courses in Pedagogy and Physical Training for next year.

The success of the Summer School cannot be measured simply by the number of students in it. Its influence will increase materially the total enrollment of the University.

Respectfully submitted,
ARTHUR HOBSON QUINN,
Director.

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C	5	τ	

		oj.			Sci	Sc., ence a	nd gy.		à		ical				
	A., Arts and Science.	Wh., Finance and Commerce.	B., Biology.	M., Music.	Sc. r, Chemistry.	Sc. 2, Civil Engineering.	Sc. 3, Mech. and Elec. Eng.	Chemistry.	Chemical Engineering.	C. E., Civil Engineering.	M. E. and E. E., Mechanical and Electrical Engineering.	Arch., Architecture.	Totals.		
Post-Seniors Seniors Juniors Sophomores Freshmen	60 54 54 76	23 28 37 52	10 4 8 8		2	1 3 5 	 2 I	6 16 17 7	4 7 4 II	19 29 49 47	25 39 58 79	1 8 17 15 22	2 160 202 242 302	Post-Seniors. Seniors. Juniors. Sophomores. Freshmen.	
Fourth Year Second Year First Year	 1 	 7 22		4 9 11 10				 1		 I 		 14 15	4 11 33 55	Fourth Year. Third Year. Second Year. First Year.	Students in Special Courses.
Partial Students	21	57	8					21		23	19	12	161	Partial Studen	ts.
Totals	266	226	46	34	2	9	3	68	26	168	220	104	1172	Totals.	

Students taking Courses for Teachers	 181
Students in the Summer School-1905	 212
Evening School of Accounts	 159
Total	 1724

TABLE II.

SHOWING ADMISSIONS TO COLLEGE, 1904.

Average age of students entering Freshman Class in 1902, 18 years, 10 4 days.	moi	nths,
Average age of students entering Freshman Class in 1903, 19 years, 4 n days.	nontl	hs, 7
Average age of students entering Freshman Class in 1904, 18 years, 11 8 days.	mor	nths,
Total number of applicants		60.
Applicants admitted on examination.		684
Applicants admitted on challenge in the least of the leas	126	
Applicants admitted on public high school diploma	217	
Applicants admitted to advanced standing	45	
Applicants admitted to special and partial courses	140	
	-	528
Applicants rejected on examination	9	
Applications postponed and incomplete	25	
Applications rejected and withdrawn	18	
		52
Applicants taking preliminaries and receiving credits	00	54
Applicants taking preliminaries and receiving credits	88	
Applicants taking preliminaries and receiving no credits		
		104
Total	-	60.
		684

APPLICATIONS	CONSIDERED	BY COMMITTEE ON ADMISSION TO SPECIAL A	ND
		PARTIAL COURSES.	

Applications on which the Committee took action		158
Total applications approved	140	
Total applications rejected	-1-	
Total applications withdrawn		
	18	

Applications Considered by Committee on Admission to Advanced Standing.

Applicants who entered College	45	
Applicants who did not enter College	0	
		45

Applications Considered by Committee on Schools and Entrance Requirements.

Total number of cases acted upon Applicants admitted on diploma without Applicants admitted on diploma with exa	examination
Admitted from Philadelphia schools Admitted from Pennsylvania schools Admitted from schools in other States Admitted on certificates from other colleges	
Examination Board	7
ADMITTED WITH	CONDITIONS IN
English A 4	Mathematics E
	History A 5
225	
Latin A 3	
Latin B 4	History C 4
Latin C 8	History D 6
Latin D 6	Greek A I
Latin E 7	Greek B 1
Latin F 8	Greek C 4
Latin G 12	Greek D 5
Physics 17	Greek E 8
Mathematics A	French A 9
Mathematics B 8	French B

TABLE III.

German A..... 8

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

	1904-1905.		
	Juniors.	Seniors	
Botany-History-Zoölogy	1		
Botany-Zoölogy	6	I	
Botany-Zoölogy-Medicine		9	
Chemistry-Botany-German	I		
Chemistry-English	2		
Chemistry-German-Mineralogy		I	
Chemistry-German-Latin	I		
Chemistry-Mathematics-Physics		I	
Chemistry-Mineralogy		I	
Chemistry-Mineralogy-Physics		1	
Chemistry-Zoölogy	2 .		

	1904-1905.	
	Juniors.	Seniors.
Economics-English-French		I
Economics-English-German		1
Economics-English-History	2	I
Economics-German		I
Economics-History		I
Economics-History-Philosophy		I
Economics-Latin-Physics		I
Economics-Political Science		I
English-French	1	P L S
English-French-History		2
English-French-Mathematics		ı
English-German-Greek.		1
English-German-History	2	
English-German-Latin		2
English Greek History	3	I
English-Greek-History		I
English-Greek-Latin	4	I
English-History	.8	8
English-History-Latin	7	2
English-History-Philosophy	2	2
English-History-Political Science.		1
English-Latin	I	
English-Latin-Philosophy	I	
English-Philosophy	1	I
English-Philosophy-Mathematics		I
English-Physics	1	
French-German		I
French-German-Geology	I	
French-German-History		I
French-German-Latin		I
French-Greek-Latin	I	
German-History	I	2
German-History-Latin		1
German-Latin	I	1
German-Mineralogy	1	
Greek-Latin	2	2
History-Mathematics		I
Listory-Philosophy	1	
History-Zoölogy		1
Latin-Mathematics		I
Mathematics-Physics		ī
Physics-Zoölogy		ī
mjstcs-20010gj		•
Total	54	60

GEOGRAPHICAL DISTRIBUTION OF STUDENTS IN THE COLLEGE SESSION 1904-1905, FXCLIDING STILDENTS IN COURSES FOR TEACHERS. TABLE IV.

	Foreign.	Canada	II	
OK TEACHERS.	New England.	Connecticut1 Maine3 Massachusetts 6	20	1043 38 60 60 20 1177
EXCLUDING STUDENTS IN COURSES FOR LEACHERS.	West.	Arkansas 1 California 2 Colorado 1 Illinois 12 Indiana 9 Iowa 2 Kansas 1 Michigan 4 Missouri 2 Ohio 20 Oregon 1 North Dakota 1 South Dakota 1 Washington 3	1 99	
EXCLUDING STUD	South.	Alabama	38	Middle States
	Middle.	Philadelphia623 Pennsylvania296 Delaware	1043	Mi So W. We Ne Fo

TABLE V.

SHOWING RELATIVE COLLEGE STANDING OF STUDENTS IN THE COLLEGE YEAR 1904-1905, WHO WERE ADMITTED UPON EXAMINATION ALONE, AND STUDENTS ADMITTED WHOLLY OR PARTLY UPON CERTIFICATES FROM PUBLIC HIGH SCHOOLS.

Students Conditioned.

7	Total of such Stu- dents in College.	Total who were Conditioned.	Number of Conditions.	Conditions per Student Con- ditioned.
	Session 1904-1905.			
Regular Students by Certificates (wholly or in part)	537	321	1114	
tion	340	224	1014	
Standing	44	6	21	
Specials and Partials	217	123	809	
Total of College	34			
Grand Total	1172			

Table VI.
STUDENTS WITHDRAWN AND DECEASED.

	Session 1904-1905.		
	Withdrawn		
	ıst Term.	2d Term.	Deceased.
Seniors	I	5	ı
Juniors	9	12	
Sophomores	8	13	
Freshmen	12	21	
Total Regulars	30	51	I
Specials, second year		5	
Specials, first year	*	3	
Total Specials		8	
Partials	13	29	
Grand Total	43	88	I

TABLE VII.

SHOWING THE SOURCES FROM WHICH CAME THE STUDENTS REGISTERED IN THE COLLEGE IN 1904-1905.

DELITE REGISTERED II. 1.		, ,	
Prepared by	Located at	No.	
Abington Friends' School	Jenkintown, Pa	I	
Adams Academy	Quincy, Mass	1	
Alabama Polytechnic School	Auburn, Ala	I	
Allegheny College	Meadville, Pa	2	
Allegheny High School	Allegheny, Pa	2	
Altoona High School	Altoona, Pa	3	
Anniston Training School	Anniston, Ala	I	
Arequipa College	Arequipa, Peru	I	
Armour Institute of Technology	Chicago, Ill	I	
Atlanta Boys' High School	Atlanta, Ga	2	
Atlantic City High School	Atlantic City, N. J	1	
		_	16
Baltimore City College	Baltimore, Md	2	
Beaver College	Beaver, Pa	I	
Bethlehem Preparatory School	Bethlehem, Pa	3	
Birdsboro High School	Birdsboro, Pa	I	
Birmingham High School	Birmingham, Ala	2	
Blair Presbyterian Academy	Blairstown, N. J	2	
Blight School	Philadelphia, Pa	9	
Bliss Electrical School	Antrim, Pa	I	
Bloomfield High School	Bloomfield, N. J	1	
Bloomsburg State Normal School	Bloomsburg, Pa	1	
Booth Preparatory School	New Haven, Conn	1	
Bordentown High School	Bordentown, N. J	1	
Bordentown Military Institute	Bordentown, N. J	2	
Bradley Institute	Peoria, Ill	3	
Bridgeport High School	Bridgeport, Conn	I	
Brown Preparatory School	Philadelphia, Pa	17	
Bulkeley School	New London, Conn	I	
Burlington High School	Burlington, N. J	I	
		_	50
Camden High School		5	
Carbon Collegiate Institute	Mauch Chunk, Pa	I	
Cartersville High School	Cartersville, Ga	I	
Cascadilla School	Ithaca, N. Y	3	
Case and Child School	Philadelphia, Pa	I	
Catholic High School	Philadelphia, Pa	5	
Cecil County High School	Elkton, Md	I	
Central High School	Philadelphia, Pa	140	
Central Manual Training School	Louisville, Ky	2	
5			

Prepared by Located at	No.	
Central Manual Training SchoolPhiladelphia,	Ра 101	
Chambersburg Academy,Chambersbur	g, Pa 1	
Cheltenham Military AcademyOgontz, Pa	5	
Chelten Hills School	3	
Chester High SchoolChester, Pa	14	
Chestnut Hill AcademyChestnut Hill,	Phila 5	
Chicago Manual Training SchoolChicago, Ill	I	
Cincinnati Technical School Cincinnati, Ol	nio 2	
Classical SchoolPasadena, Ca		
Clearfield High SchoolClearfield, Pa	I	
Coatesville High SchoolCoatesville, P		
Colgate University		
College of City of New York New York Cit	v. N. Y. I	
College of Liberal ArtsLawrence, Ka		
College of St. Anned'Auray, Fran		
Columbia High SchoolColumbia, Pa	100	
Columbian UniversityWashington,		
Columbus High SchoolColumbus, O		
Concordia CollegeMilwaukee, V		
Conshohocken High SchoolConshohocke		
Cornell University		
Corry High SchoolCorry, Pa		
Cross (Mrs.) SchoolLouisville, K		
	— 3	319
Danbury High SchoolDanbury, Cor	ın 1	
Danville High School		
Dartmouth College Hanover, N.	H 2	
DeLancey School		
Delaware CollegeNewark, Del.		
Detroit Art AcademyDetroit, Mich		
Detroit Central High SchoolDetroit, Mich	I	
Dickinson CollegeCarlisle, Pa	1	
Drexel Institute		
DuPont Mutual Training High SchoolLouisville, K	Pa 14	
Dur ont Mutual Training Fight SchoolLouisville, Ky	y 2	
	·	60
Eastburn AcademyPhiladelphia,	Pa 3	
Eastern High School		
Edward Little High SchoolAuburn, Me.	I	
Emerson InstituteWashington,	D. C 1	
Episcopal AcademyPhiladelphia,		
Erasmus Hall High SchoolBrooklyn, N.		
Erie High School Erie, Pa		
		61

Prepared by	Located at	No.	
Fargo High School	.Fargo, N. D	I	
Farnum Preparatory School		2	
Franklin High School		2	
Franklin and Marshall College		4	
Friends' Academy		I	
Friends' Central School		21	
Friends' Select School		IO	
Friends' Select School	. Washington, D. C	I	
Fresno High School		1	
		_	43
George School	.George School, Pa	1	
Germantown Academy	.Germantown, Phila	38	
Germany Gymnasium		I	
Gettysburg College		2	
Gloversville High School		I	
Girard College		2	
Girls' High School		17	
Girls' Normal School		4	
Grand Rapids High School		I	
Gresham High School		I	
Gymnasium Plois		I	
		-	69
Hackensack High School	. Hackensack, N. J	I	
Harrisburg High School	.Harrisburg, Pa	4	
Hartford High School	.Hartford, Conn	I	
Hartford Public Schools		I	
Hatboro High School		2	
Haverford College	.Haverford, Pa	16	
Haverford College Grammar School	. Haverford, Pa	18	
Higher Normal School	.Tokio, Japan	I	
Hill School		I	
Holbrook's (Dr.) School	.Ossining, N. Y	I	
Holderness School	.Plymouth, N. H	I	
		-	47
Illinois Western University		I	
Indianapolis Shortridge High School	. Indianapolis, Ind	2	
International Correspondence Schools	Scranton, Pa	I	
Innah Wanna Institute	B B		4
Jacob Tome Institute		2	
Japan Fourth High School		1	
Johnstown High School		2	
Joliet Township High School		1	
Juniata College		1	
Juniata College Preparatory School	. Huntingdon, Pa	I	Q

Prepared by	Located at	No	
Keystone Academy	Factoryville, Pa	I	
Keystone State Normal School	Kutztown, Pa	I	
Kittaning Academy	Kittaning, Pa	I	
Konigliche Preussiche Fachschule	Rensihreid, Germany	2	
		_	- 5
Lafavette College	E B		
Langueter High School	Easton, Pa	3	
Lancaster High School.	Pancaster, Pa	I	
La Salle College	Philadelphia, Pa	4	
Lawrenceville School	Lawrenceville, N. J	2	
Lebanon High School	Lebanon, Pa,	I	
Lehigh University	South Bethlehem, Pa.	14	
Lewiston High School	Lewiston, Me	I	
Lincoln University	Chester Co., Pa	I	
Lockport High School	Lockport, N. Y	2	
Locust Dale Academy	.Locust Dale, Va	I	
London Technical Institute,	London, Eng	I	
Louisville Girls' High School	.Louisville, Ky	I	
Louisville Normal School	.Louisville, Ky	I	
Louisville School for Boys	.Louisville, Ky	I	
Lower Merion High School	. Ardmore, Pa	4	
		-	38
McKinley Manual Training School	Washington D C		
Manheim High School	Manheim Pa	2	
Manor School.	Stamford Conn	I	
Mansfield High School	Mansfield Ohio	I	
Manual Training School.	Kaneae City Mo	I	
Marston's University School	Baltimore Md	I	
Marion High School	Marion Ind	I	
Maryland Institute	Baltimore Md	1	
Massachusetts Institute of Technology	Boston Mass	I	
Masten Park High School	Buffalo N V	3	
Mauch Chunk High School.	Manch Church B-	4	
Media High School	Madie Be	I	
Mercersburg Academy.	Media, Fa	5	
Millersville Normal School	Dowleaters B.	7	
Mishawaka High School	Doylestown, Pa	I	
Montague High School.	Mishawaka, Ind	2	
Montclair High School.	Montague, Mass	1	
Moravian College	. Montclair, N. J	1	
Mount Holly Academy	Manut II. II.	I	
Mount Vernon High School	Mount Money, N. J	I	
Mount Vernon High School	Would vernon, Ohio.	4	
M Street High School	wasnington, D. C	1	
		_	41

New York State Normal College. New York City, N. Y. I
New York University. New York City, N. Y. I
Niagara University. Niagara, N. Y. 3
Norristown High School. Norristown, Pa. 12
Northampton High School Florence, Mass. I
Northeast Manual Training School Philadelphia, Pa. 44
North High School. Columbus, Ohio I
North Tonawanda High School. North Tonawanda,
N. Y. I

Philadelphia College of Pharmacy......Philadelphia, Pa..... 3 Philadelphia School for Kindergartners..Philadelphia, Pa..... I Phillips Exeter Academy......Exeter, N. H..... 7 Phœnixville High School......Phœnixville, Pa..... 3 Pine Grove High School.....Pine Grove, Pa..... Pittsburg Academy......Pittsburg, Pa...... 3 Pittsburg Central High School......Pittsburg, Pa...... 5 Portsmouth High School......Portsmouth, N. H... 1 Pottsville High School Pottsville, Pa. 2 Pratt Institute......Brooklyn, N. Y..... 1 Princeton University......Princeton, N. J.....

Princeton University Princeton, N. J.

Purdue University Lafayette, Ind.

Paraguay Institute Paraguay, S. America

Pekin High School Pekin, Ill.

3

2

54

Prepared by	Located at	No.	
Radnor High School.	Radnor, Pa	4	
realidorph Macon Academy.	Danville VI-		
Rayen righ School	Vouncetown Ob:-		
reading boys Tilgii School	Reading Pa	0	
recai Gymnasium	Ruccia		
Ridge School	Washing		
Rochester East High School	Rochector M V	I	
Rugby Lower School	Rughy England		
		I	
St. Charles High School	St Charles Minn	_	18
St. Cycil's College	Chicago III	I	
St. George's School	Nowport P. I	I	
St. Joseph's College	Dhil-d-1-1: B	I	
St. Luke's School.	Philadelphia, Pa	6	
St. Mark's School	Wayne, Pa	I	
St. Mark's School	Southboro, Mass	I	
St. Paul's School	Concord, N. H	3	
Salisbury High School	Salisbury, Md	I	
Seranton Tiigh School	Scranton Do	I	
Delicor of the Lackawallila	Scranton Do	I	
Schools in Heland	Iroland	I	
Seattle High School	Seattle, Wash	1	
Sewickiey Tilgii School	Semickler De	1	
and blue Headelily	Pittchine D-	3	
Shamokiii Tiigii School	Shamolrin Da	3	
Sherifeld Scientific School	Nove Harris C	I	
Dioux Falls High School	Siony Falle C D	I	
South Manchester High School	South Manchester.		
	Conn	I	
Springfield High Sahari	Spolrone III-1	I	
Springheid High School	Springfield Ohio		
State Conege	State College De	I	
Sines Treparatory School	Philadelphia Do	I	
~ war tilliore College	Swarthmore De	I	
Syracuse High School and Universit	Suragua N. V.	1	
o and omversit	ySyracuse, N. Y	1	
Tacoma High School	And the state of t	- 3	5
Tacoma High School	Tacoma, Wash	1 .	
Technical Institute	Friedberg, Germany.	I	
Temple conege	Philadelphia Pa	4	
Ther College	Greenville Do	I	
TORIO University	Tokio Innan	I	
Toledo High School	Tolodo Oh:-	3	
Tienton righ School	Trenton N I	3	
Timely School	Trinity N V	1	
Troy High School	Trov, N. Y	I	
	.,	- 16	

Prepared by	Located at	No.	
University of Illinois	Chicago, Ill	I	
University of Notre Dame	Notre Dame, Ind	3	
University of Pennsylvania	Philadelphia, Pa	6	
University of Rochester	Rochester, N. Y	I	
University Military School	Mobile, Ala	3	
University Preparatory School	Ithaca, N. Y	2	
University School for Boys	Baltimore, Md	I	
Ursinus Academy	Collegeville, Pa	I	
Ursinus College	Collegeville, Pa	2	
Ursinus Preparatory School	Collegeville, Pa	I	
Orsinus Freparatory School		_	21
	THE N. D.		
Villa Nova College	Villa Nova, Pa	2	
Virginia Mechanical Institute	Blacksburg, Va	I	
		-	3
Walden High School	Ellenville, N. Y	I	
Walnut Hills High School	Cincinnati, Ohio	I	
Warren High School	Warren, Pa	2	
Washington and Jefferson College	Washington, Pa	I	
Washington High School	Washington, D. C	I	
Wesley College	Winneneg, Manitoba,		
Wesley College	Canada	I	
Wesleyan University		2	
West Chester High School	West Chester, Pa	12	
West Chester Normal School	West Chester, Pa	4	
West Des Moines High School	Des Moines, Iowa	I	
Western University of Penn'a	Pittsburg, Pa	I	
West Jersey Academy	Bridgeton N. L	2	
West Jersey Academy	Westtown, Pa	2	
Wilkes-Barre High School	Wilkes-Barre, Pa	3	
William Penn Charter School	Philadelphia Pa	104	
Williamsport High School	Williamsport, Pa	I	
Wilkinsburg High School	Wilkinsburg, Pa	I	
Williston Seminary	Fasthampton, Mass	I	
Wilmington High School	Wilmington, Del	2	
Wilmington Military Academy	Wilmington, Del	I	
Wilson's Preparatory School	New York City, N. Y.	I	
Winthrop School	Philadelphia	5	
Wittenberg Academy	Springfield, Ohio	I	
Woman's College	Baltimore, Md	I	
Woodberry Forest School	Orange, Va	2	
Woodbridge School	Woodbridge, N. Y	I	
Woodward High School	Cincinnati, Ohio	I	
Woolsey School	Pittsburg, Pa	I	
Woolsey School			

Worcester Academy. Worcester High School. Wyoming Seminary.	Worcester, Mass	No. 2 I
Yale University. 1 Yeates School. 1 York Collegiate Institute. 2 York County Academy 2 York High School. 2	New Haven, Conn Lancaster, Pa York, Pa	- 161 1 2 4 1
Privately prepared	-	- I3
Total		1172

SUMMARY.

		nber of tutions.		nber o
Colleges and Universities		55		116
High and Other Public Schools:				
Pennsylvania	50		462	
New York	9		15	
New Jersey	II		17	
Delaware	I		2	
Maryland	2		2	
Ohio	3		3	
Western States	23		29	
New England States	14		15	
Southern States	12		19	
	_	125	-	564
Private Preparatory Schools:				
Pennsylvania	36		345	
New York	6		9	
New Jersey	8		13	
Delaware	1		I	
Maryland	3		5	
Ohio	I		I	
Western States	2		4	
New England States	II		20	
Southern States	9		13	
	-	77	-	411
Foreign Schools, Institutions, etc		13		14
American Technical Schools and Institutes		18	1	35
		288		1140
Privately Prepared				32
Total		*		1172

University of Pennsylvania.

TABLE VIII.

SCHOLARSHIPS.

	1	1	1	-				1			
	Arts,	Finance and	Science	Mechanical	Engineering.	Engineering.	Chemistry.	Architecture	Chemical	Engineering.	Grand Total
Full Faculty Scholarships.											
Post Senior. Seniors Juniors. Sophomores Freshmen Partials. Total	9 10 4 11			1		5 6	I 4 I	I 2 	2	I 3 I	21
10tai											100
Partial Faculty Scholarships Senior Junior Sophomore Freshman Total					:						· · · · · · · · · · · · · · · · · · ·
Total											. 5
							1				. 3
Penn Scholarship.					. 1						. 1
Total											-
Free City Scholarships.											
Seniors Juniors Sophomores Freshmen Second-year special		I I		3 3 2	 I 4 2		. I	. 2	2 I 3	1	6 6 13 7 5
Total											38
Pay City Scholarships. Seniors	I			3	2	I	7				14
Sophomores	2 .			2 2 3	5 I	I 2	 I I			I	6 10 10
											40
Totals	47	2	I	41	42	IO	16	13	13	2	187

APPENDIX III.

REPORT OF THE DEAN OF THE FACULTY OF PHILOSOPHY.

To The Provost of The University;

Sin: I have the honor of submitting herewith a report upon the work of the Department of Philosophy during the academic year 1904-1905.

COMMITTEES.

The following members of the Faculty served during the year upon the Executive Committee:

Edgar F. Smith, Vice-Provost, ex officio, Felix E. Schelling,
Amos P. Brown,
Charles L. Doolittle,
Edwin G. Conklin,
John C. Rolfe,
C. G. Child, Dean, ex officio.

THE FACULTY.

For promotions of members of the Faculty and Lecturers, I beg to refer to the report of the Dean of the College.

The following appointments were authorized by the Executive Committee:

Arthur C. Howland, Ph. D., Assistant Professor of Medieval History.

Roland G. Kent, A. M., Ph. D., Lecturer in Greek.

Mr. E. S. Corwin, Harrison Fellow in American History, was authorized to take the work of Assistant Professor Ames during his illness.

Dr. C. J. Mendelsohn, Harrison Fellow for Research in Classical Languages, and Dr. J. F. Willard, Harrison Fellow for Research in European History, were authorized to give instruction in accordance with the terms of their Fellowships. Dr. L. I. Neikirk, Harrison Fellow for Research in Mathematics, was authorized to give not only graduate instruction but also, by virtue of a precedent recently initiated, a certain amount of undergraduate instruction, the total number of hours in both Departments not to exceed the stated number permitted by the regulations.

At the opening meeting of the Department for the present year, held September 30, 1905, the record of the Department in scientific investigation for the past year was briefly reviewed. This review appeared, by courtesy of the Editor, in the Alumni Register, Vol. X. pp. 51-63. Reference is made to it here as dealing with the year covered by this Report. It affords gratifying evidence of the continued activity of the members of the Department, both Faculty and students, in the field of productive scholarship.

FELLOWSHIPS AND SCHOLARSHIPS.

Herman Ranke, Ph. D., Harrison Fellow for Research in Assyriology, completed during the year a volume of inscriptions to be known as "Tablets Dated in the Reign of the Rulers of the First Dynasty of Babylon." The volume will include copies of the tablets, an index of the names which appear in them, and an introduction in which is given a translation of a number of tablets in illustration of their character. Among other important results he has determined that Shamshi-Adad, an Assyrian king familiar from the early record but whose date had not been fixed, was a contemporary of Hammurabi. This work and the volume on "Early Babylonian Names"

published during the summer of 1904, of which Professor Newbold gave an account in his Report for the year 1903-1904 are the chief results of Dr. Ranke's incumbency of the Fellowship. He resigned it on December 31, 1904, to become Assistant Curator of the Egyptian Section of the Museum, but continued to give instruction in Assyrian and Egyptian until his resignation of this Curatorship to become Assistant Curator of the Egyptian Section of the Royal Museum at Berlin.

On January 1, 1905, Dr. Ranke was succeeded in the Harrison Fellowship for Research in Assyriology, under special terms of appointment, by Mr. Arno Poebel, a student for nine semesters in Indo-Germanic and Semitic languages in the Universities of Heidelberg, Marburg, Jena, and Zürich. Mr. Poebel has been engaged since his appointment in a study of the literature connected with the special work he is to pursue in connection with the tablets in the possession of the University, in transcribing and translating neo-Babylonian tablets dated in the reign of King Nabunaid, and in working on older Babylonian tablets, dated for the most part in the period of the first dynasty of Babylon and written, with one exception, in Sumerian.

James Field Willard, Ph. D., Harrison Fellow for Research in European History, was engaged throughout the year in investigating the subject of direct taxation during the period of the beginnings of Parliament, or, more precisely, from the reign of Edward I to and including the reign of Edward III. During the vacation of 1904, Dr. Willard pursued his investigations in England, and, by your permission, remained abroad until December examining the manuscript records of taxes in the Public Record Office and conducting research work in the British Museum. Dr. Willard's study is designed to cover the history of direct taxes of a national character, that is those laid immediately upon land or other property in the possession of all individuals and classes at one time, and not upon classes except when each and every member of a class was taxed. This, it will be seen, excludes customs and taxes upon a part

of the people or upon part of a class. Dr. Willard is also paying especial attention to the limits of the control of Parliament upon such taxes. After his return Dr. Willard continued his investigation, making use of the printed material available in this country.

Charles Jastrow Mendelsohn, Ph. D., Harrison Fellow for Research in Classical Languages, continued during the year the investigation into Plautus's use of word-play which he began in his doctoral dissertation. In his dissertation he considered word-plays on proper names. In his present study he has examined the use of words in double meanings. His memoir is practically ready for publication. It consists, primarily, of a collection of the occurrences of such word-plays and, secondly, of their classification into various divisions and subdivisions. In this classification that of Wartle is used in his "Das Wortspiel bei Shakspeare," with modifications, however, when they seemed advisable. Instances of words used in a double meaning are divided, by this classification, into two broad classes. Class I includes those cases in which the double meaning exists in the words of the speaker and does not require a remark of another character in the play to bring it out. Class II comprises those instances in which the double meaning is brought out by the dialogue, - i. e. more than one person takes part in the word-play. These two broad divisions are then sub-divided in as nearly similar a manner as was possible. The memoir will also include, as in the dissertation on the "Name-Play," a consideration of Plautus's preference for characters of one kind over others in allotting his word-plays. Statistics here, as in the case of the name-play, prove clearly that Plautus's favorite mouthpiece for a word-play is a slave, and that he hesitates to put a word-play into the mouth of a woman character, no matter what her station in life.

Roy Dykes Hall, Ph. D., Harrison Fellow for Research in Chemistry, continued, during the past year his study of the derivatives of columbium. The rich supply of material at his command enabled him to solve certain unsettled points in regard to this element, namely:

1. He has shown that the element neptunium, announced in 1876 by Hermann, does not exist.

2. He has demonstrated that the reaction of titanium with hydrogen-peroxide, regarded as trustworthy for the detection of titanium in the presence of columbium, cannot be relied upon, because columbium itself—or something which it contains—gives a color upon the addition of hydrogen-peroxide very like that imparted to titanium salts by the same reagent.

3. He has shown that peroxyfluocolumbates may be easily prepared, and that they are yellow-colored objects, and not colorless, as had been observed by certain Italian chemists.

4. He has made a careful study of a long series of organic bases upon columbium derivatives, and obtained results which have since led to studies in entirely new directions with columbium. The outcome of these will be awaited with interest.

Lewis Irving Neikirk, Ph. D., Harrison Fellow for Research in Mathematics, continued during the year his researches in the Theory of Groups. The results of six months of work with regard to groups of order p^6 were anticipated by the publication in France by Potiou of a work on this subject. Dr Neikirk then began the determination of all types of abstract groups of order p whose generational operations correspond to the partition (m-r, r). This is not yet completed. A memoir based upon his thesis, upon "Groups of order p^{m-3} ," part of which appeared in the *Transactions of the American Mathematical Society*, July, 1905, will shortly be published in full in the *Publications* of the University.

Everett Franklin Phillips, Ph. D., Fellow for Research in Zoology, continued his investigation of variation and correlation in the honey-bee (*Apis mellifera*, L.). This investigation

gation was begun in co operation with Dr. D. B. Casteel during the summer of 1903, and a brief statement of results was published in the Biological Bulletin, Vol. VI. pp. 18-37. As many new questions had been suggested, the work was again taken up during the summer of 1904, and was continued throughout the following year. The results are now practically ready for publication. The questions considered were: (1) Influence of the size of the cells on variation; (2) Comparative variability of sexes as influenced by parthenogenesis; (3) Variation in color; (4) Correlations in different planes of symmetry; (5) Correlation of adjacent veins; (6) Significance of correlation; (7) Abnormalities of venation. The standard methods of statistical work were used in all cases and the results expressed in mathematical terms. Dr. Phillips also acted during the year as Assistant to Professor Conklin in his course in Histology and Embryology. He was reappointed for 1905-1906, but resigned toward the close of the year to accept the responsible position of Expert in Agriculture in the Bureau of Agriculture at Washington.

Frank Julian Warne, Ph. D., University Fellow for Research in Economics, was engaged during the year upon a volume entitled "The Coal Mine Workers," a study of labor organization and a companion volume to his study on immigration, "The Slav Invasion and the Mine Workers," already published. The present volume has just been issued [1905] by Messrs. Longmans, Greene, and Company. During the year, Dr. Warne published the following articles:

"Some Industrial Effects of Slav Immigration," Charities, December 3, 1904.

"Railway Distribution of Immigrants," Railway World, December 10, 1904.

"The Miners' Union: Its Business Management," Annals of the American Academy of Political and Social Science, January, 1905.

"Labor Conditions in the Anthracite Region" (three articles), *Public Ledger* (Philadelphia), August 10, 11, 12, 1905.

John Louis Haney, Ph. D., University Fellow for Research in English, made during the year extensive additions to his stores of material for a new edition of his "Bibliography of Coleridge," in pursuit of which he has conducted correspondence with collectors and students of Coleridge in this country and abroad. The results of a study of the literary history of the University of Oxford were presented in a lecture entitled "The Literary Associations of Oxford University," delivered at the Central High School, April 7, 1905, and elsewhere. Dr. Haney also began a variorum edition of Coleridge's "Christabel," which he will continue so soon as he obtains access to certain rare editions which he has not been

able to find in this country.

Isaac Husik, Ph. D., University Fellow for Research in Philosophy, continued his studies in the logic of Aristotle. In this connection he has written a paper, which awaits publication, entitled "Aristotle on the Law of Contradiction," in which he argues for an empirical interpretation of the Law of Contradiction, and discusses the meaning of a passage in the Posterior Analytics of Aristotle which Waitz and other writers on the subject (which the exception of Maier) misunderstood. In addition, Dr. Husik undertook, at the suggestion of Professor Newbold, a study of the history of Medieval Philosophy, with the object of sometime giving a course in the subject, which is one neglected in American institutions. It may also be mentioned that Dr. Husik's thesis on Messer Leon's Commentary, re-written and somewhat enlarged since presentation for the Doctorate in 1903, is printing with Brill in Leyden, and will appear about December. The section of the work dealing with the sources of Messer Leon's commentary, particularly the portion treating Messer Leon's indebtedness to Walter Burleigh, has been entirely re-written on the basis of an examination of Burleigh's "Super Veterem Expositio," a copy of which was loaned Dr. Husik by the kindness of Yale University.

Three University Fellowships for Research without stipend were created by the Board of Trustees and awarded to candidates in Economics, English and Philosophy. The reports of the candidates appear in substance above.

A special University Fellowship in History for 1904-1905 in the sum of \$225.00 endowed by private and anonymous gift, was awarded by the Board of Trustees to Miss Elizabeth Girdler Evans of Dayton, Ohio.

In his report for the year 1903-1904, Professor Newbold, Dean of this Department, referred to the modifications of the regulations governing the award of Fellowships and Scholarships on the George Leib Harrison Foundation which were submitted to the Board of Trustees on November 3, 1903, and The Harrison "Senior" Fellowships had, then approved. until the modifications went into effect, been restricted to candidates holding the Doctorate of this University, and the Harrison Scholarships to its baccalaureates. These restrictions were removed. Further, the Harrison Fellowships, fourteen in number, created in 1896, which had been permanently assigned to given subjects, were made Fellowships at Large. assignable to any subject, similar to the five Fellowships at Large created in 1897. The purpose of these modifications, as Professor Newbold notes, was to make the competition on which awards are based more free, both by enabling a larger number of candidates to apply and by removing a limitation as a result of which, in the case of a majority of Fellowships, the merits of candidates were compared only with the merits of other candidates in a particular subject.

These modifications have been justified by their results. The responsibility of the Executive Committee in making its recommendations of candidates and its difficulty in performing its task promptly and equitably have been both increased and diminished, but in both cases in ways productive of good. They have been increased because of the increase in the number of candidates and the necessity of comparing the merits of candidates in different subjects. This leads to a still closer scrutiny of candidates and may lead to a demand for

fuller and more explicit evidence in regard to their claims. In the light of the statement which is in preparation of the scholarly records of holders of Fellowships and Scholarships in the past, there can be no doubt of their high average quality. creased scope of selection, however, and the increased pressure upon the several Departments to encourage the application of candidates able to emerge successfully from this more severe competition conduces directly to a still higher average. the other hand the task of the Committee has been lightened because of the increased promptness with which awards may be made. If Departments have a prescriptive right to Fellowships, recommendations of candidates to the Committee may be deferred or delayed at pleasure, even to a point where the Committee may have to take a less deliberate and formal action than is consistent with their duty of controlling the decisions of the Group Committees. It need hardly be added, also, that promptness in making awards exacts promptness from applying candidates and is due in justice to candidates who have filed their applications at the date set by the regulations. Finally also the removal of the restriction rendering graduates of this University alone eligible, one incidental to the experimental stage of the history of the Foundation, tends to bring the system of awards more truly into accord with the generous spirit that animated its endowment.

In brief, I express the unanimous opinion of the Executive Committee that, in the light of present experience at least, the value of the modifications in question has been amply demonstrated.

STUDENTS.

Degrees were conferred upon forty-one students, fifteen receiving the degree of M. A., twenty-six that of Ph. D. A table showing the number of degrees, conferred in the past years will be found appended to this Report, and also a list of the candidates who received degrees, their present occupa-

tion, and the titles of the theses submitted by those who attained the doctorate. Attention may properly be directed to the number of graduates who received appointments to responsible academic positions.

Absence on leave has hitherto been granted only to those students who had completed an acceptable number of courses for the Doctorate or who were pursuing their work temporarily at another university. On November 4, 1904, it was enacted by the Executive Committee that leave of absence for a term or part of a term should be granted to a student submitting adequate reasons for his proposed absence and affirming his intention to resume work the following term. action was approved by the Faculty at its stated meeting. The reasons submitted were convenience of record, retention of a hold upon students, to ensure their completion of their work, and partial correction of the statement of registration in the catalogue, which, though not representing the total for the year, is incorrectly quoted as representing it. No misrepresentation is involved; if students are prevented from returning their names are dropped in the Fasciculus and the number more than offset by additional matriculations at the mid-year. Of nine this year, two failed to return, a number substantially offset by fourteen matriculations at mid-year.

At its stated yearly meeting, the Faculty, acting in an advisory capacity, submitted to the Board of Trustees a resolution for the regulation of fees paid by students in other departments taking work in this Department, to the effect that such students, while paying full fees in their own Departments shall be allowed to take four courses (not yearly, but during their attendance) to be credited towards degrees without payment of tuition. This resolution was intended primarily to restrict the number of credited courses taken by undergraduates needing but few units to attain their baccalaureate degrees, but was framed to include students in the professional schools as well. In the latter relation it is not designed to encourage professional students in general to

pursue two courses simultaneously towards two degrees. This is wholly within the control of the Deans of the several Departments, as a student must obtain permission of his Dean to pursue work in another Department. It is designed only to encourage the exceptional student, who will unhesitatingly be given such permission, to profit to the full by the opportunities which the University affords, and to continue his relation with it as a student after taking his professional degree. By this arrangement a candidate for the Master's degree will have eight hours, and a candidate for the Doctorate will have twenty hours, to complete after leaving the professional school, if he take advantage only of the credits allowed him free.

The resolution in question was approved and enacted by the Board of Trustees at its meeting in October, 1905.

INSTRUCTION.

At its meeting in March, the Board of Trustees approved by resolution the creation of a group of courses open to the combined attendance of graduates and undergraduates for credit toward degrees in their respective Departments. The recommendation of this action by the Faculty at a special meeting held January 16, 1905, followed upon its approval by the Academic Council of the College and by the Executive Committee after its consideration by a joint conference of representative committees.

The courses in question form a group intermediate in character between those exclusively undergraduate and those exclusively graduate. They may include courses primarily undergraduate but of a grade which enables them to be credited as graduate courses, and courses primarily graduate, which qualified undergraduates may pursue to advantage.

The more important considerations which led to the creation of this group are as follows:

1. Duplication of courses in certain subjects is obviated. The proposed system permits simplification of the roster,

tends to conserve the energy of the teaching force, and renders possible its more effective distribution—is in brief, highly advantageous economically.

2. The arrangement of suitable courses for individual students is facilitated.

3. Progression from the B. A. to the M. A. degree is rendered more direct and logical.

4. Courses of this character had already been specially licensed in Biology and Psychology, and exceptionally authorized in special cases by the Executive Committee.

5. The admission of courses to this special status can be readily safeguarded.

6. The system has long been in use at other institutions, for example at Harvard, Yale, Columbia, Cornell, and Johns Hopkins.

In making its recommendation to the Board of Trustees, the Faculty of Philosophy called special attention to the fact that, as the courses in this Department are open to women as well as to men, the admission of women students to these courses was implied in the resolution. Their admission was, however, justified, as the non-coeducational character of the college would in no way be affected (Yale and Columbia may be cited in illustration), the courses would be of advanced character only, attended by a comparatively limited number of students, and our own experience of such courses, where exceptionally permitted, has confirmed that of other institutions where they exist, that, as regards this particular, no reason for objection offers itself.

The number of courses thrown open to the combined attendance of undergraduates and graduates will probably for some years remain relatively small, but in time some such systematic use of them will be made as is made elsewhere. It is certainly desirable that, where a subject permits it, an unbroken gradation should exist between courses primarily undergraduate and those primarily graduate: the line between the two has been too sharply drawn.

STATISTICS.

The statistical tables appended below call for brief comment. The facts concerning the registration for the year may be summarized as follows. The number of auditors, 16, was the same as for the previous year, and the number of students absent on leave, 19, was also the same. The number of regular students in residence, exclusive of Fellows for Research, namely 202 as against 179, shows an increase of 12.8%. The total number registered, 227 as against 207, shows an increase of 9.6%. The percentage of women students in regular standing was 15.1% as against 16.4% the previous year, and the total number of women students 19.8% as against 19.8% the previous year.

I. REGISTRATION.

NEW STUDENTS.		Students holding a		
	Research Fellows.	Baccalaureate Degree.	Auditors.	Total.
1904-05	1	87	13	IOI
1903-04	7	84	12	97
1902-03	2	78	10	90
1901-02	I	86	4	91
1900-01	I	55	8	64
1900-01				
OLD STUDENTS.				
1904-05	8	115	3	99
1903-04	11	95	4	110
1902-03	9	99	6	114
1901-02	8	78	. 14	100
1900-01	8	87	17	112
Totals.				
1904-05	9	202	16	227
1903-04	12	179	16	207
1902-03	II	177	16	204
	9	164	18	191
1901-02	9	142	25	176
1900-01				

The following table shows the number of women in the Department for the last ten academic years:

		u cu cu	1110	yea	TD.				
1895-96	1896-97	1897-98	1898-99	1899-00	10-00-01	1901-02	1902-03	1903-04	1904-05
13	13	18	21	32	27	2 T	27	24	26
17		18				32		-	36
_	_	_		12	,	4	0	7	9
30	27	36	32	44	36	35	43	41	45
12	12	14	16	23	18	18	20.9	19	15.1
18	. 15	22.5	20	25	20	18.5	21	19.8	19.8
28	17.5	30	46	33	36	22	37.5	43.1	56.3
	96-2681 13 17 -30 12	96-\$681 13 13 17 14 30 27 12 12 18 15	96-9681 13 13 18 17 14 18 30 27 36 12 12 14 18 15 22.5	96-5681 86 86 86 81 13 13 18 21 17 14 18 11 30 27 36 32 12 12 14 16 18 15 22.5 20	96-5681 88 21 32 13 13 18 21 32 17 14 18 11 12 30 27 36 32 44 12 12 14 16 23 18 15 22.5 20 25	13 13 18 21 32 27 17 14 18 11 12 9 30 27 36 32 44 36 12 12 14 16 23 18 18 15 22.5 20 25 20	96-5681 88 81 21 32 27 31 13 13 18 21 32 27 31 17 14 18 11 12 9 4 30 27 36 32 44 36 35 12 12 14 16 23 18 18 18 15 22.5 20 25 20 18.5	96-5681 88 21 32 27 31 37 17 14 18 11 12 9 4 6 30 27 36 32 44 36 35 43 12 12 14 16 23 18 18 20.9 18 15 22.5 20 25 20 18.5 21	13 13 18 21 32 27 31 37 34 17 14 18 11 12 9 4 6 7 30 27 36 32 44 36 35 43 41 12 12 14 16 23 18 18 20.9 19 18 15 22.5 20 25 20 18.5 21 19.8

II. INSTITUTIONS REPRESENTED.

	А. В.				В		5.			1	Ba	ac			I	M. De	as	te	er	s.	P	h.	. 1	D.		1	0	ric	cal ees
Allegheny College	2		-						-					-	-	-		-	-	-	-		-	-		_	_	-	-
Drown	2			• •		•	• •						:	٠.											1.				
Bryn Athyn	I					*	٠.						Ι			٠								٠.	1.				
Bucknell	100								-																1.				
Calvin College	4								-				I					2							1.				
Carlton	I																			. 1					1.				
Carlton							I		1																1				
Central University of Ken-									-									-				•					• •		
tucky	I	1																											
Chicago	1			346															7					500	1				
Colgate	I								1										٠.	1.									
College of City of New									1				٠,					Ι		1.									
York		1																											
Colorado	2	1	٠.					٠.	1.											1.									
Columbia		•					I		1									I		1.									
Columbia	3	1							1.								3	r		1									
Columbian University	I						I		1.									г						- 1					
Cornell	2	1	i	n	N	1:	tl	h	1					1															
Crozer Theological Semi-					-	-		•	1.		•				• •	•							•.		٠.				
nary		1																						1					
Dartmouth		1.		•					1.															.					1
Dickinson												1					1												
Drury	8	1.															I							- 10					
Drury	1	1.																											
Earlham												2		1										1					
Elmira College	I	1.																					-	1					
Franklin and Marshall	I							100				I		1.		• •								1.					

II.—Institutions Represented.—Continued.

	А. В.	B. S.	Other Bacca- laureate Degrees.	Master's Degrees.	Ph. D.	Theo- logical Degrees.
General Theological						
Seminary						I
Harvard	3			3	I	
Haverford	4	2		2		
Heidelberg	I			I		
Illinois	I					
Indiana	3			2		
Johns Hopkins	2				I	
Juniata	I					
Karls Gymnasium	Grad.					
Lafayette	2		2			
Lebanon Valley	I	I				
Lehigh		I				
Lycée de Montbeliard	Grad.					
Marietta	1					
Michigan	Card		I			
Moscow Imperial School						
Muhlenberg	I	I		1		
Nashville	-				I	
New York University		I				
Northwestern		2	I	2		
Oberlin			1			. 2
Pennsylvania		46	A STATE OF THE PARTY OF THE PAR		9	
Pennsylvania College						
Plon Gymnasium	Grad.					
Princeton				. 2		
Protestant Episcopal					1	
Seminary						. I
Radcliffe	1					
Reale Gymnasium,						
Switzerland						
Rutgers				. 1		
	0 1	I in Agr				
St. Andrew's, Scotland.	Grad.					
Swarthmore	. 6					
Temple College	. 7			THE PERSON NAMED IN		
Texas	Grad					
Tokyo University	I					
Ursinus	. 5		A CONTRACTOR OF THE PARTY OF TH			
Vassar				0.000		
Virginia						
Washington College	I					
Washington and Lee	. 1					
Washington State Uni						
versity	. I					
Washington University.				. I	100	
Wellesley						

II.—Institutions Represented.—Continued.

	A. B.	E	3.	s.		la	B	ac	er ca eat	e		Ma De	as	te	r'es	S	P	h.	I).		10	g	eo	
Wells	T					-				-	-		-			-				-	-	+	-		-
Weslevan	1			•					٠.																
Wesleyan							•									1.									
Wisconsin	1	 		*												1.									
Woman's College of				1	[3					3											
Baltimore	I	 						Can e								1.									
Yale		 																							

Total number of degrees
Repeated 284 73
Auditors
227

III. ELECTIONS OF REGULAR STUDENTS.

	189	5-96	189	6-97	189	7-98	189	8-99	189	9-00	190	0-01	190	1-02	190	2-03	190	3-04	190	4-05
	Maj.	Min.	Maj.	Min.	Maj.	Min.	Maj.	Min.	Maj.	Min.	Maj.	Min.	Maj.	Min.	Maj.	Min.	Maj.	Min.	Maj.	Min
Assyrian Hebrew Arabic and Syriac. Sanskrit Greek Latin Germanics English Literature English Philology. Philosophy Ethics Psychology Pedagogy American History American Constitutional History European History. Economics and Statistics Political Science. Sociology Mathematics Astronomy Physics Chemistry Geology Mineralogy Mineralogy Mineralogy Morans	11 8 1 5 4 6 12 	3 7 7 2 2 3 3 7 7 2 9 8 8 8 15 6 6 2 12 2 8 8 9 9 11 6 6 2 10 7 2 2	4 3 3 1 2 2 4 4 2 2 1 1 4 4 2 6 6 6 4 4 1 1 3 3 1 2 2	1 6 2 3 3 7 2 2 2 4 4 10 6 6 26 9 10 7 11 3 8 8 16 7 7 11 7 1 1 7 1 1 7 1 1 1 7 1 1 1 1	8 2 2 3 3 4 4 5 5 2 1 1 3 3 3 2 2 1 8 1 1 1 1 1 1	1 6 1 4 4 6 6 4 4 1 1 6 6 1 1 1 7 7 5 5 8 8 8 6 6 6 1 1 1 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 5 7 7 5 3 13 1 1 4 4 6 8 8 9 1 6 6 7 7 1 1 3 6 6 4 4 2 1 2 1 2 3 3	1 2 2 2 5 6 4 6 6 9 5 5 11 14 4 4 2 2 9 9 9 1 14 8 8 4 4 4 7 7 7 1 2 18 5 5 5 5 5 5 5	4 5 5 8 2 14 1 5 7 7 1 4 5 2 7 7 6 3 2 2 7 6 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 5 5 6 6 8 8 3 100 8 4 4 4 2 2 8 8 8 8 5 5 5 8 8 4 1 1 2 2 2 3 3 3 5 5	3 5 2 4 4 5 5 11 1 7 7 5 5 6 9 9 4 4 12 2 2 1 1 3	2 2 7 2 4 4 11 8 8 8 9 6 6 15 13 4 4 8 8 10 12 2 5 8 10 4 7 7 20 4 4 8 8	5 6 6 8 3 3 14 18 8 5 12 5 5 6 6 6 6 6 1 4 20 1 1 1 4	3 5 2 2 3 7 7 12 14 10 3 15 15 15 12 17 7 10 6 6 7 7 5 3 3 5 5 8	3 3 7 1 2 2 2 2 2 4 4	3 3 4 5 5 2 2 2 9 7 7 13 13 5 5 2 2 2 2 2 8 8 6 6 13 3 4 4 3 5 5 2 2 4 4 8	3 3 7 1 2 2 4 4 6 6 11 1 5 19 12 13 4 4 4 5 5 7 7 1 9 19 1 2 2 3 3 6 6	3 3 3 5 5 1 10 4 8 8 8 6 6 15 18 10 10 10 11 4 4 5 5 7 7 4 4 4 4 2 5 5 6 4	4 6 1 1 2 2 5 12 15 5 4 3 1 1 10 0 6 2 1 9 9 8 18 8 18 15 3 3 3 3 8 8	11 3 3 7 7 2 1 1 1 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3
Zoölogy	3	4	3	3 8	6	5 8	9	7	3 8 	5	8	9 68	7	4 113	6	4	6	153	8	13
Totals		194	91	182	94	188	120	240	122	244	142	284	164	328	173	346	177	354	215	38

Report of the Dean of Philosophy.

IV. DEGREES CONFERRED SINCE OPENING OF DEPARTMENT.

		PH.D.			M.A.			M.S.			
Year	Men	Women	Total	Men	Women	Total	Men	Women	Total	Total	
1889	I		I							ı	
1890	I		I							I	
1891	7		7	I		- I				8	
1892	4	I	5							5	
1893	13		13	2	2	4				13	
1894	9	3	12	3	2	5				17	
1895	14	2	16	I	I	2	I		I	19	
1896	16	2	18	6	4	IO	I		1	29	
1897	21	3	24	2		2				26	
1898	21	3	24	I	2	3	2		2	29	
1899	17	3	20	4		4	I		I	25	
1900	14	I	15	8	3	II	I			26	
1901	19	6	25		3	3				28	
1902	13	I	14	6	2	8				22	
1903	27	2	29	9	3	12			ı	42	
1904	15	3	18	5	5	10	I		I	29	
1905	24	2	26	11	4	15				41	

Attention may be directed to the percentage of graduates of other institutions enrolled in the Department, which remains notably large, namely 70.5%. This, however, may lead to the inquiry whether our own graduates are properly represented. What relation the number of our graduates bears to the total number undertaking graduate work here and elsewhere it is difficult to ascertain precisely, but it seems clear that practically all who undertake graduate work elsewhere do so in conjunction with theological courses, or because they hold academic positions or are on leave of absence; the number is in any case inconsiderable. But is the number

who do undertake work what it should be? On examining the registration of the graduate schools of seven leading institutions, the percentage of their own graduates taking graduate work, excluding those who take a second baccalaureate degree in addition to that of a minor institution, proves to be respectively 14, 19.7, 19.8, 33.5, 46.5, 50, 52.1%, as against 29.5% with us. That the percentages of four institutions exceed ours may not be so significant as it might seem. It may be due to the fact that the University offers no course in Divinity (the students in which would pursue courses in this Department in conjunction with their theological work), to different regulations as regards leave of absence or study in absentia, or to other reasons. Without attempting to analyze these in the percentages, which would be difficult or perhaps impossible, it may however be asked whether the members of the Faculty do all they might to urge the claims of graduate study upon capable students. Special effort on the part of one Department last year certainly produced marked results. No undue pressure should, of course, be brought to bear upon a student in advising him in regard to the choice of a career. But, in the case of students intending to teach, the desirability of graduate preparation, either at once upon graduating or in a year or two, not only may with propriety, but should necessarily, be urged in opposition to his natural eagerness to "get to work" or his wholly indefensible later disposition to be satisfied with his equipment and position, either of which may render his career less efficient than it might otherwise have been. Other students, moreover, who evince special capacity, may, quite irrespective of their taking a degree or becoming teachers or even productive scholars, be encouraged to pursue the subjects for which they display special fitness. no reason why a graduate school should be exclusively a finishing school for teachers.

I trust that, in conclusion, it may not be unfitting for me to express my indebtedness to Professor Newbold for his

unfailing kindness and courtesy in giving me of his counsel. His successor has, indeed, to thank him for more than this. In the administration of no student body do so many and varied individual problems present themselves as in a graduate school; in other Departments of a university the students are largely legislated for in the mass—here the individual problem is of paramount importance. This variety and complexity in the individual problems dealt with, while aiding in the perception of guiding principles, may readily exert an influence, if the apparent exigency of special cases be allowed undue weight, to break down or prejudicially to modify by exceptional precedents the laws and regulations which are the expression of those principles. In continuing the labors of their predecessors. Professor Newbold and the Executive Committees serving with him have made many and most important contributions to the definition of the principles and the formulation of the regulations now in force in the Department—practically completing the responsible task of furnishing it with an administrative and educational system and, further, have maintained them unwaveringly in their original integrity. This invaluable service, and this tradition as invaluable, may well receive express acknowledgment from their successors, who profit by them. I may also refer to the example set by Professor Newbold in respect to matters of record, completeness and accuracy in which depend in this Department to a very large degree upon the personal oversight of the executive officer. I sincerely desire to emulate. even though I may not equal, Professor Newbold's solicitude and scrupulous care in this regard.

The increase in the growth of the Department—more markedly noticeable in recent years—is due to its prudent governance in the past and the spirit which has animated its teaching force. The wise judgment which has characterized its adminstration, the continued maintenance of its strict rules controlling admission and of the stringency of its requirements for degrees, constant effort upon the part of the members of

its Faculty to uphold and to elevate its standards of scholar-ship in teaching and in private research—these ideal elements, tegether with the example afforded by its graduates and its exceptionally generous system of Fellowships and Scholarships, have been the effective factors. The conservation of these ideal elements alone will ensure permanence to our steady growth, our increased opportunities for usefulness.

Respectfully submitted,

CLARENCE G. CHILD,

Dean.

V. Higher Degrees Granted, Commencement Day, 1905.

MASTER OF ARTS.

William Radcliffe Anson, A. B. (Ursinus, 1903): Germanics and French.

Resumes graduate work.

Harold Charles Barker, B. S. (Pennsylvania, 1903): Physics. Instructor in Physics and resumes graduate work.

Arthur Cleveland, A. B. (Pennsylvania, 1904): English and Latin.

Resumes graduate work.

Frank Levis Cloud, A. B. (Pennsylvania, 1904): Greek, Latin and Sanskrit.

Resumes graduate work.

Minnie Gertrude Eckels, Ph. B. (Bucknell, 1901): English and Germanics.

Shippensburg, Pa.

Ferdinand Harry Graser, B. S. (Pennsylvania, 1903): Economics.

Resumes graduate work.

Samuel B Heckman, Ph. B., A. B. (Earlham, 1893 : Harvard, 1894) : Germanics, Romanics, Pedagogy.

Absent on leave, 1905-1906.

1260 N. Park Ave.

Wesley Lynn Hemphill, A. B. (Pennsylvania, 1904): Classics, English.

Student, Princeton Theological Seminary, Princeton, N. J.,

Clinton Nevius Laird, A. B. (Pennsylvania, 1903): Chemistry, Mineralogy.

Teacher in Canton Christian College, Honglok, Canton, China.

Grace Edith MacLean, A. B. (Temple College, 1903): Romanics, English, Germanics.

Resumes graduate work.

Lillian Pace, B. S., M. A. (Columbian University, 1897, 1898): Physics, Mathematics.

Instructor in Mathematics, Central High School, Washington, D. C.

Leonard Adolph Peck, B. A. (Yale, 1900): English, Germanics.

Instructor in English, Episcopal Academy and resumes graduate work.

Henry Baruch Sachs, B. S. (Pennsylvania, 1900): Germanics.
Absent on leave 1905-1906.
921 North 6th Street.

Ruth Elma White, A. B. (Dickinson, 1904): English, Germanics.

Teacher of English, Trenton High School, Trenton, N. J. Winton John White, A. B. (Pennsylvania, 1904): Pedagogy, Classics.

Resumes graduate work.

DOCTOR OF PHILOSOPHY.

Clarence William Balke, A. B. (Oberlin, 1902): Chemistry. Thesis: Double Fluorides of Tantalum.

Harrison Fellow for Research in Chemistry.

Matthew Hume Bedford, A. B. (Central University of Kentucky, 1903): Chemistry.

Thesis: Columbates.

Instructor in Chemistry, University of Maine.

Charles Frederic Brede, A. B., A. M. (Haverford, 1880, 1893): Germanics.

Thesis: The German Drama on the Philadelphia Stage. Instructor in Northeast Manual Training School, Philadelphia.

Kent James Brown, A. B. (Dickinson, 1901): Germanics. Thesis: The Strong Verb in Fischart.

Master in German in Carteret Academy, Orange, N. J.

John Linton Carver, B. S., A. M. (Swarthmore, 1893; Pennsylvania, 1903): English, Pedagogy.

Thesis: The Valiant Scot, by J. W. Gent.

Head of English Department, Friends' School, 15th and Race Streets.

Edward Samuel Corwin, Ph. B. (Michigan, 1900): History, Political Science.

Thesis: The Attitude of France towards her Alliance with the United States in the American Revolution.

Preceptor in History and Political Science in Princeton University.

Alice Lenore Davison, A. B. (Elmira College, 1902): Chemistry.

Thesis: The Electrolytic Determination of Cadmium with the use of a Rotating Anode.

Professor of Physics and Chemistry, College for Women, Columbia, South Carolina.

James Walker Downer, A. B., A. M. (University of Virginia, 1895, 1897): Latin.

Thesis: Figurative Language in the Satiræ Petronius. University Fellow for Research in Latin.

Acting Professor of Latin, Friends' Central School, 15th and Race Streets.

Henry Fox, B. S., A. M. (Pennsylvania, 1899, 1903): Zoölogy, Botany, Chemistry.

Thesis: The Pharyngeal Pouches and their Derivatives, in the Mammalia.

Professor of Science, Temple College.

Robert Harvey Gault, A. B. (Cornell, 1902); Psychology, Neurology, Philosophy.

Thesis: On Conditions Affecting the Maximal Rate of Voluntary Extensor and Flexor Movements of the Right Arm.

Professor of Psychology and Pedagogy, Washington College, Charleston, Md.

Oliver Edmunds Glenn, A. B., A. M. (Indiana, 1902, 1903): Mathematics.

Thesis: The Determination of the Abstract Groups of Order, p2, qr, p, q and r being distinct primes.

Professor of Mathematics, Drury College, Springfield, Mo. Julius Hillel Greenstone, A. B. (Pennsylvania, 1902): Hebrew, Arabic, Philosophy.

Thesis; The Turkoman Defeat at Cairo.

Instructor in Jewish Education, Gratz College, Philadelphia.

Ulysses Sherman Hanna, A. B., A. M. (Indiana, 1895, 1898): Mathematics.

Thesis: The Bitangentials of the Plane Quintic and Plane Sextic.

Assisting Professor of Mathematics, University of Indiana, Bloomington, Indiana.

Ernest Godfrey Hoffsten, B. S. (Pennsylvania, 1901); English, Germanics.

Thesis: The Floating Island, by William Strode, of Oxford, written in 1636, and now for the first time reprinted with introduction and notes from the quarto of 1653 in the possession of the University of Pennsylvania.

Instructor in English, McKinley High School, St. Louis, Mo. Robert Harbison Hough, A. B., B. S., M. A. (University of Nashville, 1890, 1892): Physics, Mathematics, Chemistry.

Thesis: On the Mechanical Equivalent of the Heat of Evaporation of Water.

Instructor in Physics, University of Pennsylvania.

Solomon Huebner, B. L., M. L. (Wisconsin, 1902, 1903): Economics.

Thesis: The Business of Marine Insurance with Especial Reference to the United States.

Instructor in Commerce and Insurance.

Charles Moore Magee, A. B., A. M. (Pennsylvania, 1895, 1904): English.

Thesis: The Epigrammatic Art in English Literature of the Classical School of the Seventeenth and Eighteenth Centuries.

6 First Ave., Conshohocken, Pa.

Alice Madeline McKelden, A. B., M. A. (Columbian University, 1899; Pennsylvania, 1900).: Mathematics and Physics.

Thesis: Groups of Order 2m, that contain Cyclic Subgroups of orders 2^{m-1} 2^{m-2} 2^{m-3}

Instructor in Mathematics, Girls' High School, Philadelphia.

Thomas Warner Mitchell, A. B. (University of Washington, (state) 1900): Economics.

Thesis: Stockholders' Profits from Privileged Subscriptions.

Secretary of the School of Commerce, Accounts and Finance of the University of the City of New York.

Richard Heinrich Herman Christian Carl Ludwig Reithmüller, Graduate of Karlsgymnasium, Heilbronn A. N.; Theologisches Seminar, Maulbronn und Blaubeuren: Germanics.

Thesis: Johan U. L. Gleim's Imitations of the M. H. G. Minnesong.

Harrison Fellow for Research in Germanics.

Burnett Smith, B. S. (Pennsylvania, 1900): Geology, Mineralogy, Zoölogy.

Thesis: Senility among Gastropods.

Harrison Fellow for Research in Geology.

Ralph Ogden Smith, B. S., A. M. (Rutgers, 1902; Pennsylvania, 1903): Chemistry.

Thesis: The Rapid Precipitation of Lead and Mercury in the Electrolytic Way.

Instructor in Chemistry, University of Wisconsin, Madison, Wisconsin.

Charles Wharton Stork, A. B., A. M. (Haverford, 1902; Harvard, 1903): English.

Thesis: All's lost by Lust, a tragedy by William Rowley, edited with an introduction and notes from the quarto of 1633 in the Library of the University of Pennsylvania.

University Fellow for Research at Oxford, England.

Clarence Stratton, B. S. (Pennsylvania, 1901): English, Romanics.

Thesis: The Unnatural Combat, a tragedy by Philip Massinger, reprinted with notes and introduction, from the quarto of 1639 in the Library of the University of Pennsylvania.

Instructor in English, Central High School, St. Louis, Missouri.

Samuel Edwin Weber, Ph.B. (Lafayette, 1901): Pedagogy, Psychology, Philosophy.

Thesis: The Charity School Movement in Colonial Pennsylvania.

Professor of Education and Psychology in the Cortland State Normal School, Cortland, N. Y.

James Renwick Withrow, B. S. (Pennsylvania, 1899): Chemistry.

Thesis: The Electrolytic Precipitation of Gold with the Use of a Rotating Anode and the Rapid Analysis of Halides.

Assistant Instructor in Chemistry, University of Illinois, Urbana, Ill.

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 31st, 1905.

REGISTRATION OF STUDENTS.

The number of students as compared with the number of students during the scholastic year 1903-04 is as follows:

First year Second year Third year Specials.	83	First year Second year Third year Specials Partials.	133 81 68
Partials	13		6
	322		202
4			303

As indicated, though the incoming class was larger than during the previous year, there was a decrease in the total number of students in the Department. This decrease was due to the size of the graduating class in June, 1904, this class being the last class entering prior to the present regulations for the study of Law in Pennsylvania. The effect of these regulations I have referred to in my report for the scholastic year 1903-4.

CHANGES IN THE TEACHING FORCE.

At the July meeting of the corporation Mr. Thomas Raeburn White, Assistant Professor of Law, presented his resignation. Mr. White has been connected with the Department, since his graduation in 1899, as Fellow, Instructor, Lecturer, and during the past year as Assistant Professor. He is a

teacher of ability and the members of the Faculty learn of his withdrawal,—which is due to the increased pressure of his private business—with regret.

MATTERS PERTAINING TO THE COURSE.

The new courses given last year were a course in Torts, supplementing Judge Dallas's work of the first year class, one hour per week, by Assistant Professor Bohlen, and a course in Torts two hours per week, to the second year class, which was also given by Professor Bohlen. The number of regular electives in the third year was not increased, but in addition to the voluntary courses heretofore given in Conveyancing and in Bankruptcy, a voluntary course in Admiralty was given by Mr. John F. Lewis. Mr. Lewis's lectures were most successful and it is hoped that an arrangement can be made to continue these lectures on alternate years. Mr. Russell Duane, to the great satisfaction of the Faculty, again dealt in a series of six lectures with the subject of preparation for trial.

One of the most significant addresses of the year was that delivered by Mr. Frank Pritchard of the Class of 1874 on "Legal Ethics." The address had a distinct educational effect, and the Department has requested Mr. Pritchard to put it into permanent shape so that the same may be used hereafter as a part of the reading recommended to the members of the graduating class.

The annual address was delivered by Mr. David T. Watson, of Pittsburg, on March 31st. Mr. Watson chose as his subject, "Practical Suggestions." The occasion was made significant by the attendance of several hundred members of the alumni and local Bar and by the consequent success of the reception of the Society of the Alumni of the Department of Law, held immediately after the address, in the main hall of the Law School Building.

Besides the voluntary courses and public lectures mentioned, the University invited Mr. Henry Flanders to deliver a number of discourses on "Legal Biography." The subjects selected by Mr. Flanders were certain members of the Supreme Court of the United States; namely, "Justice Wilson, Justice Washington, Justice Patterson, Chief Justice Taney, Chief Justice Ellsworth, Justice Iresdell, Chief Justice Marshall, Chief Justice Story, and Chief Justice Jay.

The lectures were an unqualified success, and many of our students will, I believe, as a result, carry through life an interest in the personality of the great men of the past of our profession, from which interest they will derive both pleasure and profit. The Faculty have heard with satisfaction that the Trustees have arranged for the continuation of the lectures during the coming year.

At the meeting of the Faculty held in March, a number of changes were made in the regular course, to take effect during the coming scholastic year. The course in Blackstone to the first year class was abolished. This action on the part of the Faculty does not reflect the belief that a knowledge of Blackstone is unimportant. Experience, however, teaches us that a course based upon a text book is not worth the time consumed in class. If the text book is part of the necessary knowledge of the student he should be made to pass an examination therein, but the class room hours should be devoted to work which cannot be done outside. The Faculty believe that every student should have a knowledge of Blackstone, and while abolishing the course, have retained the examination. In the future, therefore, as in the past, no student will graduate from the University without first passing an examination in that subject.

By an action of the Faculty taken some two years ago, the number of hours per week in the third year class was increased from twelve to fourteen. This added one subject to each man's course. Experience seems to have proved that this addition was unfortunate and that a student obtains more from his year if he confines himself to a few subjects, but spends a sufficient time on each to insure complete mastery. A certain amount of information is indispensable to the successful practice of any profession, but beyond a point which is soon reached, the important thing for the professional student is to obtain a thorough grasp of fundamental subjects. This he cannot do if he is required to take in any one year a large number of subjects or fill his mind with information which he has no time to assimilate.

At the same meeting of the Faculty it was determined to add to our electives a course in Suretyship. Assistant Professor Hening will have charge of this course. The course in the Statute Law of the State of Pennsylvania was enlarged so as to make it a course in Pennsylvania Law. As modified, the course will be a voluntary one; that is, not a regular elective. The new course is designed to meet the needs of those who expect on graduation to present themselves to the State Board of Law Examiners of Pennsylvania for examination for admission to the Bar.

BIDDLE MEMORIAL LIBRARY

The accession number on August 31st, 1904, was 31,480; the accession number to-day is 33,311 or an increase of 1831. This increase is divided as follows:

Text books				 													664
Reports																	688
Statutes																	123
Digests																	65
Encyclopedia																	22
Periodicals																	185
Ordinances																	8
Bar Association	Repo	rts				. ,		. ,									7
Public Documen	its												 				28
Dictionaries								. ,					 			٠	13
Trials													 				28
Total																	183

On account of the character of the books bought this increase is not as large as during the previous year. The features of the year in the way of accessions were the South African Colonial Reports; a number of old English text books, and a fine set of French Arrets combining the reports of all the principal courts in France. These were all purchased through the Alumni Fund; the Biddle Fund or annual income, owing to the repayment of the debt due to the corporation for advances, being only sufficient to cover the continuations and the new American text books.

152,558 volumes were taken out by undergraduates in Sharswood and McKean Halls. This number is not quite so large as during the preceding year. The decrease is probably due to the fact that last year the professors in two subjects published case books. The use of McMurtrie Hall for graduate study, steadily increases. A part of the year all of the desks were assigned. No record is kept of the exact number of books given out in McMurtrie Hall but the Librarian believes that during the winter the number exceeds an average of 300 books a day.

There has been an increased use of the Library by students registered in the College Department. Several professors connected with the Wharton School of Finance and Commerce use the Library constantly. As a valuable light is thrown on the History of English speaking peoples by the Law Reports and other works on the sources of the law, there is every reason to suppose that the use of our Library by the professors and students of the College will continue to steadily increase.

PRIOR EDUCATION OF STUDENTS.

The following is a tabulated statement of the education of the First Year Class prior to entering the Department:

Candidates who held college degrees	45
Candidates who had been members of the Junior Class in a	2
college of standing	-
in a college of standing	9
Candidates who had been members of a Freshman Class in	
a college of standing	15
Candidates who were graduates of high or normal schools	39
Candidates who had passed examinations in subjects not	
covered by a diploma from high or normal schools	4
Candidates who passed the entrance examinations	9
Candidates who entered on the certificate of the Pennsylvania	
State Board of Law Examiners	15
	138

GEOGRAPHICAL DISTRIBUTION OF STUDENTS.

The states represented in the Department were as follows:

Delaware	4	Massachusetts	3
District of Columbia	5	New Jersey	27
Georgia	I	New York	2
Illinois	2	North Carolina	I
Iowa	2	Ohio	I
Kansas	I	Pennsylvania	255
Kentucky	I	Vermont	I
Maryland		Foreign Countries	3

SUMMARY.

New England States	4	Pennsylvania including	
New England States	4		
Middle States	33	Phila	255
Western States	6	Foreign	3
Southern States	II		

AGE OF STUDENTS.

The average of the entering class was slightly higher than that of the previous year, being twenty-one and six months as compared with twenty-one and two months for 1903-04.

RESULTS OF EXAMINATIONS IN COURSE.

Of the 256 regular students taking the June examinations, 39 or 15 per cent. plus, failed to pass a sufficient number of examinations to obtain higher standing; or in the case of third year students, to graduate. Of these 39, 20 were members of the first year class, 13 of the second year class, and 6 of the third. The figures are above those of the previous year, when 10 per cent. plus of all who took the examinations failed. The average examination mark given last year was 74.4; during the previous year 75.5.

SCHOLARSHIPS.

There were eight holders of Faculty Scholarships, seven holders of City Scholarships and one holder of a Muir Scholarship, registered in the Department. All these scholarships carry full tuition. The total assistance given amounted to \$2,560.

PUBLICATIONS OF THE DEPARTMENT.

During the past year, besides the legal works produced by the members of the teaching force, there have been published under the auspices of the Department, three monographs: one by Mr. Morris Wolf on "Suggestions as to the Nature and Extent of Liability of Telegraph Companies for Failure to Properly Deliver Messages;" another by Mr. Henry Sandwith Drinker, Jr., on "The Use of the Phrase Res Gestæ in the Law of Evidence in Pennsylvania;" and a third by Mr. Horace Stern, on "The Limitations of the Power of a State under a Reserved Right to Amend or Repeal Charters of Incorporation."

It is believed each of these monographs constitutes a distinct contribution to the law. They have been widely read by members of the legal profession.

THE PHYSICAL HEALTH OF THE STUDENT BODY.

The physical health of the student body has given the Faculty concern. The course in law is one of difficulty. The examinations, coming of necessity at the end of the year's work, are apt to be given under trying weather conditions, and thus the strain inevitably accompanying the taking of examinations in a professional school is increased. We do not believe that our course is too hard for men who come to us well prepared, and devote their time, systematically and regularly, to the prescribed work. But we do believe that our course is too difficult to be taken by the student who is not, in the fall of the year, in good physical condition, or, who being in good physical condition in the fall, does not take intelligent pains to remain so throughout the scholastic year. While observation seems to show that the majority of men who come to us leave us better physically for the regular and systematic work of the school, we have each year a number of men who are either obliged to abandon the course or who pursue it only by an undue strain on their physical powers. There are many causes beyond the control of the University which account for some of the physical breakdowns. One cause, however, is the lack of good healthy exercise. Franklin Field, being occupied very largely during the spring and fall by those students who are either on University teams, or trying for such teams, affords outside of its running track only a limited opportunity for men in the Law School to secure exercise. In view of the severe competition for places on any university team, and also in view of the severe rivalry between universities in athletic contests, and the publicity attendant on such contests, it is practically impossible, except in rare cases, for a man to pass through the Law School, do justice to his work and to his own future as a professional man, and take the time and mental energy necessary to become and remain a

member of any of our athletic teams. As a consequence only a small fraction of our students can obtain the physical exercise which is essential to their well being by taking part in University athletics. The new gymnasium building will, I believe, do much to remedy this situation. It affords an opportunity, which every student may embrace without undue loss of time, for some daily exercise. Indoor exercise, however, and especially exercise which does not involve the playing of a game, and the mental relaxation accompanying that fact, has of necessity its limitations. For students in professional schools, the great majority of whom have neither the time nor the desire to engage in the strenuous athletic contests of their more leisurely college days, what is needed is the opportunity to engage for a short period two or three times a week in the playing of some game, such as association football, tennis, etc., where the element of play and the desire to win and the interest excited thereby exists, but where there is an entire absence of strain and of that special preparation which is, of necessity, connected with inter-university contests. Now that we have our splendid Gymnasium no greater benefit could be conferred upon the professional student by the University, as I observe such student in the Law School, than the existence in the immediate neighborhood of the University of one large or several small fields where the students who do not wish to engage in University athletics could feel that they could play one or other of the games which I have mentioned, or others of like character.

Respectfully submitted,

WM. DRAPER LEWIS,

Dean.

APPENDIX V.

REPORT OF THE DEAN OF THE FACULTY OF MEDICINE.

To the Provost of the University:

SIR: In submitting to you the report of the Department of Medicine for the academic year 1904-1905, permit me to call your attention first to the number of matriculates in the first year class. This class numbers 176, as compared with 140 in the class preceding, a gain of 20%. This in itself is very gratifying but it seems to me all the more so when taken into consideration with the fact that the records of other medical schools would seem to show that there has been either a decrease, no increase at all, or but a slight increase in the number of matriculates. The record of this School is therefore unique. Not only is this so of the condition in the fall of 1904, but sufficient statistics are at hand at this writing to show that this will be more conspicuously true of the class matriculating in 1905. We are confronted therefore with two conditions, the general falling off in the number of young men entering the medical profession and the exceptional experience of the Medical Department of this University-conditions which call for an explanation. The decrease in attendance cannot be explained by increased entrance requirements alone. This unquestionably accounts for the decrease that is always experienced when the higher requirements are inaugurated for the first time. But what of those schools where the higher standards for admission have been required for a number of years? No one will contradict the statement that the medical profession is over crowded and that the prospects of earning a decent livelihood are not as bright as they once were. At the present rate there will have graduated from the Medical Schools of the United States, 50,000 physicians in the first eight years of this century. From 1882 to 1902 there was an increase in the number of matriculates in Medical Schools of about 100%. Based upon the proportion at the present time of one physician to 6000 population, there would be needed with the natural increase of population and the deaths in the ranks of the profession, an increase of 3000 physicians each year. In 1902 there were approximately 5000 graduates of Medical Schools thus leaving a surplus of 2000 physicians over and above that required to meet the demands. These statistics are quoted simply to show the over-crowded state of the profession and the increasing difficulties of its members to obtain a livelihood.

In Germany, for example, and in France, too, where the number of physicians proportionate to the population, is smaller than it is in this country, there is reported a decided diminution in the total number of medical students. It is believed by some that other professions, particularly the engineering profession, are attracting a larger number of young men at the present time.

To explain the increase in the number of matriculates at the University a number of factors must be taken into consideration. The completion and equipment of the New Medical Laboratories have been most influential factors. The increase in the facilities of laboratory instruction thus offered, together with the elaboration of a more comprehensive course in the clinical subjects have doubtless influenced a certain number of students in the selection of a medical school. The clinical material at our disposal is used to better advantage now than it ever has been in the past. But besides these educational advantages much of the increased popularity of the University is doubtless due to the constant efforts which are being made to make the student's life happier and to consider his welfare and advantage in every detail.

Many changes have been made in the curriculum, most of them consisting in expansion of the various courses. At the present time, however, every possible hour, within the limitations of the student's capacity, has been utilized and no radical changes will be rendered possible until a fifth year has been added to the curriculum. It is only a question of time, however, and that not very far distant when this radical step must be taken, since under the present conditions the student's time is so occupied with the regularly scheduled work and exercises, that he has scarcely any opportunity to review and digest the facts he has learned or to broaden his mind with collateral reading. When the day's work is done the average student has reached the limit of his capacity for any work which taxes his mental faculties and requires concentration of thought. This must be recognized as an unfortunate state of affairs, from which under the present régime there is no escape.

The teaching of medicine is daily becoming more and more complicated and the very nature of the advances, which have been made in the field of medicine, makes greater demands upon the student's intelligence, upon his knowledge of certain fundamental subjects, and upon his ability to appreciate the value of and to apply the scientific facts which he has obtained in the laboratory to the practical aspects of clinical medicine. It has well been said that "Modern Medicine consists of those facts, gathered from the various sciences, that are capable of utilization in either the prevention or cure of disease. All the physical sciences, at least the fundamental ones, have made and are still making contributions to medical knowledge and medicine can advance no faster than the sciences on which it is founded."

In order that the student may fully understand the subjects of the medical curriculum, as they are taught to-day, his preliminary education should include studies which are strictly speaking preparatory to his course in medicine. As

matters now stand a student may enter the Department without any preparation whatsoever leading up to his entrance upon the study of medicine. Looking at the matter solely from the standpoint of the student's best interests it is not fair that he should be allowed to undertake a course for the proper understanding of which he is unprepared. It is unreasonable to expect him to comprehend, for example, Ehrlich's side-chain theory or to understand the assimilation and utilization of food products in the human body if the individual has not had already a thorough course in the fundamental facts and theories of general medicine. It is unfair to expect him to understand the microscope, laryngoscope, X-rays, the mechanical principles involved in the causation and treatment of fractures and dislocations and in the production and correction of deformities, unless he is thoroughly familiar with the principles of physics. It will not be possible for him to keep in touch with the advances in medical science unless he has a reading knowledge of German and French.

I therefore recommend, Mr. Provost, for your serious consideration the question of increasing the requirements for admission to this department. It has always seemed to me improbable that the time will ever come when the degree of Bachelor of Arts or Science will be required for admission to all the high grade medical schools of the country. While it is more than desirable that the physician should be a man of culture, it does not follow that because an individual has pursued a course leading to the degree of Bachelor of Arts, he has received special preparation for the study of medicine. What should be required of a student seeking admission to a medical school is not a certain specified number of years of preliminary education, but a knowledge of certain specified subjects, subjects which will fit him for the course he is about to pursue. It is not necessary to discuss these in detail, but they may be said to include physics, chemistry, botany, zoölogy, comparative anatomy, and a reading knowledge of French and German. Such a preparation would be equivalent to that which

is required for admission to the Graduate Departments of the German Universities. The subject which above all others is engaging the minds of those interested in medical education is this question of entrance requirements. From one end of the country to the other the best element of the profession is exerting its influence through the State Boards of Medical Examiners and through other channels, in favor of higher standards, and each year we find more institutions added to the number of those which require more than a high school education. The Council on Medical Education of the American Medical Association presented a report upon the minimum requirements for admission to Medical Schools. The report was accepted and, if adopted by the State Boards of Medical Examiners, will require of each applicant on and after January 1, 1908, that he shall have had a five-year medical course, the first year to be devoted to physics, chemistry, and biology and such arrangements should be made that this year could be spent either in a school of liberal arts or in the medical school. Reference is made to this report simply to show the views that are prevailing throughout the medical profession. I am quite sure that the reputation of this department suffers to a very considerable degree from the fact that its requirements for admission have not been advanced commensurately with the advances that have been made in the medical sciences. This is unfortunate since in other respects, in its equipment, in the arrangement of its curriculum, and in its method of instruction, the department is held in high esteem.

Recognizing the desirability of increasing the number of matriculates who have had a college education, I would propose the incorporation of a plan whereby students from those literary colleges equipped to give thorough courses of instruction in bacteriology, chemistry, histology, and biology, be admitted to our second year class. The Dean of the Medical Department of the University of Chicago, in a recent letter to me, in speaking of the question of admission to advanced standing for work done in literary or scientific colleges, says

that " in many respects this is one of the most important questions which now present themselves to the Medical Colleges." These students would have received instruction in all the subjects covered in the first year of the medical curriculum with the single exception of human anatomy. In order that the student receive adequate instruction in this subject to make him eligible for admission to advanced standing, a systematic course of instruction in human anatomy might be included among those given in the Summer School. By such an arrangement we could offer students of literary colleges, not affiliated with a University, the same advantages offered the students in attendance at our own College Department, namely, two degrees in seven instead of eight years. Such a plan would, I believe, attract a number of students, who, having entered a literary college and planning eventually to study medicine, would be glad of the opportunity to save one year in the acquirement of their degrees. I propose this plan at this time because both in actual number and in percentage there are fewer students holding college degrees in the present first year class than in the class immediately preceding. There is also a slight decrease in the total number of students who have spent one or more years in a literary college.

One of the most important functions of a University is the fostering of research. There is no phase of medicine which does not offer an attractive field for original investigation; it is as true of the subjects touching upon clinical medicine, as of those dealing with the pure sciences. The opportunities of the practicing physician engaging in research are necessarily somewhat limited, owing to the demands made upon his time. The time of those engaged in the instruction of the pure sciences is free excepting at those hours set apart for lectures or demonstrations. Thus the fewer the number of hours of instruction the greater the number available for research. The members of our laboratory staff are I believe handicapped in this respect by the number of hours which

they must devote to student instruction and it would be well if some means could be adopted whereby they could have more time to engage in investigation. The present objectionable state of affairs might be alleviated to some extent, at least, if the Departments of Dentistry and Veterinary Medicine would provide as many demonstrators as may be necessary to conduct those courses of instruction given under the auspices of the Medical Department, namely, the courses in chemistry, anatomy, bacteriology, physiology and pathology. It is quite proper that the courses of instruction in these respective subjects should be open for all students of the University irrespective of department, but if this plan is continued, the staff should be increased. At present the staffs are no larger than is necessary to meet the demands of a department of Medicine. I respectfully propose therefore that the addition to these staffs be made sufficient to meet the burden imposed upon this department by those of Dentistry and Veterinary Medicine.

We regret to have lost by resignation from our teaching staff, Dr. Adolph W. Miller, first a Demonstrator and later an Assistant Professor of Materia Medica, and Dr. Robert W. Formad of the Histological Department, both of whom, for the past twenty and eighteen years respectively, have rendered the University most faithful and efficient services. We record also with regret the resignation of Dr. John M. Swan, who for the past ten years has been associated with the Department of Anatomy, first as Assistant Demonstrator of Anatomy and later as Demonstrator of Osteology, and of Dr. Arthur F. Coca, who served since 1900, first as Assistant Demonstrator and later as Demonstrator of Pathology.

HOSPITAL APPOINTMENTS

It is gratifying to be able to report that of the graduating class 73% received hospital appointments. Of the remaining members of the class, some refused appointments to engage

immediately in practice, others accepted positions as assistants, and some signified their intention of applying for admission to the medical services of the Army and Navy.

TABULATED STATISTICS.

TABLE I.

THOUSE I.	
Fourth-year	131
Third-year	104
Second-year	104
First-year.	130
Special	176
DP-0-1411-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	4
	545
TABLE II.	
Candidates who had been members of the Senior Class in a	34
college of standing	9
college of standing	6
Class in a college of standing	15
in a college of standing	16
Candidates who had passed the entrance examinations Candidates who had passed examinations in subjects not covered by diplomas from high school or normal	10
school	15
academies or seminaries	71
	176

TABLE III.

Alabama	2	Missouri	Т
Arkansas	I	Nebraska	ī
California	2	New Hampshire	5
Colorado	2	New Jersey	37
Connecticut	4	New York	21
Delaware	4	North Carolina	4
District of Columbia	4	Oklahoma	T
Florida	2	Ohio	18
Georgia	I	Oregon	T
Illinois	3	Pennsylvania	346
Indiana	6	Rhode Island	2

Report of the Dean of Medicine.

119

TABLE III. (Continued)

Iowa	3	South Carolina	I
Kansas	2	Texas	6
Kentucky	5	Utah	2
Maine	3	Vermont	I
Maryland	7	Virginia	4
Massachusetts	15	Washington	4
Minnesota	4	West Virginia	7
Mississippi	I	Wisconsin	I
		Foreign	II

SUMMARY.

New England States	30	Pennsylvania, including	
	0		
Middle States	91	Philadelphia	346
Western States	II	Middle West	23
Southern States	33	Foreign	II

APPENDIX VI.

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 the academic year 1904-05:

The total number of students matriculated, 1903-04,		359
Students of the Third Year	168	
Students of the Second Year	81	
Students of the First Year	90	
Special Students	20	
		359
Number of new matriculates, including those admitted		
to advanced standing		141

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

Australian College of Dentistry, Melbourne, Australia	3	
Cincinnati College of Dental Surgery	1	
Dental College of Geneva, Switzerland	I	
Faculty of Physicians and Surgeons, Glasgow	I	
Georgetown University, Dental Department	I	
L'école Odontotechnique, Paris, France	I	
Liverpool Dental Hospital, Liverpool, England	I	
Medico Chirurgical College, Dental Department	I	
Milwaukee Medical College, Dental Department	I	
New York College of Dentistry	6	
New York Dental School	I	
Pennsylvania College of Dental Surgery	3	
Pittsburg Dental College	I	
Philadelphia Dental College	II	
Royal College of Dental Surgeons, Ontario, Canada	I	
Royal Dental Hospital, London, England	I	
State University of Iowa	I	

University of Breslau, Germany	1
University of Buffalo, Dental Department	I
University College of Medicine, Dental Department	I
University of Freiburg, Germany	I
University of Illinois, Dental Department	I
University of Liege, Belgium	I
University of Michigan, Dental Department	I
University of Southern California, Dental Department	I
University of Turin, Italy	I
Tokyo Dental College	I
Yale University	I
University of Zurich	2

The numerical representation of the several states and countries in the Department is as follows:

Middle States	186
Western States	12
New England States	52
Southern States	12
Pacific States	3
Australia	23
Austria	2
Belgium	I
Brazil	3
British West Indies	4
Canada	12
Chile	5
Cuba	2
District of Columbia	I
England	3
France	3
Germany	3
Holland	I
Italy	I
Japan	2
Mexico	2
New Zealand	13
Porto Rico	1
Russia	3
Scotland	I
South Africa	ī
Spain	1
Sweden	I
Switzerland.	4
Syria	4 T
~,	

SUMMARY.

United States	267
Foreign countries	92

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

Number of clinical operations.	-0 -
Number of mechanical operations, including crown-and-	28,194
bridge work and technic work	
Number of patients	4,155
Amount of gold used for filling 1 : 6 :	14,637
Amount of gold used for fillings exclusive of that used in mechanical work, ounces	
Number of students in the analysis	95
Number of students in the graduating class	168
Number of students who received the degree	153

The total number of matriculates for the session 1904-05 is 359, being three less than the total number for the preceding session. A comparison of the totals of the first year registration as between this and the previous session shows an increase of 18 matriculates for the present first year class over the total of the same class for the preceding session. This increase in the first year registration is a gratifying indication of the tendency towards a return to our normal registration figures which were temporarily disturbed because of the agitation connected with the proposed four years' curriculum that was subsequently abandoned as stated in my previous report.

The number of matriculates admitted to advanced standing from other institutions for the present session is 50, being three less than the previous session, the close approximation of these two totals indicating that our relationship in this particular to other dental educational institutions continues to be normal and satisfactory. The cosmopolitan character of our student body has always been a characteristic feature of the Department of Dentistry. The total number of matriculates admitted from foreign countries for the previous session was 87 and for the present session 92, an increase in

foreign matriculates of about $1\frac{1}{2}$ per cent. of the total registration for the present session. A large proportion of those coming to us from foreign countries are qualified dental practitioners who enter the Department for post-graduate work. They are an especially desirable group of students from the fact that they represent a class that is seeking the highest professional equipment for its intrinsic value to them as practitioners and who are willing to secure the desired training at the cost of large personal sacrifice of time and money. The increase in the number of this class of earnest students is therefore a gratifying index of the reputation which our institution has achieved and is maintaining abroad, a position which is being continually strengthened by the loyalty of these same men when as our alumni they are scattered over all civilized countries of the globe.

With the concurrence of the administration the Faculty of the Department of Dentistry has officially announced an increase in the charge for tuition fees to \$150 per annum upon all new matriculates for the session of 1904-05. wisdom and equity of this change is evident when it is considered that notwithstanding the enormously increased cost of furnishing a dental education in accordance with modern standards the present tuition charge is the same as that which has been in vogue for the past half century. Increased cost of equipment, involving laboratories elaborately fitted with expensive appliances, new additions to the curriculum, an increased teaching force and generally enlarged plant have combined to bring about the necessity for a more equitable charge for these improvements and facilities accessible to the dental student of to-day and it is confidently believed that the self-evident justice of the increased fee will be cheerfully and practically concurred in by future incoming classes.

There is an aspect of the clinical service of the Department of Dentistry which is worthy of attention, namely, its

importance as a public charity. The figures given in this respect representing the number of patients treated during the year do not include a considerable number who apply for the relief of pain and distress arising from dental troubles and various surgical diseases of the mouth and jaws. Inclusive of this latter class of cases, the total number of patients who have received attention during the year would considerably exceed fifteen thousand, and the service rendered to this large number of people has been gratuitous with the exception of a minimum charge for material where that has formed a necessary part of the treatment.

The service of dentistry, while it is less conspicuous than that of medicine or surgery from the fact that it less frequently involves the issue of life and death, is nevertheless a service for the relief of suffering, the improvement of personal appearance, and the betterment of the function of mastication, in the fulfilment of which latter office it is directly concerned with bodily health. It is for these reasons that I deem the clinical work of this Department to be worthy of recognition as one of the important charitable services which the University is conducting for the public welfare as well as in the interest of its own educational work.

There are two sources of educational activity connected with the Department to which I have not heretofore referred but which I deem now worthy of note, namely, the undergraduate dental Societies and the Penn-Dental Journal.

There are in active operation three undergraduate dental societies that hold regular meetings throughout the Academic session, in all of which papers upon topics of professional interest are read and discussed. The training afforded in this association work is of inestimable value to the participants not only in improving their powers of observation and precise reasoning, but as a preparation for a phase of future activity that is essential to professional success.

The prominence taken by our alumni generally in the larger activities of dentistry throughout the world is, in the judgment of our Faculty, in no small degree attributable to the excellence of the training which as undergraduates they have practically received in dental society work.

A worthy adjuvant to the activities of the undergraduate dental societies is the Penn-Dental Journal, the official professional organ of the dental student body. This periodical which is issued bi-monthly, was first issued in 1897. It constitutes the outlet for the best literary work of the undergraduate societies and of the student body generally. It is wholly under student management and has attained an enviable position among publications of its class, being frequently quoted by the leading professional periodicals both in this country and abroad. Its educational value is its most important feature, in which respect it is analogous to that of the undergraduate organizations. The journal has a considerable circulation among our alumni as well as among the undergraduate body. It has been self-supporting from the beginning.

No changes have taken place in the personnel of the teaching staff nor have any important changes been made in the curriculum.

I have pleasure in commending to your attention the general excellence of the work accomplished by the teaching staff during the session, and of recording the satisfaction felt by all connected with the Department of Dentistry as well as by its Alumni generally by reason of the formal recognition of the distinguished services to dentistry by a member of our faculty, Dr. James Truman, upon whom the University conferred its honorary degree of Doctor of Laws on "University Day" of last year.

Respectfully submitted, EDWARD C. KIRK,

Dean.

APPENDIX VII.

REPORT OF THE DEAN OF THE FACULTY OF VETERINARY MEDICINE.

To the Provost of the University:

Sir: I have the honor to present this report on the Veterinary Department for the year ending August 31st, 1905.

The attendance of students during the year was as follows:

Students of the Third year class	13
Students of the Second year class	29
Students of the First year class	36
Special student	I
Total	79

The temporary building at 39th Street and Woodland Avenue that had been occupied by the Veterinary School and hospital since 1901, has continued in service during the past academic year. All plans for improving the courses of instruction are held in abeyance pending the provision of better facilities for teaching, as, under existing conditions all available energy and efforts are required to keep the grade of instruction up to previously established standards.

It is, therefore, with much gratification that I am enabled to refer to the reception of a gift of \$100,000 from a friend of the School, whose name is not to be revealed, and of an appropriation of \$100,000 from the Commonwealth. The income from the first mentioned donation is to be used for the support of the work of the Department, while the appropriation made by the Legislature and Governor is to be used for the erection of a much needed building.

Each of these provisions is most timely and encouraging, and each goes far to meet a vital need of the Institution. To the members of the Veterinary faculty, who have for years labored and sacrificed for the School with patience and devotion, the most encouraging feature of these additions to the resources of the Department is that now the permanency of the School and of the results of their work is assured.

Coupled with the appropriation from the Commonwealth is a stipulation to the effect that in the building that is to be erected with the public funds, laboratories shall be provided for the use of the State Livestock Sanitary Board in its work of investigation concerning the diseases of domestic animals. This arrangement, viewed broadly, appears to be of considerable advantage to the Commonwealth and to be useful to the School as well, in that it makes it possible for the School to be of more direct and of larger service to the State. Undoubtedly, the laboratory and research work of the State Livestock Sanitary Board can be done more satisfactorily, under more favorable conditions and at less expense at the Veterinary School than at any other place in Pennsylvania. At the same time there are educational possibilities associated with this work that would be lost if it were conducted elsewhere.

On the sixth of July a fire, due to an unknown cause, occurred in the temporary building of the Veterinary Department, which resulted in the destruction of the second floor of the building with its contents, and in considerable damage to the contents of the first floor. It has been possible to repair the building so that the work of the School and the hospital may proceed without material interruption. The most serious loss consisted in the destruction of the

museum specimens stored on the second floor. These specimens represented the accumulations of twenty years and it will be difficult to replace many of them.

The demands upon the School for veterinarians for special service continue greater than the supply. With the increased facilities that will be provided in the new building, additional instruction will, no doubt, be provided that will make it possible to furnish the extra training that is so urgently needed.

There is convincing evidence to show that the services of veterinarians are in increasing demand. The livestock industry is growing in all of its departments, excepting sheep husbandry, and so the interests that depend upon veterinary protection are enlarging. The farm animals of the United States have increased in value, according to the statistics gathered by the Secretary of Agriculture, \$249,000,000 since the census of 1900, or 9 per cent. Moreover, the services of veterinarians are becoming more valuable through the better training afforded by the schools, and are better appreciated than formerly. All of this has the effect of increasing the demands upon our school, which, fortunately, is now in position to prepare to more fully meet these demands. Altogether, the outlook for the future is bright and encouraging.

With regard to the arrangement of the various courses of instruction, especially where the teaching of veterinary students interlocks with that of medical students, there is in some branches a need for readjustment that will lead to more specialization of teaching. This need has long been recognized but the School has not had the staff, space or supplies for doing the work that has been desired by the

faculty and students. The medical department has heretofore supplied and continues to supply invaluable assistance, which is very highly prized and appreciated. This question of the inter-relations of veterinary and other courses of instruction in Universities is now being actively discussed in European veterinary periodicals, on account of the closer relations that are being effected between veterinary colleges and Universities. The two Swiss veterinary schools, until recently separate and independent institutions, have been incorporated with the Universities of Bern and Zürich. The veterinary school in Munich is to become a department of the University of Munich, with a separate faculty. The Universities of Leipzig and Giessen have long had veterinary departments, and there is a movement on foot to join the veterinary schools of Berlin and Budapest with the Universities in those cities. In every case, the integrity of the organization of the Veterinary School and faculty is preserved, and the chief gain to the Veterinary School results from the right of its faculty to grant a University degree. and there is some saving in the equipment of laboratories and in providing instruction, by avoiding unnecessary duplication. All of this European development and experience is illuminating, and some of it is sure to be of service to us in the development of our work.

Plans for the new school and hospital buildings are being prepared with great care and are now practically complete.

Respectfully submitted,

LEONARD PEARSON,

Dean.

APPENDIX VIII.

REPORT OF THE LIBRARIAN.

To the Provost of the University.

Sir: I have the honor to present the report of the Library for the year ending August 31, 1905. The past year has been marked by a decided increase, both in the number of those registered as using the Library, and in the circulation of the books. As against 1729 noted for the year ending August 31, 1904, the number of readers registered for the past year was 1989, while the circulation of books reached the number 62,651 as against 53,854 for the preceding year, representing an increase of fifteen per cent. in the number of readers and of sixteen per cent. in the circulation.

The increase in the use of the Library extends to all departments, but is particularly noticeable in the College and in the Department of Philosophy. If, in addition to the figures furnished by the statistics of the Circulation Department, we consider that the students taking technical courses, Architecture, Chemistry, Civil and Mechanical Engineering, and Physics, as well as those pursuing Biological studies and Psychology, have special libraries at their disposal that are in constant use; and that the Law Library, which has its separate administration, is frequented by a daily average of over four hundred students, it will be safe to say that all but a very small percentage of the total registration of students in the University avail themselves of the privileges offered by the Library, and are dependent for help in their studies upon material furnished by the University's collections of books. This is, of course, as it should be, but it is worth noting that thanks to the active co-operation of the Provost and of the Library Committee it has been possible to bring the Library much nearer to the standard required for the work mapped out in the various departments of the University.

On the other hand, it must be borne in mind that, corresponding to the steady growth of the University, the demands made upon the Library necessarily increase, and I feel, therefore, impelled at the outset of this report to urge again upon you, Mr. Provost, and upon the Board of Trustees, the imperative need of a more adequate Library endowment. In order to defray the cost of annual subscriptions to periodicals, and to have a substantial balance each year to continue the work of completing our files of periodicals and serial publications, an endowment of one hundred thousand dollars is needed. Of the large number of subjects represented by the departments of the University, only two, English Literature and Medicine, are provided with special endowment We need similar funds ranging from five to ten thousand dollars for Architecture, Astronomy, Chemistry, Civil Engineering, Dentistry, Comparative Philology, Geology, Germanic Languages, Greek, History, Latin, Mathematics, Mechanical Engineering, Philosophy, Physics, Romanic Languages, Semitic Languages, and Zoölogy. division of History we have a nucleus in the fund of one thousand dollars contributed a few years ago by Mrs. Charles Stillé, with the interest of which a considerable number of valuable works have already been purchased. Philosophy, also, we have a nucleus in the Krauth Fund, yielding about seventy-five dollars a year; and we likewise have a fund from the Pennsylvania Society for Promoting Agriculture, yielding about fifty dollars annually, which can be used for certain classes of books of value to the department of Botany. If these funds, and particularly the first two, could be increased to five thousand dollars, the work in the departments in question would be greatly facilitated. While there are pressing needs in all departments, I should like particularly to emphasize at present, next to the Periodical Fund, the necessity for more ample funds for History, which

covers such a large field and comprises various subdivisions both in the College and in the Graduate School. Would it not be possible to interest some among the numerous friends of the University to the extent of providing these special funds so urgently needed, ranging from five thousand to ten thousand dollars, to be devoted to the purchase of books on subjects designated by the donors, and the fund to be named in accordance with their wishes? It may be noted that all books purchased out of any special fund for the Library are marked by a book-plate designating the name given to the fund or the name of its donor.

GIFTS.

While during the past year the Library has not received any very large collections of books, smaller collections and single volumes, as well as monographs and pamphlets, have been received in such large numbers that it was found necessary to secure additional cataloguers in order to dispose of the rapidly growing accumulation. Among those who have regularly forwarded books of a miscellaneous character to the Library may be mentioned, as in former years, Provost Harrison, Dr. S. Weir Mitchell, Mr. J. G. Rosengarten, and Dr. Talcott Williams. Additions to the Text Book Library have been received from W. B. Saunders and Company, whose generosity in forwarding almost all of their medical publications merits especial mention, Messrs. Scott, Foresman and Company, William Wood and Company, and P. Blakiston's Sons; and the J. B. Lippincott Company invariably respond with the greatest courtesy to any request coming from the Library. Other individual donors were Professor E. J. Houston, who sent a set of his own publications, Dr. Horace Howard Furness, who donated four early and now rare editions of Sanskrit productions, and Hon. Mayer Sulzberger, who sent a number of interesting Armenian books. unique interest came to us from Mr. J. Hartley Merrick, of the Class of 1890, College, consisting of complete files of College periodicals, as follows: University Magazine, Chaff, Pennsylvanian, Red and Blue, Examiner, and Punch Bowl, and also a file, not quite complete of the University News. With the kind co-operation of Dr. Ewing Jordan the Library also succeeded in completing its file of "Class Records," so that with Mr. Merrick's valuable gift we now have a practically complete collection of the material issued by undergraduates, that will be of service to the future historian of the University. The following members of the Faculty have very generously given the Library copies of their own publications,—Professor A. T. Clay, Dr. C. W. Dulles, and Dr. C. H. Frazier.

Among donations to the Library for special purposes we have received, in addition to the customary gift of three thousand dollars from a friend of the University (of which two thousand was given for books and one thousand dollars for subscriptions to periodicals), one hundred dollars from Mr. Samuel Castner, Jr., to purchase facsimiles of Vatican and Ambrosian codices, and one hundred dollars from Mr. J. G. Rosengarten for the purchase of current books pertaining to History; fifty dollars from the Society of the Alumni (College) for books of a general character for the benefit of College students. Messrs, William Dreer, Joseph Morwitz, and John W. Pepper contributed \$427 as a special fund for the purchase of botanical books. Mr. Rosengarten also placed at the disposal of the Department of History \$250 for the purchase of important serials, and another sum of six hundred dollars was subscribed by a friend of the University to enable Professor Chevney to secure some important sets of memoirs and publications of historical societies needed for the work of graduate students. The same friend defrayed the cost of completing our set of the Journal of the Royal Asiatic Society.

FUNDS AND ACCESSIONS.

In addition to the special gifts, the Library had at its disposal, as in former years, \$1507.97, representing the income from the Agriculture, Krauth, Lippincott, Norris,

lowing list:

Pepper, Stillé, and Wagner Funds. An appropriation of \$1800 for periodicals was made by the Board of Trustees, supplemented by a special grant to cover a deficit of \$54.82. The Library also received \$1434.90 from the George Leib Harrison Foundation, of which sum \$253.33 represents a balance carried from the Fellowship Fund for 1903-04, and the remainder, \$1181.57, representing a maximum appropriation of one hundred dollars from each of sixteen Fellows. Out of the fund of lapsed balances we spent \$101.59. Out of a fund obtained from the sale of duplicates, fines collected by the Library, and the fees of special readers, \$406.41 was expended. Adding to this the amount of special gifts reported above, \$4301.98, we have \$9607.67 as the total sum spent for books and periodicals. During the year \$1731.27 was spent for binding, making a grand total for books and binding of \$11.338.94.

The accessions to the Library since August 31, 1904, were 8534 volumes, bringing the total number of books accessioned in the main Library on August 31, 1905, to 211,545. The Librarian of the Law Library reports that 1831 volumes were added during the year to the Biddle Memorial Library, making a total of 33,311, or a grand total of 244,856 volumes at present in the University's collections. The distribution of additions to the Main Library is represented by the fol-

	Gifts	Purchases	Total
General works	311	251	562
Philosophy	58	234	292
Religion	616	149	765
Sociology and Economics	1330	419	1749
Philology	285	188	473
Natural Science	538	667	1205
Useful Arts	372	144	516
Medicine	447	188	635
Fine Arts	119	71	190
Literature	756	835	1591
History	559	559	1118
Totals	-	3705	9096

The difference between the total, 9096, and the accessions, 8534, represents books that were in the process of cataloguing at the date of the previous report.

PERIODICALS AND EXCHANGES.

As in former years, additions to periodicals have been made, largely through the Exchange Bureau and in part through gift. We at present receive 1360 periodicals, of which 662 are obtained by subscription, 197 through the Exchange Bureau, and 501 represent gifts.

A comparison of the number of exchanges received during the past year shows an increase of over 1300 entries. This increase is to be directly ascribed to the activity of the Exchange Bureau, through which we are steadily coming into closer touch with the universities, colleges and learned societies of this country, Europe and Asia. The willingness with which foreign institutions in most cases accede to a request for an exchange of publications, may be regarded as an indication of the value of what is published by the University, and it is therefore particularly desirable that adequate funds should be placed at the disposal of the University Publication Committee, to enable it to extend this important branch of the University's functions.

CATALOGUING.

The total number of volumes catalogued during the year was 8839, of which number 7341 represents the work done by our regular force and 1498 that done by the extra cataloguer engaged for the Jastrow Memorial Library and for the Brinton Collection. In addition, 3005 pamphlets and 1107 dissertations were catalogued, for the greater part by our own force.

							ICL	101			11101			-		, 0	-	-		-	1	1	1	- 1		_
	Sept.		Oct.		Nov. Dec		Nov.		Dec.		Ja	Jan. Feb. Mar. April. Ma		April. May. June.			ne.	Ju	ly.	Au	ıg.	Tot	al.			
	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.
U. S. Government	4	30	8	12	37	30	36	113	33	32	38	13	42	19	37	66	32	37	11	10	29	17	23	172	330	551
Foreign Govern'ts.	4	8				14	3	23	2	13		9		23	2	22	1	7		7	7	5	2	16	21	147
State	11	3	5	1	66	87	90	1	7	6	6	1	24	9	9	4	25	7	27	11	34	78	1	5	305	213
Municipal	1	2	4			8	1	1	2	5	1	5	3		3	3	2	2	3	2		1	3	2	23	31
U. S. Universities	2	66	20	10	3	51	5	17	10	49	8	78	2	42	12	72	8	88	7	115	6	54	4	37	87	679
Foreign "	1	71	2	242	1	1811	2	29	7	200		11	11	23	1	115	14	197		280		28	1	25	40	3032
Schools and Educa- tional Societies		20			1	13		3		3		3				7		5	1	10		3		2	_ 2	69
U. S. Academies and Learned So- cieties	2	11	1	8	1	3		11	2	12	2	9	2	3	2	14	2	5	3	9	5	6		13	22	104
Foreign Academies and Learned Societies	2	1			2	7	2	28	8	7		21	1	1	1	29	60	85	2	1	2	20		19	80	219
Libraries		. 3			2	7		4	1	5		2	1	17	1	48	1	24		2		10		5	6	127
Hospitals and Charitable Institutions		. 7			3	32		4		4		5	2	23		40		3		2		15			5	135
Religious Organizations		1			1	5		1		3		4		6		8		5	1	5		4	2	1	5	43
Social Clubs					3					2						1		1	3			1		44	6	49
Railroads		. 4		. 10	2	7																			2	21
Miscellaneous			. 1	1	5	18		3	2	23	1	174	2	24	16	109	4	15	1	5	1	9		5	35	386
Total	28	227	41	284	127	2093	139	238	74	364	56	335	90	190	84	538	149	481	59	459	84	251	38	346	969	5806

The detailed statistics of the cataloguing department are as follows:

Date	Works	Vols.	Cards	Pph.	Diss.
Aug. 29 to Sept. 24, 1904	167	300	1365	62	
Sept. 26 to Oct. 22	84	638	1502	II	
Oct. 24 to Nov. 26	244	893	2067	1215	
Nov. 28 to Dec. 24	251	701	2101	62	
Dec. 26 to Jan. 28, 1905	266	575	3014	45	358
Jan. 30 to Feb. 25	119	399	1715	231	64
Feb. 27 to Mar. 25	176	540	2594	85	245
Mar. 27 to April 22	252	585	2496	35	230
April 24 to May 27	257	824	2817	131	210
May 29 to June 24	436	783	2021	675	
June 26 to July 22	270	634	2328	163	
July 24 to Aug. 26	94	469	1436	95	
Total	2616	7341	25456	2810	1107

CATALOGUING OF ACCUMULATION.

Date	Works	Vols.	Cards	Pph.	Diss.
Aug. 29 to Sept. 24, 1904,	63	64	604		
Sept. 26 to Oct. 22	84	91	1025		
Oct. 24 to Nov. 26	50	54	850		
Nov. 28 to Dec. 24	182	338	622		
Dec. 26 to Jan. 28, 1905	189	219	892		
Jan. 30 to Feb. 25	119	224	1085		
Feb. 27 to Mar. 25	219	286	2022	186	
Mar. 27 to April 22	142	170	1066	9	
April 24 to May 27	47	52	414		
May 29 to June 24					
June 26 to July 22					
July 24 to Aug. 26					
, , ,					-
	1095	1498	8580	195	
	2616	7341	25456	2810	1107
T 1 1 5		00		-	
Total for year	3711	8839	34036	3005	1107

BINDING.

The work of the binding department for the past year was considerably larger than the year before, owing to the larger number of books received unbound, and to the increase in the number of volumes that had to be sent to the binders for repairs. The following table shows the number of volumes sent to the binders each month:

Aug. 29 to Sept. 24, 1905	441
Sept. 26 to Oct. 22	347
Oct. 24 to Nov. 26	407
Nov. 28 to Dec. 24	216
Dec. 26 to Jan. 28, 1905	293
Jan. 30 to Feb. 25	349
Feb. 27 to Mar. 25	388
Mar. 27 to April 22	316
April 24 to May 27	378
May 29 to June 24	504
June 26 to July 22	794
July 24 to Aug. 26	432
m . i	106-
Total	4005

CIRCULATION.

The registration of readers during the past year has been as follows:

Officers of University, Professors and Instructors	199
Students, College	
Medical Department	
Law 141	
Dental 105	
Veterinary 10	
Fellows 25	
Department of Philosophy	
Teachers' Courses	-
C 11 1 C 1 1 C to do to of the Doctortont	1623
Special readers (including 46 students of the Protestant	
Episcopal Divinity School and of the Department	
of Theology of Ursinus College) 92	
Readers paying \$3.00 a year 25	
Employees of the University 50	
	167
Total	1989

Of the total number of books, 62,651, given out during the past year, 9408 were used in the Library during the evening hours. It is gratifying to note that the number of students using the Library in the evening is increasing from year to year, last year's attendance representing an increase of 35 per cent. over the previous year, and the circulation of books in the evening showing an increase of 21 per cent. over the year before. The wisdom of keeping the Library open up to a late hour has thus been fully justified.

The following figures furnish the statistics for the attendance of students in the reference room, but do not include those using the larger room where the current numbers of periodicals are kept:

Students using the Reference Room from 8.30 A. M. to 6 P. M.

Sept. 30 to Oct. 22, 1904	2751
	4658
	3851
	3531
Jan. 30 to Feb. 25	3332
Feb. 27 to March 25	3857
March 27 to April 22	3332
	4433
May 29 to June 17	624
Total30	0,369

Students using the Library from 6 to 10 P. M.

Sept. 30 to Oct. 22, 1904	796
Oct. 24 to Nov. 26	1590
Nov. 28 to Dec. 24	1273
Dec. 26 to Jan. 28	1415
Jan. 30 to Feb. 25, 1905	1274
Feb. 27 to March 25	1438
March 27 to April 22	1286
April 24 to May 27	1795
May 29 to June 17	436
Total	

The circulation of books by classes is furnished by the following statistics:

T I	Iome use	Library use	Total
General Works	505	6,200	6,705
Philosophy	780	702	1,482
Religion	847	1,208	2,055
Sociology and Economics	3,758	9,704	13,462

	Home use	Library use	Total
Philology	. 748	593	1,341
Natural Sciences		3,815	5,153
Useful Arts	658	3,493	4,151
Medicine	356	792	1,148
Fine Arts	200	166	366
Literature	9,497	7,876	17,373
History	3,294	6,121	9,415
Totals	21,981	40,670	62,651

The circulation arranged by months was as follows:

Aug. 29 to Sept. 24, 1904	387	330	717
Sept. 26 to Oct. 22	1,593	2,703	4,296
Oct. 24 to Nov. 26	2,784	5,643	8,427
Nov. 28 to Dec. 24	2,308	4,598	6,906
Dec. 26 to Jan. 28, 1905	2,680	5,179	7,859
Jan. 30 to Feb. 25	2,349	4,441	6,790
Feb. 27 to March 25	2,381	4,867	7,248
March 27 to April 22	2.292	4,772	7,064
April 24 to May 27	2,528	5,613	8,141
May 29 to June 24	1,091	1,071	2,162
June 26 to July 22	719	637	1,356
July 24 to Aug. 26	869	816	1,685
Totals	21,981	40,670	62,651

As in former years, we have been in a position to loan books to a large number of institutions, and in return have received like courtesies from sister institutions. We are under especial obligations to Harvard University, the Library Company of Philadelphia, and to Columbia University, that have invariably responded to our requests for the loan of books which were not to be found on our shelves.

The examination of books in the stack has proceded regularly during the year, and I am happy to report that the losses are exceedingly few. On the other hand, we have lost, as in former years, quite a number of books from the alcoves in the inner reading room, and it is much to be deplored that there should be among the students some who are not restrained from appropriating University property made accessible for the benefit of their fellow-students. SEMINAR AND DEPARTMENTAL LIBRARIES.

The total number of volumes now deposited in the seminar and departmental libraries is 28,890, of which number 12,638 are in the upper floors of the Library building, and 16,252 distributed in the various departmental buildings.

I cannot close this report without referring to the loss that the Library has sustained in the retirement of Mr. W. W. Frazier from the Chairmanship of the Library Committee. During the ten years of his incumbency of that office, he devoted himself with whole-souled energy to the upbuilding of the Library. With his co-operation, the improved methods of modern Library economy were introduced in the management of its affairs. His generous aid made it possible to undertake the extensive task of recataloguing the entire collection of books, the result of which has been to produce a card catalogue that meets the highest standard required in a university library. A reading room with a capacity for 20,000 reference volumes has been fitted up, additional shelving for 30,000 volumes in the book-stack provided, and constant and extensive additions to the collections were made at his instance.

Besides his care for the Library, in which he was seconded by his associates on the Committee, he manifested a personal interest in the welfare of all engaged on the Library staff, so that through his retirement not only does the University lose a valued co-worker, but all at the Library a kind and honored friend. It is our earnest hope that the severance of official relations will not preclude his continuing to manifest an active interest in the development of the institution, to the advancement of which he contributed so largely through his time, his energies and his means.

I have the honor to be, Sir,

Obediently yours,

Morris Jastrow, Jr.,

Librarian.

APPENDIX IX.

REPORT OF THE DIRECTOR OF THE WISTAR INSTI-TUTE OF ANATOMY AND BIOLOGY.

To the Provost of the University:

Sir: I present herewith a report upon the growth of the Wistar Institute of Anatomy and Biology and the activities therein during the year ending August 31, 1905.

With regret I record the resignation, on December 10, 1904, of Dr. Horace Jayne as Director of the Institute.

Dr. Jayne's long and conscientious service as Director is marked by many important steps in the development of the

Personnel

Institute. The beginning of an Institute Library by gift of several hundred volumes of valuable scientific books, and the increase of the

museum collections by purchase from his own funds, are incidents which showed his devotion to the Institute and to his science. Dr. Jayne left to his successor a foundation well equipped with the results of years of careful work, and with plans matured upon which to build the future.

On January 11, 1905, Dr. Milton J. Greenman was elected to succeed Dr. Jayne as Director of the Institute.

With a view to the more successful achievement of the main object of the Institute, a conference of ten leading

American anatomists was called to meet at the Institute, on April 11 and 12, and consider its future development and its relation to similar institutions, and especially to the investigators in anatomy. This conference, through its com-

mittee, made the following recommendations, which were presented to the Institute:

1. The principal object of the Institute to be research. 142

This would involve:

- (a) the appointment of a chief of investigation in one or more fields;
- (b) the appointment of research assistants, as well as men who shall divide their services between the museum proper and research;
- (c) the appointment of technical assistants.

2. Research. The research shall be:

- (a) In the field of neurology,
- (b) comparative anatomy and embryology.

3. Relations. The committee recommends:

- (a) that a subvention to the Journal of Anatomy be granted;
- (b) that a committee be appointed to consider the relations of the Wistar Institute to American anatomists:
- (c) that the Wistar Institute apply to the Association of American Anatomists for co-operation.
- 4. The committee recommends that an Advisory Board of ten be appointed for general purposes:
 - (a) to form a sub-committee on neurology, as well as other sub-committees that may be needed;
 - (b) to establish relations with the committee of the International Association of Academies for Brain Investigation, and with other committees for collective investigation.
- 5. The committee would further state that while the general trend of work above outlined is recommended for the present, there is no intention to advise a limitation of the activities of the Institute to it exclusively.

In carrying out the general policy proposed at this conference, the Wistar Institute created an Advisory Board of Anatomists, and elected the following anatomists as members:

Dr. Lewellys F. Barker, Professor of Medicine, Johns Hopkins University, Baltimore, Md.

Dr. Edwin G. Conklin, Professor of Zoölogy, University of Pennsylvania, Philadelphia, Pa.

Dr. Henry H. Donaldson, Professor of Neurology, University of Chicago, Chicago, Ill.

Mr. Simon H. Gage, Professor of Histology and Embryology, Cornell University, Ithaca, N. Y.

Dr. G. Carl Huber, Professor of Histology and Embryology, University of Michigan, Ann Arbor, Mich.

Dr. George S. Huntington, Professor of Anatomy, Columbia University, New York, N. Y.

Dr. Franklin P. Mall, Professor of Anatomy, Johns Hopkins University, Baltimore, Md.

Dr. J. Playfair McMurrich, Professor of Anatomy, University of Michigan, Ann Arbor, Mich.

Dr. Charles S. Minot, Professor of Histology and Human Embryology, Harvard Medical School, Boston, Mass.

Dr. George A. Piersol, Professor of Anatomy, University of Pennsylvania, Philadelphia, Pa.

The Advisory Board organized by electing Dr. Charles S. Minot chairman, and Dr. Milton J. Greenman permanent secretary. It then proceeded to appoint the following committees:

- (1) On Neurology and the Establishment of Relations with the International Association of Academies, Dr. Lewellys F. Barker, Dr. Henry H. Donaldson, Dr. Franklin P. Mall, Dr. J. Playfair McMurrich, Dr. Charles S. Minot. This committee to elect its own chairman.
- (2) On Relations of the Wistar Institute to American Anatomists, Professor Simon H. Gage, chairman; Dr. George A. Piersol, Dr. G. Carl Huber.
- (3) On Comparative Anatomy and Embryology, Dr. George S. Huntington, chairman; Dr. Edwin G. Conklin, Dr. Franklin P. Mall.

I present the foregoing report of this conference in detail, since it promises to be a most important factor in the development of the Institute, and it is with great satisfaction that I record the entire approval of this action by General Wistar, the donor.

Through the assistance of the Advisory Board, the interests of American anatomy are being co-ordinated, and it is hoped that this Institute may become an important central institute for investigators in this department of science.

The recommendations of the Advisory Board are being carried out as rapidly as is consistent with proper manipulation of details and as the available income will

permit. I am pleased to report in this con-Professor of nection the acquisition of Dr. Henry H. Don-Neurology aldson as Professor of Neurology. Dr. Donald-

son comes to the Institute in the interests of neurology, and with a sense of responsibility to the Advisory Board, who recommended him. He was selected as the proper person to lead American research in Neurology, and will assume charge of this department of the work of the Institute on October 1, 1905. Other appointments to the neurological staff are now pending.

The Committee on the Relations of the Wistar Institute to American Anatomists has been active, and early in September will issue a circular letter addressed to the anatomists of the country, inviting their co-operation and extending to them the privileges of the Institute.

The Committee on Neurology and the establishment of relations with the Committee of the International Association of Academies for Brain Investigation has established the desired relations, and three members of our Advisory Board are now members of Advisory of the Central Committee of the International Association of Academies. They are Doctors Donaldson, Mall and Minot.

Committees Board The building of a research museum, such as the Wistar Institute is intended to be, depends upon the investigators working therein. There can be no museum without research,

Additions to

Collections

and there can be no research without a museum. They are interdependent. Our efforts during the past year have been devoted in part to the collection of such materials or specimens as are useful in the research work of the labor-

atories. From the laboratories have come many specimens which have served their purpose for present researches, and are now stored in the museum to serve some future investigation. A typical illustration of this we have in the series of sections of embryos permanently mounted upon glass slips, prepared with great care and labor, which having been used to show the development of some organ or tissue, are equally valuable to show many other structures. Of this class of material we have added to the museum collection thirty-four series of embryos, comprising 434 slides. Forty-four stages of developing shad were collected at the Torresdale Fish Hatchery, and most carefully prepared by Dr. H. D. Senior, for his work on this form, while an equal number of stages of the cod and flatfish were collected at the Woods Hole Station of the United States Bureau of Fisheries. I wish here to express my gratitude to the Commissioner of the Bureau of Fisheries for the privileges granted us in making these collections. By courtesy of Armour & Co., Dr. J. M. Stotsenburg was able to make a most complete collection of pig embryos from the abattoir in Chicago. These embryos are most skilfully prepared and will supply our laboratories for a long time to come.

A large number of specimens of traumatic dislocation of the femur and fracture of the bones of the leg and thigh have been collected during the year. These specimens are of interest from a surgical standpoint, and will be of much greater interest later, when the results of some researches in the mechanics of fracture and dislocation, now being prosecuted in the laboratory, have been published.

There have been registered, in the museum catalogue, 283 accessions, representing more than five thousand specimens. Most important of these may be mentioned the race skeletons, including seven Chinese, one Sandwich Islander, and one Filipino, a skeleton of the Bison and a series of human infant brains.

Nine loans of specimens have been made from the museum, comprising thirty-six specimens. Twelve of these were loaned for lecture purposes, while twenty-four specimens were sent out to other laboratories, including University of Michigan, Smith College, and University of Leipzig for research purposes.

Loans of Specimens

Considerable use has been made of the museum collections by authors who sought material for illustrative purposes on the subject of which they were writing.

Although no accurate record has been kept, it is very evident that the number of visitors to the museum has been increased to a marked degree during the past year.

To the equipment of the museum we have added six more standard free standing museum cases, and one "A" case, all made under our supervision in our own shop.

The increase of work in the laboratories has necessitated large expenditures in equipment. During the early part of the year our attention was devoted to the proper equipment for the preparation of fresh Laboratories anatomical material and its dissection, under Equipment fluid for museum purposes. A metal topped table, with central sink, and a compressed air apparatus, operated by a water pump, in the basement, were installed. New dust-proof closets and lockers, and a large steel framed

stack for shelving, were erected in the Neurological Laboratory, thus affording the much needed storage space for instruments and specimens. Two microscopes, two microtomes and a paraffine oven, with all their many accessories, have been added to the equipment.

A wall table of wood and iron has been erected around three sides of the neurological laboratory, affording ample

facilities for five workers in well lighted space.

The preparation of museum specimens and research materials has been actively carried on by two Junior Associates in Anatomy and one technical assistant. I am pleased to report that the elaborate oste-Laboratory ological preparations of the bones of the Work human skull which have been so extensively used by students in the museum, are nearly completed. While this series has been most attractive to medical students and others, I am inclined to think that in the future we can devote our energies to better advantage to a higher grade of anatomical work.

During the year there have been published two papers by Mr. Henry W. Fowler, of the Academy of Natural Sciences, upon the fishes of our collection, with the result that fourteen new species and two new genera have been described, and one paper on the Lymph Drainage of the Human Tonsil, by Dr. Geo. B. Wood,

has come from our laboratory.

The work on the Mechanics of Dislocation of the Hip Joint which is being carried on by Dr. Oscar H. Allis is nearing completion and promises to be Special one of the most remarkable works of its class. Research The library has been increased by the addition of seventy-four new volumes, of which twenty-eight were gifts from Dr. George A. Dorsey, Professor Simon H. Gage, Dr. Horace Jayne, Dr. S. Weir Mitchell, Dr. J. M.

Stotsenburg, University of Chicago Press, General I. J. Wistar and the United States Government. The regular subscriptions to forty-two journals and Library eleven periodically appearing monographs have been continued. The periodicals have been bound and the pamphlets classified, placed in cases and properly arranged. The cataloguing has proceeded as time permitted, although there is much of this work yet to be done.

Work in the shop has been actively carried on by the usual number of men, but owing to the extra demands made upon it to supply apparatus for the laboratories and library, it is much behind with its work. I Shop wish here to speak of the increasing satisfaction which our little machine shop has given to us in the production of special apparatus and museum equipment, and of the economical consideration in repairs to steam heating and electric lighting apparatus, and to plumbing about the building.

During the year no inconsiderable amount of money has been expended to keep the building in perfect repair. Some furniture has been added and preparations are now being made to receive the new accessions to our scientific staff, who are expected at the beginning of the new year.

Respectfully submitted,

MILTON J. GREENMAN, Director.

APPENDIX X.

DEPARTMENT OF ARCHÆOLOGY.

To the Provost of the University of Pennsylvania:

Sir: During the year ending August 31 last the Department of Archæology has continued its work on lines laid down during its early history. The year has been eventful, and despite some drawbacks, has been one of considerable advance.

The Free Museum of Science and Art, where its home work is done, and in which its collections are housed, has been open to visitors daily during the College year. The number of visitors during the year was 38,684, being 6740 more than the previous year.

The lecture course was continued during the winter, the Archæological Institute giving its welcome co-operation as heretofore.

The Board of Managers gave the use of the building for other than its own purposes during the year as follows: October 28, 1904, for a reception to first year classes of the University given by the Provost and Mrs Harrison. December 28-31, for meetings of the American Association for the Advancement of Science, including a reception on the evening of December 28, to members of the Association by the Provost and Mrs. Harrison. January 28, 1905, for a meeting in the afternoon of the Delaware Valley Naturalists' Union, and lecture in the evening. Faculty Teas were held on February 22, and May 6. On the latter date there occurred the formal opening of the Wanamaker bronze collection, replicas from Herculaneum and Pompeii, with lecture by

Dr. Bates. April 13 for a reception of the American Philosophical Society. May 25, for a lecture by Dr. Clay to the students and Professors of the Lutheran Theological Seminary. The Museum was also open three evening for visits of the Summer School students of the University, on July 14, 21, and 28. On each of these occasions Professor Hugh A. Clark delivered a lecture on Musical Instruments, illustrating his talks with instruments from the Frishmuth collection in the Museum.

The Board of the Department would like to call the particular attention of the University, and of learned societies, to the desirability of the Museum as a place for holding receptions and meetings: the Board being glad to give the use of the Museum for such purposes for the very small cost of the wages of the employes and of the coal and light used.

During the year the second number of the Transactions was issued. Reference to other publications of the Department is made in the accompanying Reports of the several Sections.

During the spring a second Prize Essay contest was held, open to the students in the higher grades in the City Grammar Schools, and to all in the High, Normal, and Manual Training Schools; Dr. Brumbaugh and Dr. Talcott Williams having the competition in charge. To them and to the other members of the Committee, as well as to the donors of the prizes, the Department wishes to express its thanks for enabling it to bring itself more closely in touch with the scholastic life of the City. Competitive drawing was this year added to the contest. The ability shown in the drawings, as well as in the essays, speaks highly for the quality of teaching in our schools.

During the year the by-laws were altered, arranging the Board of Managers into four classes of four persons each, the term of office of but one class expiring each year. Four persons will, therefore, hereafter be nominated annually by the members of the Department to the Trustees of the University.

At the January meeting of the Board the Hon. John Wanamaker was elected to fill the vacancy in the list of Vice-Presidents, caused by the death of Professor Maxwell Sommerville. Professor Sommerville's death, and his benefactions to the Department were noted in the last Report of the Provost. During the coming year the Department will receive the first payments of income from his two bequests, first for the general expenses of the Department, and second for the maintenance and care of his collections.

Dr. Hermann Ranke, Assistant Curator of the Egyptian Section, was, during the spring, offered a position in Egyptology under Professor A. Erman in the Royal Museum, Berlin. Dr. Ranke felt that the offer could not be refused, he, therefore, returned to Germany in June.

Clarence S. Fisher, the architect of the last expedition to Nippur, has continued in the employ, first of the Babylonian Committee, and later of the Department, completing his notes, drawings and models which had been begun in the field. Having now finished this work he left the service of the Department during June last.

Dr. Bates, Assistant Professor of Greek in the University of Pennsylvania, and Curator of the Mediterranean Section of the Department, in the spring secured leave of absence for one year, in order to avail himself of the offer of the Chair of Greek in the American School of Classical Study in Athens. On his arrival in Athens he found the Director of the School on his deathbed. Dr. Bates was almost immediately made Director of the School for this year—a position he will fill with great credit, and doubtless much benefit to himself and to the Department.

Mr. Francis P. Sibley, the Treasurer of the Department as well as of the University of Pennsylvania, after a long and trying illness, was compelled to resign both posts as Treas-

urer on May 19. It was with great regret that we were compelled to sever this connection, and it is with greater regret that we have to note Mr. Sibley's death on July 2.

At the end of February the Department suffered great loss by the resignations of Mrs. Cornelius Stevenson, President of the Department, and Curator of the Egyptian Section: Mr. Samuel T. Bodine, Vice President; Dr. W. H. Furness 3d. Secretary, and Curator of the General Ethnology Section: and Messrs. Calvin Wells and Justus C. Strawbridge of the Board of Managers. Some weeks later Mr. C. Hartman Kuhn resigned from the Board, and Mrs. John Harrison and Messrs. Thomas S. Harrison and C. A. Brinley from the Board of Advisory Managers. The services of each of these to the Department (particularly of the officers and members of the Board of Managers) had been of the very greatest importance to the work of the Department. Mrs. Stevenson's association therewith being contemporaneous with the very life of the Department, her individuality having impressed itself upon its work during the many years of her Secretaryship, and latterly of her Presidency. Mr. Wells, Dr. Furness, Mr. Bodine, Mr. Kuhn, and Mr. Strawbridge had long served the Department, and had contributed most liberally, in time, money and collections, to its success.

Those who remain to carry on the work of the Department are most sensible of the loss the Department has sustained. Fortunately, each of our former colleagues has expressed his or her willingness to help the Department by advising with the Board when requested.

No attempt was made during the Departmental year (ending August 31) to fill the vacancies caused by these resignations but at the date of the writing of this Report it is with pleasure that the Board reports that the vacancies have been filled as follows: Mr. B. Franklin Pepper, Mr. Edward Brinton Smith, Mr. James Hay, Dr. Norton Downs, Mr. Jacob S. Disston. Mr. Pepper was also elected Secretary; Mr. Eckley B. Coxe, Jr., Vice President; Dr. Gordon, Curator of the Gen-

eral Ethnology Section, and Dr. Bates of the Mediterranean Section.

In the Egyptian Section the work of accessioning the specimens has been continued, and the mastaba of Ra-ka-pu which was presented to the Museum by the Honorable John Wanamaker, has been erected in a room in the basement of the building and is now open to the public. The granite sarcophagus, also presented by Mr. Wanamaker, while not belonging to the mastaba, has been placed in the room, owing to the lack of space for displaying it elsewhere.

Mr. Eckley B. Coxe, Jr., again generously subscribed to the work of the Egypt Exploration Fund, and as a consequence the Museum has been enriched by a collection of over one hundred specimens from Ehnasya, Sedment, Deir el Bahari and Oxyrhynchus, including portions of wax tablets which show traces of writing, sandals, dice, reed pens, wooden combs, alabaster vases and a large limestone slab of an early

king, probably of the VIth Dynasty.

The Section is indebted to the generosity of the American Exploration Society for a fine gold octodrachm of Arsinoë, two gold solidii of Valentinian and a turquoise in gold setting, the latter probably of the XVIIIth Dyn. These specimens were all found at Ehnasya, Egypt.

Mrs. Cornelius Stevenson has presented to the Department her collection of scarabs, amulets and textiles which

had been deposited in the Museum.

Miss Boyd reports that in the preparation of the illustrated article which will be published at an early date on the excavations of the American Exploration Society in Gournia and Vasiliki, Crete, that from April 18 to August 3 last she was in Crete, devoting all her time to the preparation of plans and drawings, a complete catalogue of the Gournia findings in the Candia Museum, and detailed description of the site. From four to five weeks of this time was spent in Gournia itself, the rest in Candia. Mr. W. Sejk, an architect whose work for Dr. Doerpfeld at Troy, for the German excavations at Per-

gamon, and for the British School in Laconia, in sixteen days of very hard work measured the site at Gournia and Vasiliki, and on his return to Athens devoted a month to preparing a plan of the entire town of Gournia and sections of two important houses, also a plan and section of the excavations at Vasiliki. Mr. Helvor Bagge, who previously prepared excellent water-color drawings of some of the Gournia pottery, made three more such drawings, full size and full color, and by another process has copied some five hundred objects for illustration. While this work was going on in Crete a small insurrection was under way on the island. This added an element of uncertainty, though fortunately, there was no actual danger to life.

The Board takes pleasure in transmitting herewith the account of the work in the other Sections of the Department

in a Report from each Curator.

The Board reports that all employes of the Department, in whatever capacity, have during the past year, done their work with great faithfulness and earnestness of purpose.

The Museum building is in a very good condition, the regular force of employes having made minor repairs and

having done some painting during the summer.

The publications of the Department have been placed in the Museum for sale, and arrangements are now being made to have photographs of the more important specimens in the collections also placed on sale.

Respectfully submitted, S. F. Houston Acting President.

To the Acting President:

Sir: The work of labelling and cataloguing ethnological collections, referred to in the report for last year was continued during last winter and spring. Measures were also

adopted for the greater security and more effective preservation of these collections.

From information gathered from various sources I learned during last winter that the Indian tribes of Alaska are rapidely changing their habits of life and showing a tendency to die out under the influence of the white intruders who have recently begun to penetrate that territory in considerable numbers. In order therefore to be in advance of this movement, I was enabled by the Acting President to spend the summer in Alaska collecting specimens and other data of scientific value for the Museum. My investigations were directed especially to the tribes occupying the unfrequented and unexplored parts of the interior and of the Bering Sea Coast. As a result of the summer's work the Museum has received a large collection representing the three typical culture areas of Alaska and containing many very rare specimens and others that are quite unique. A large number of photographs and other ethnological data of great interest were obtained for the Museum by this timely expedition. During my summer's travels I was constantly reminded of the urgent necessity for immediate measures for making further collections among the surviving tribes in North America. The material which would give a proper knowledge of the American Indian is becoming scarcer every year and the time is very near when such materials will be no longer available in any form. Our knowledge of many of the existing tribes is very meagre and the collections in the Museum are still far from adequate to represent the several types of aboriginal culture on our continent. While on the Pacific Coast I visited the Lewis and Clark exposition and purchased several collections for the Museum. Apart from these accessions, the following purchases have been made since September 1st, 1904: A collection made among the tribes of the Congo Basin by the Reverend Dr. Leslie; a collection of ivories from Point Barrow; a collection of southwestern Indian basketry and textiles and a collection of Indian basketry from Louisiana.

Count Tereshima of Tokyo, Japan, has presented, through the Provost, a model of Japanese armour. Mrs. William Frishmuth has added fifty specimens to the collection of musical instruments which bears her name. Gifts have been received from Miss Helen Landell, Dr. H. C. Shurtleff, Dr. C. S. Potts, and Miss Florence Keen.

As librarian of the Museum I have the pleasure to report that during the year the library has received 155 exchanges, and as a gift from Mrs. Cornelius Stevenson a collection of 1583 books and pamphlets relating chiefly to Egyptian archæology.

Respectfully,

G. B. GORDON.

To SAMUEL F. HOUSTON Esq.,

Acting President of the Department of Archæology.

Dear Sir: I have the honor to submit the following brief report on the work of the Babylonian and General Semitic Section during the past year.

The Curator assisted by his associates devoted considerable time to the examination of the large number of cuneiform tablets and other antiquities stored in the basement of the Museum, and to the plan of rearranging the show cases preparatory to the issue of a guide through the collections. Nearly 3000 antiquities were catalogued and a number of objects placed on exhibition, including two new types of terracotta sarcophagi from Nippur and a small but representative collection of pre-Sargonic bronze and stone objects from Fâra, the probable site of the Babylonian city of Shuripak, previously presented to the Museum by Mrs. I. C. Hilprecht.

At the same time the preparation of new volumes of "The Babylonian Expedition of the University of Penn-

sylvania," published through the generosity of Mr. Eckley Brinton Coxe, Jr., was carried on vigorously. In the early spring Dr. Herman Ranke, until Jan. 1, 1905, Harrison Research Fellow in Assyriology, issued his "Early Babylonian Proper Names" (Series D, Vol. III of the whole work). Four other volumes are ready for the press, viz., "Tablets dated in the Reign of the Rulers of the First Dynasty of Babylon," by Herman Ranke (Series A, Vol. VI, Part 1.); " Exercises and Copies from the Temple School at Nippur," by H. V. Hilprecht (Series A, Vol. XIII, Part 1.); "Mathematical, Metrological and Chronological Tablets from the Temple Library at Nippur," by H. V. Hilprecht (Series A, Vol. XIV, Part 1); "Administrative Archives from the Temple Library of Nippur at the Time of the Cassite Rulers" (with incomplete dates), by A. T. Clay (Series A, Vol. XXII). Besides, the preparation of the manuscript of four other volumes of Series A and Series D, by H. V. Hilprecht, A. T. Clay, and W. J. Hinke is far enough advanced to assure their publication in the near future.

"A Topographical Map from Nippur," was discussed in the "Transactions of the Department of Archæology" (Vol. 1, Part III, pp. 223-225), by Dr. Clay, who at the same time endeavored to advance the usefulness of the Department by

a series of well attended public lectures.

In the interest of his researches on the unbaked and unfortunately much mutilated tablets from the Temple Library of Nippur, the Curator left on May 1, for the Imperial Ottoman Museum in Constantinople, where he remained till nearly the end of June, again most cordially supported in his work by His Excellency Hamdy Bey, Director General of the Museum, and becoming the recipient of extraordinary favors on the part of His Imperial Majesty the Sultan and his Government, for which he acknowledges his warm gratitude.

It is especially gratifying to refer to the remarkable development of the work of photographing and casting in charge of Mr. Witte. At times the applications for photographs, casts

and lantern slides became so numerous that the work of repairing the large number of antiquities from Nippur not yet catalogued had to be postponed.

Respectfully,

H. V. HILPRECHT,

Curator.

To the Acting President:

Sir: The Curator begs to make the following report

or the year ending August 31st, 1905.

The most important work accomplished in the Section during the past year has been the putting in place of the Wanamaker collection of reproductions of the bronzes in the Naples Museum. This collection has been set up in Pepper Hall and in the two alcoves adjoining in the east wing. A few objects have not been exhibited for lack of space, but nearly the whole collection is now open to the public. The value of this collection for students of ancient art and of private antiquities is great, and its presence in the Museum adds much to the beauty of this Section. On the occasion of the opening of the collection the Ladies of the Faculties of the University gave a tea and the Curator lectured on the bronzes.

In addition the valuable Greek marbles presented to the Museum by Mrs. Lucy Wharton Drexel which were reported

last year have also been put upon exhibition.

Unfortunately the installation of these new exhibits has reduced the space formerly given to Greek and Etruscan vases, the collection of Greek vases although small is very valuable and should be better exhibited.

Dr. Henry C. Shurtleff has presented specimens from

the Temple of Diana at Ephesus and from Pompeii.

During the past year the Curator has continued his work on the material in the Section and has published a paper in the "Transactions" on the Etruscan inscriptions in the Museum. Many of these inscriptions were previously unpublished, or incorrectly published, although they are important for students of Etruscan.

Interesting papers were contributed by Miss Harriet A. Boyd and Miss Edith H. Hall on their work at Gournia, and by Mr. Richard B. Seager on his excavations at Vasiliki, and Dr. Alfred Emerson contributed an article on the Torso of a Hermes in the Drexel Collection of Greek and Roman statuary.

This year the subjects for the prize compositions offered by the Museum to school children were both chosen from this Section.

It is hoped that the friends of this Section of the Museum may continue their interest so as to increase its collections, especially in the field of Greek vases.

WILLIAM N. BATES.

APPENDIX XI.

REPORT OF THE PRESIDENT OF THE HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA. FOR THE YEAR 1905.

To the Provost of the University:

The year 1905 may be characterized as one of prosperity

and progress to our Hospital.

We are pleased to state that the Laundry and Isolation Buildings commenced last year are now completed and in active use. We believe we have one of the most thoroughly equipped Hospital Laundries in the State; and where formerly a large portion of our laundry work had to be sent outside, with our new laundry we are now able to do all the work much more effectively.

The Isolation Building is entirely completed and ready for any infectious case that may occur in the main Hospital. We believe this will be a great protection to the other patients as well as enabling us to more thoroughly protect the infected patient who heretofore had to be sent to the

Municipal Hospital.

Three Sun Parlors have been erected to the wards in the Gibson Wing. Every ward now has a sun parlor and any one who visits the Hospital can readily see the comfort and pleasure the sick and suffering obtain from these sun parlors.

Two new suites for private patients have been provided, thus increasing our accommodations for that class of persons. It is specially noticed that the demand for private rooms is

161 . 1

increasing every year and our rooms are constantly occupied, with many waiting for them to be vacated. It is becoming very evident that the public feel that at a well conducted Hospital, better service and attention can be obtained than in their own homes.

We have also removed our ambulance stable from the Hospital grounds and have fitted up a building for that purpose in the neighborhood, which with telephone connection, enables us to do as effective service as heretofore,

The management is under obligations to Drs. deSchweinitz and Frazier for the furnishing of the Eye and Surgical Dispensaries, respectively, and we feel confident their generosity will result in a much more efficient and satisfactory

Dispensary service.

During the year, the Hospital received \$10,191.60 for an endowed bed in a private room to be named the "Maxwell Sommerville Room," and \$5000 for an endowed bed in memory of "Richard Horner Wyeth." Tablets suitably inscribed have been prepared and placed in the corridor of

the Hospital.

The number of Hospital days was 81,938. During the summer, two wards were closed owing to the building of the Sun Parlors, otherwise the number of days would have been greater. There were 3565 patients admitted, an increase of 117 over the previous year. The free patients numbered 2385, or almost two-thirds of the whole number admitted, again showing how large a portion of our service is free. The cost of maintaining the Hospital was \$191,837.81, a decrease of \$9564.31 in comparison to the year 1904. The indebtedness on August 31st, 1905, was \$13,009.21 against \$21,387.66 in August, 1904, showing a decrease of \$8378.45.

The Executive Committee have been untiring in their efforts during the past year to maintain the high standard of

the service. Our Superintendent, Miss Smith, and her assistants have shown the same careful attention to all their duties.

The thanks of the management are again due to the Board of Women Visitors for their many acts of generosity in the way of supplies to the different wards. To the Medical Staff as well as to those connected with the Dispensaries our thanks are again tendered.

JOHN SAILER,
President.

APPENDIX XII.

REPORT OF THE PUBLICATION COMMITTEE.

To the Provost of the University;

Sir: As a result, we believe, of our appeal through you to friends of the University for additional funds to prosecute our work, your Committee is enabled to report the issue of several monographs of importance as contributions to knowledge on behalf of the University since the year ending August 31, 1904. The titles thereof follow, along with the titles of those manuscripts ready for publication so soon as the necessary funds may be in hand.

TITLES ISSUED IN 1904-1905.

SERIES IN ASTRONOMY.

Results of Observations with the Zenith Telescope of the Flower Astronomical Observatory, from October 1, 1901, to December 18, 1903. By Charles L. Doolittle.

Measures of 900 Double and Multiple Stars made with the Eighteen-inch Refractor of the Flower Astronomical Observatory. By Eric Doolittle.

SERIES IN HISTORY.

The Suffrage Franchise in the Thirteen English Colonies in America. By Albert E. McKinley.

SERIES IN POLITICAL ECONOMY AND PUBLIC LAW.

The Organization of Ocean Commerce. By J. Russell Smith.

SERIES IN MATHEMATICS.

Groups of Order p^m which Contain Cyclic Subgroups of Order p^{m3} . By Lewis I. Neikirk.

164

Contributions from the Botanical Laboratory, Eight Papers, with Plates. By O. P. Phillips, et al.

CONTRIBUTIONS FROM THE ZOÖLOGICAL LABORATORY.

(For the year 1904.)

Part. 1. Nine Separata.

Part. 2. Study of the Behavior of Lower Organisms. By Herbert S. Jennings.

Memoir—The Organization and Cell-Lineage of the Ascidian Egg.

TITLES ACCEPTED AND AWAITING PUBLICATION:

SERIES IN PHILOLOGY AND LITERATURE.

George Chapman and "The Tragedie of Chabot Admirall of France." By Ezra Lehman. (In press.)

A Study of the Poetry of John Donne. By Martin G. Brumbaugh. (In preparation.)

SERIES IN PHILOSOPHY.

The Datum of Knowledge; das Gegebene in the Transition from Kant to Fichte. By William T. Paullin, Jr. (In preparation.)

Series in Astronomy.

(1) Description, and Determination of the Longitude, of the Flower Astronomical Observatory. By Charles L. Doolittle. (In preparation.)

In connection with the issue of these serial publications, the University maintains exchange relations with one hundred and seventy-two institutions of learning and scientific societies—a relationship which, we believe, is not without reciprocal profit to our correspondents, both here and abroad.

Your Committee has also published, under the University imprint, the usual "Proceedings of University Day" (February

22, 1905), and the "Proceedings of Commencement Day" (June 14, 1905).

In conclusion, your Committee again presents for your thoughtful consideration the great importance of making liberal provision for the timely publication of the results of research work done under the auspices of the University. And we feel that we cannot do better, in emphasizing this point, than by quoting the final paragraph of our last report to you

on this same topic, as follows:

"There is probably no branch of University activity more important in its effect upon the standing of a University in the academic world than the continuous and systematic publication of original material through the issue of serial monographs. We therefore make an urgent appeal through you to those who may be disposed to aid in maintaining the University Publications to contribute liberally to their support, and thereby to further one of the highest aims of the University, which is to stimulate scholarly investigation and to diffuse and promote knowledge among men."

EXCHANGE BUREAU.

FOREIGN EXCHANGES.

Aachen, Technische Hochschule, Preussen, Deutschland.

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

Amsterdam Bibliothèque de l'Université (pour la Société Mathematique), Holland.

Amsterdam, Koniklijke Akademie van Wetenschapen, Nederland.

Asiatic Society of Bengal, Calcutta, India.

Basel, Universitäts-Bibliothek, Schweiz.

Berlin, Akademie der Wissenschaften, Deutschland.

Berlin, Koenigl. Museum für Naturkunde Zoölogische Sammlung, Deutschland.

Berlin, Universitäts-Bibliothek, Deutschland.

Bern, Universitäts-Bibliothek, Schweiz.

Bernice Pauahi Bishop Museum, Honolulu, Hawaii.

Bonn, Universitäts-Bibliothek, Preussen, Deutschland.

Bordeaux, Société d'Economie Politique, France.

Braunschweig, Technische Hochschule, Deutschland.

Bremen, Kommittee für die Bibliothek, Deutschland.

Breslau, Koenigliche Universitäts-Bibliothek, Deutschland.

Brünn, K. K. Technische Hochschule, Mähren, Oesterreich.

Bruxelles, Jardin Botanique de l'Etat, Belgique.

Cambridge Philosophical Society, England.

Cambridge University Library, England.

Canadian Institute, Toronto, Canada.

Ceylon, India; Royal Botanic Gardens.

Chile, University of, Santiago, Chile. Christiania, Sweden; Botanic Garden.

Congo Museum, Bruxelles, Belgique.

Constantinople, Imperial Ottoman Museum, Turkey.

Darmstadt, Technische Hochschule, Hessen, Deutschland.

Dorpat, Imper. Universitat, Russia.

Dresden, Konigl. Botanischer Garden, Deutschland.

Dresden Technische Hochschule, Sachsen, Deutschland.

Ecole Pratique des Hautes Etudes, Paris, France.

Edinburgh, Royal Society of, Scotland.

Egyptian Government School of Medicine, Cairo, Egypt.

Erlangen, Koenigliche Universitats-Bibliothek, Bayern, Deutschland.

Ethnological Survey for Philippine Islands, Manila, P. I.

Florence, R. Instituto Botanico di Firenze, Italia.

Freiburg, i. B., Universitats-Bibliothek, Baden, Deutschland.

Geneve, Universite de Geneve, Suisse.

Genua, Reg. Universita degli Studi, Italia.

Giessen, Universitats-Bibliothek, Deutschland.

Glasgow, Natural History Society of, Glasgow, Scotland.

Gottingen, Koenigliche Gesellschaft der Wissenschaften, Preussen, Deutschland.

Gottingen, Universitats-Bibliothek, Preussen, Deutschland.

Greifswald, Universitats-Bibliothek, Preussen, Deutschland.

Halle, Universitats-Bibliothek, Preussen, Deutschland.

Hanover, Technische Hochschule, Preussen, Deutschland.

Heidelberg, Universitats-Bibliothek, Baden, Deutschland.

L'Institut Catholique de Paris, France.

Jamaica, Institute of, Kingston, W. I.

Jamaica, Public Gardens and Plantations, Kingston, W. I.

Japan, Department of Education, Tokyo, Japan.

Jena, Universitats-Bibliothek, Sachsen-Weimar, Deutschland. Karlsruhe, Technische Hochschule, Baden, Deutschland.

Kazan, l'Universite Imperial (de la Société Physics Mathématique), Russie.

Kiel, Koenigl. Universitats-Bibliothek, Preussen, Deutschland. Koenigsberg, Koenigl. Universitats - Bibliothek, Preussen, Deutschland.

Leiden, Rijks Universiteit, Nederland.

Leipzig, Universitats-Bibliothek, Sachsen, Deutschland.

Liège, l'Universite de, Liège, Belgique.

Linnean Society of New South Wales, Elizabeth Bay, Sydney, Australia.

London, Royal Society of, Burlington House, London, England. Louvain, l'Université Catholique de, Belgique.

Lund, Kong. Universitet, Sverige.

McGill University Library, Montreal, Canada.

Manchester, University of, England.

Marburg, Universitats-Bibliothek, Preussen, Deutschland.

Marine Biological Association, Plymouth, England.

Marseilles, France; Institut Colonial et du Jardin Botanique.

Moskau, Imper. Maskovskij Universitet, Russia.

Munchen, Technische Hochschule, Bayern, Deutschland.

Munster, Koenigl. Akademie-Bibliothek, Preussen, Deutschland.

Musée Social, Paris, France.

Nancy, Université de, France.

Naples, Reale Instituto D'Incoraggiamento di Napoli, Italia. New South Wales Royal Society of, North Sydney, Australia.

Oxford University, Bodleian Library, England.

Padua, Reg. Universita degli Studi, Padua, Italia.

Palermo, Circolo Matematico di Palermo, Italia.

Palermo, R. Orto Botanico di Palermo, Italia.

Perugia, Reg. Universita degli Studi, Perugia, Italia.

Philippine Museum, Manila, P. I.

Pisa, Reg. Universita degli Studi, Pisa, Italia.

Prag, Deutsche Universitat, Boehmen, Oesterreich.

Prince Edward Island, Legislative Library, Charlottetown, P. E. I.

Rennes, l'Université de France.

Rome, R. Instituto e del R. Orto Botanico di Roma, Italia.

Royal Horticultural Society, London, England.

Royal Institution of Great Britain, London, England.

St. Andrew's University, Scotland.

St. Etienne Societe D'Agriculture, Departement de la Loire, France.

St. Petersburg, Imper. Universitet, Russia.

Sapporo, Imperial College of Agriculture, Sapporo, Japan.

Sardinia, Le Matematiche Pure ed Applicate, Italia.

Société D'Agriculture, Departement de la Loire, Saint Etienne, France.

Strassburg, Universitats-Bibliothek, Strassburg, Elsass, Deutschland.

Stuttgart, Technische Hochschule, Wurttemberg, Deutschland.

Sydney Observatory, New South Wales, Australia.

Toronto University Library, Toronto, Canada.

Tubingen, Koenigl. Universitats - Bibliothek, Wurttemberg, Deutschland.

Upsala, Kong. Universitets-Bibliotek, Upsala, Sverige.

Utrecht, Rijks Universiteit, Utrecht, Nederland.

Wien, K. K. Naturhistorisches Hofmuseum, Oesterreich-Ungarn.

Wien, Technische Hochschule, Oesterreich-Ungarn.

Wien, K. K. Universitats-Bibliothek, Oesterreich-Ungarn.

Wurzburg, K. K. Universitat, Bayern, Deutschland.

Zurich, Switzerland; Botanical Gardens.

DOMESTIC EXCHANGES.

Academy of Natural Sciences, Philadelphia.

American Academy of Arts and Sciences, Boston, Mass.

American Catholic Historical Society, Philadelphia.

American Jewish Historical Society, Washington, D. C.

American Museum of Natural History, New York City.

American Philosophical Society, Philadelphia.

Ames Botanical Laboratory, North Easton, Mass.

Boston Public Library, Boston, Mass.

Brooklyn Institute of Arts and Sciences, 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 Institution, Washington, D. C.

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.

Cincinnati Society of Natural History, 312 Broadway, Cincinnati, O.

Cincinnati, University of, 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.

Davenport Academy of Sciences, Iowa.

Denison University Library, Granville, Ohio.

Detroit Public Library, Mich.

Free Library of Philadelphia.

Harvard University Library, Cambridge, Mass.

Illinois, University of (State Laboratory of Natural History), Urbana, Ill. Iowa State Historical Society, Iowa City, Iowa.

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 Horticultural Society, Boston, Mass.

Massachusetts Institute of Technology, Boston, Mass.

Michigan, University of, Ann Arbor, Mich.

Missouri, University of, Columbia, Mo.

Montana, University of, Biological Station, Missoula, Montana.

Nebraska, University of, Lincoln, Nebraska.

New York Botanical Garden, 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.

Radcliffe College, Cambridge, Mass.

Rush Medical College Library (University of Chicago), Chicago, Illinois.

Smithsonian Institution, Washington, D. C.

Texas Academy of Science, Austin, Texas.

Trinity College Historical Society, Durham, N. C.

United States Census Office Library, Washington, D. C.

Vermont, University of, Burlington, Vt.

Virginia Historical Society, Richmond, Virginia.

Wisconsin Natural History Society, Milwaukee, Wisconsin.

Wisconsin, University of, Madison, Wisconsin.

Yale University Library, New Haven, Conn.

Total receipts through Exchange Bureau:

3032 dissertations and official publications from foreign universities.

679 dissertations and official publications from United States universities.

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

4034

196 periodicals.

Respectfully submitted,

EDWIN GRANT CONKLIN,

Chairman.

APPENDIX XIII.

REPORT OF THE GRADUATES' APPOINTMENT COMMITTEE.

To the Provost of the University:

DEAR SIR: I have the honor to transmit herewith a report of work done during the past year in connection with the appointment of members of the University to teaching

There are registered on the Committee's books one hundred and fifty-three (153) applicants for teaching positions. Many of those registered are already teaching, but desire to better their positions. The Committee has received direct inquiries from forty-four (44) educational institutions looking towards filling vacancies, and in thirty-three (33) of these cases nominations have been made.

A list of schools, colleges, etc., to which appointments have been made during the past year is appended. In this list is included also a record of appointments secured through the recommendation of the heads of departments in the College.

Seventy-two (72) persons are registered with the Committee as applicants for tutoring work only.

Respectfully submitted,

Edgar F. Smith, Chairman.

University of Pennsylvania.

Missouri:	
Central College, Fayette	
New York:	1
College of City of New York	
Vassar College, Poughkeepsie	I
Pennsylvania:	I
Central High School, Philadelphia	
Chestnut Hill Academy, Chestnut Hill	I
Yeates School, Lancaster	I
Johnstown High School	I
Johnstown High School	I
Northeast Manual Training School, Phila.	2
Episcopal Academy, Philadelphia.	I
Friends' Select School	I
Girls' High School, Philadelphia.	5
Miss Gordon's School for Girls, Phila	1
Villa Nova College.	1
Allegheny College, Allegheny	I
Lenigh University	I
University of Pennsylvania	5
South Carolina:	
Woman's College, Columbia	I
Virginia:	
Ladies' Academy, Staunton	I
washington, D. C:	
Central High School	Т
Wisconsin:	
University of Wisconsin, Madison	2
Total	

APPENDIX XIV.

To the Provost of the University:

SIR: At a meeting of the Board of Trustees, held May 23, 1904, the following recommendations were approved:

1st: That the course in Physical Education be made an integral part of the University curriculum, and that the Gymnasium be under the control of the Trustees.

2nd: That the course in Physical Education shall be optional in the Department of Philosophhy, the Gymnasium not being open to women.

3rd: That in the Professional Schools the course shall be optional except to students under 21 years of age, who, in the opinion of the Director stand in need thereof.

4th: That in the College, including students, in Arts, Science, and Wharton School, the course be obligatory upon all students under 21 years of age, and upon all over that age for whom the Director may consider it advisable.

This necessitated the complete reorganization and extension of the Department as then constituted, and the appointment of a Director. I have the honor of submitting to you the first annual report as Director of the Department under these revised regulations.

The fact that the system of physical education at Pennsylvania has been occasionally referred to as one of compulsory athletics, shows that the distinction between athletics and physical education is not clear to all minds; so that in this first report I feel that this difference should be defined, if the aims and scope of the work undertaken are to be thoroughly appreciated, and the principles for which it stands are to be clearly apprehended.

The education of the bodily activities is a mere incident in most athletic games—an important one it is true—but the

game is, or should be, a spontaneous expression of the play instinct of youth, rather than an educational scheme deliberately designed for his physical betterment.

The scheme of physical education at this University must be specially adapted to the conditions of the college student; and the main requirements are for

(1) Increased respiratory power,

(2) Development of the neglected muscle groups of the arms, chest, and abdomen, and

(3) The training of neuro-muscular control, which is lamentably lacking in so many cases that present themselves for examination.

Games may be used to advantage in many of these cases, and others may have had a good start before they come to us. But for the great mass of men who enter in the first year it is necessary to begin with the simplest movements and exercises, going to more and more complicated work as progress warrants it. In this way the student receives in his four years' course a complete education of his strength, speed, agility, and endurance; besides more than a bowing acquaintance with the elementary and fundamental movements of those games and sports like boxing, fencing, wrestling, and swimming, without which no man can be called educated in the highest sense.

The propriety of including physical education in a college course, and of requiring at least a minimum, with opportunities for much more, I need scarcely more than state at this time. The experience of other institutions in which regulated physical exercises have been required over a number of years of all students shows a consistent and marked decrease in the sick list from the freshman year to the time of graduation.

A thorough examination, with advice, at the beginning of a student's course, may mean the difference between continued disability or progressive failure in health, and a constant improvement in his physical condition. It is only by this means that he can be developed harmoniously into the all round citizen,— no one part forced at the expense of another—the finished product; a man not only able to will and to plan but having acquired the vitality and physique to do and to execute.

The building that is dedicated to this work is entirely fireproof in construction; the floors and columns being concrete. Both entrances lead to spacious vestibules, near which are the offices of the Athletic Association and those of the Director of the Department. From this point one passes to a gallery, overlooking the swimming pool on the ground floor, 100 feet long by 30 feet wide, containing nine feet of water at one end, and four feet six inches at the other.

At either end of the basement are team dressing rooms or football, track athletics, and baseball, etc., with adjoining shower bath room, tailor shop, drying room, and trainer's room. One wing is for visitors and guests, and the other for the Varsity team. On the same floor as the swimming pool, are rooms for boxing, fencing and rowing.

Passing up a broad flight of stairs, one will find himself upon a raised platform, commanding a view of Weightman Hall, 144 feet long by 70 feet wide; lighted not only by ample windows, but also by a roof of glass. It is here that the more serious work of physical education is done.

On this floor, in both wings, are the locker rooms, with originally 1500 in place, and a recent addition of 1000 more.

The committee, in deciding upon the plans, clung firmly to the idea that the building must be for the development of the health and strength of the student body as a whole, and that while special activities should be encouraged, they should be encouraged only as auxilliaries to this main purpose.

Before the formal opening, which took place on December 14th, 1904, the equipment of apparatus and furnishings had to be designed; but work was begun early in October, by the examination of the candidates for the football squad (65 in number) in the temporary wooden shed, since removed, that served as a dressing room for the teams. These were

recorded upon typewritten sheets until more suitable forms were determined upon. The designs and arrangement of apparatus for the main exercise hall, and the various smaller rooms had also to be made to fit our rather unusual conditions, and provide for the accommodation of 3000 students, and for five daily classes of 150 men each. This signified the employment of new methods for clearing the floor and setting up the various pieces of fixed apparatus, which has always been a difficult problem. It was accomplished by having the parallel bars, horses and bucks, set upon standards made to fit into sockets sunk in the concrete beneath the floor. this way they are readily interchangeable, and when not in use they are stored upon trucks that occupy but little space. The horizontal bars, which are adjustable, are also fitted in floor sockets, and are readily hauled up to the iron girders of the roof; and thus the floor can be completely occupied by appafatus, or completely cleared for a large class in less than three minutes.

The examination of the general student body was begun in November and carried on almost continuously until spring. In this work I had the valued help of Mr. J. Leonard Mason, appointed instructor in gymnastics in October, 1904, and of Mr. Charles E. Suiter, who had been appointed assistant instructor at the same time, and who resigned last spring to accept the position of Director of Physical Education at Lehigh.

An analysis of the first 1000 men examined is of interest as showing the nature and extent of the defects most frequently found, and as a guide to the prescription of exercises to combat these conditions.

594 men presented marked defects of some kind, of which, 160 had uneven shoulders, the right shoulder being lower in all but twenty cases; while 84 showed well advanced lateral curvature of the spine. In 209 the chest was flattened, and the shoulders round, to the extent of making the carriage awkward, unsightly, and interfering with respiratory movement. These men were almost all capable of being straight-

ened and developed enormously by proper exercises. 217 men showed a breaking down of the arches of the foot, most of them capable of great improvement, with an increase in comfort and efficiency by the regulated exercises prescribed on cards sent to each one after the examination. These exercises were first given under the personal supervision of myself, Mr. Mason, or Mr. Suiter. Many of these men have shown marked improvement as a result of following out this work, and have reported their progress monthly.

Hernia was found unprotected by proper means, in 12 cases, and the change from an active to the comparatively sedentary student life showed, by derangement of the gastro-intestinal functions, in 200 more.

These figures will serve to give an idea of the nature of the defects found, and do not include the number of men whose heart or lungs were not in condition to warrant their engaging in the more violent forms of athletic sports and games; and who were prevented from doing themselves permanent injury.

While these examinations were going on, voluntary classes were started on the gymnasium floor in Mr. Mason's charge as soon as the first of the apparatus was in place. These classes met daily until the regular work could be organized.

The Gymnasium was formally handed over by the Committee on December 14th, 1904, and formally accepted by the University. The presentation address was delivered by Professor J. William White, representing the Committee. It was reprinted in pamphlet form with the replies to it, and sent to all subscribers to the Fund.

A tentative start was made in February, 1905, by forming classes to include all from whom the regulations required a definite amount of exercise. The enrolment for regular gymnasium work showed nearly 600 names on the class lists; 184 excused as being on teams, and 77 excused on account of physical disability making a total of 861 men.

Owing to the lateness in the session and the inevitable

delays in designing the various forms and procedures necessary at the beginning of so great a scheme many men were excused from the rule, pending a revision of the regulations, which took place during the summer, and now reads:

"In the following cases a certain amount of gymnastic or athletic work will be required, for which the student will receive credit on the basis of laboratory work. In all other cases the work wtll be optional.

College and Wharton School.—Two periods will be required in The College and Wharton School, lasting one hour each, of all full students, and of partial and special students as provided by a special form; the work to be graded and made progressive throughout the four years.

Exceptional cases to be excused from this requirement when approved jointly by the Director of the Department of Physical Education and the Dean of the Department.

Professional Schools.—The same amount of work will be required from members of the first and second years in the Department of Medicine, and from members of the first year in the Departments of Law, Dentistry, and Veterinary Medicine.

EXCEPTIONS.

First. All full students who have, in the opinion of the Director of the Department of Physical Education, had an equivalent amount of work at this, or another, University or College.

Second. Holders of a College degree in Arts or Science.

Third. Those having some physical disability.

Membership and regular attendance at practice of any of the athletic squads of the University will be taken as an equivalent for gymnasium work while the man is in active training, the attendance being reported weekly."

The classes were popular with those who took the work, from the start, and, in the spring, when the weather permitted of it, they were conducted on Franklin Field in the open air.

An examination for physical ability was made at the end

of the session, and it is to be hoped that some practical method will be designed to test progress in physical education that will correspond in some degree at least to the examinations of the more scholastic branches.

The installing and the testing of the apparatus continued during the summer, but was not completed until October, 1905, when it was finally accepted under guarantee.

In track and field athletics, Dr. Shell, Instructor in athletics, reported about 50 men in training for the various events, Franklin Field being used in fine weather, and the indoor track under the south stand during inclement weather.

The swimming pool was the first part of the Gymnasium that was ready for use. In October, 1904, Mr. George Kistler was appointed Instructor of swimming, with an assistant, and was placed in charge of the new pool. As each student came up for physical examination he was given a card which was presented to Mr. Kistler, who examined him as to his ability, and, when necessary, gave him instruction. Following is Mr. Kistler's report:

"Of 610 men who reported, 466 were found to have some knowledge of swimming, 144 could not swim at all. Of these 144 men 61 were taught to swim, and their cards returned properly certified. 83 failed to return their cards, of which, about one half have learned to swim, making a total of at least 100 who were taught to swim last year. It was found that it requires about six lessons to teach the average beginner to support himself, and make progress in the water unaided; and many more lessons to obtain any great degree of proficiency.

During the winter there were 9 meets, which included a lecture on methods of resuscitation of the exhausted or apparently drowned swimmer. In addition there was held for the first time here the Inter-Collegiate swimming Championships, and, in the spring, an Inter-Scholastic meet, in which were represented practically all the preparatory schools in this district. The pool has been an exceedingly popular

part of the Gymnasium equipment, and at times the daily average of bathers was over two hundred."

Although fencing was not a regular part of the course last year, space was provided for it in the Gymnasium, the work being ably conducted by Mr. Leonardo Terrone.

Professor Charles E. Dana kindly delivered a lecture on the "Evolution of the Sword" and "Sword Play," which were illustrated by examples from his collection. This was followed by an exhibition by members of the Fencing Club and visitors. It has been thought wise to introduce some of the elementary movements of fencing into the regular class work, and, to that end, Mr. Terrone has been appointed a regular Instructor of fencing to the University.

Boxing and Wrestling were under the control of the Boxing and Wrestling Club, for which was provided a room in the Gymnasium, but in future it will be taken over directly by the Department. The first Inter-Collegiate Wrest-

ling championship meet was held in March.

The rowing room was fitted up with sixteen rowing machines, on which the Crew candidates did their indoor training, from January till March, under the direction of Mr. Ellis F. Ward. About 40 men were in training during this period.

Provision was also made for indoor baseball and lacrosse practice by a system of nets in Weightman Hall, but I would strongly urge the necessity of providing for these sports elsewhere, as the place is unsuitable, and it is inconvenient to

keep the floor space free at the hours required.

So much of the health and comfort of the student's life depend upon the efficiency of his eyes, that it seems particularly important to find out their exact condition at the beginning of a four-year course, in which they will be under constant and offtimes severe strain. It is more especially to errors of refraction that attention must be paid, for slight errors which are not to be distinguished by a superficial examination, may produce most distressing symptoms, if left uncorrected. This is particularly true of astigmatism and

hypermetropia, which does not appear, except by the most careful tests in addition to those used to detect myopia.

Dr. Posey, the ophthalmologist of the Department, conducted the examinations, assisted by ten qualified physicians from the various hospitals. Appointments were made in groups of fifty. If the vision was discovered to be fair or below normal in either eye; if headache or other symptoms of eye strain were complained of, an immediate test for glasses was advised. If the vision was noted to be slightly defective, re-examination was advised, but not until the holidays, when the college work is not so seriously interrupted. If the tests indicated normal vision and healthy eyes, the student was so advised and his ocular condition was pronounced satisfactory.

While I do not believe it is a function of the University, or of the Department, to prescribe glasses or other treatment, as a routine practice, I believe that it is our duty to put a man upon his guard, and explain to him the fact that a pair of glasses may be to him an important and increasingly valuable investment.

The statistics of the last two years' examinations are now being compiled, in preparation for a special report in which it is expected that important information will be obtained as to the frequency and progress of ocular defects among college students, with recommendations for proper treatment of these conditions.

In future reports, such questions as posture, and the examination of the heart, blood-pressure, etc., may be discussed more in detail. Although space will not permit me to enlarge upon their importance at present the Department of Physical Education must take them into consideration, since they have so direct an influence on the health, safety and efficiency of the student.

The whole is respectfully submitted.
R. TAIT McKenzie,
Professor of Physical Education and Director of the
Department.

APPENDIX XV.

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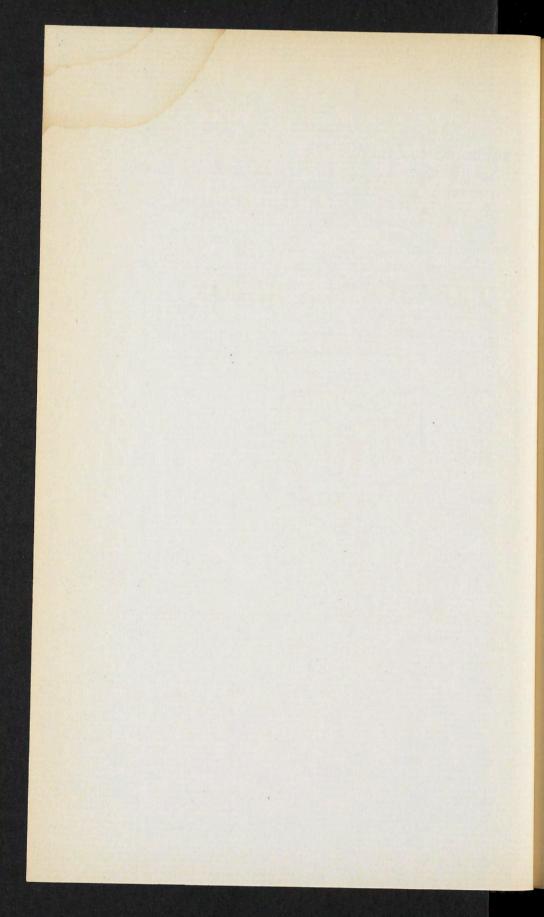
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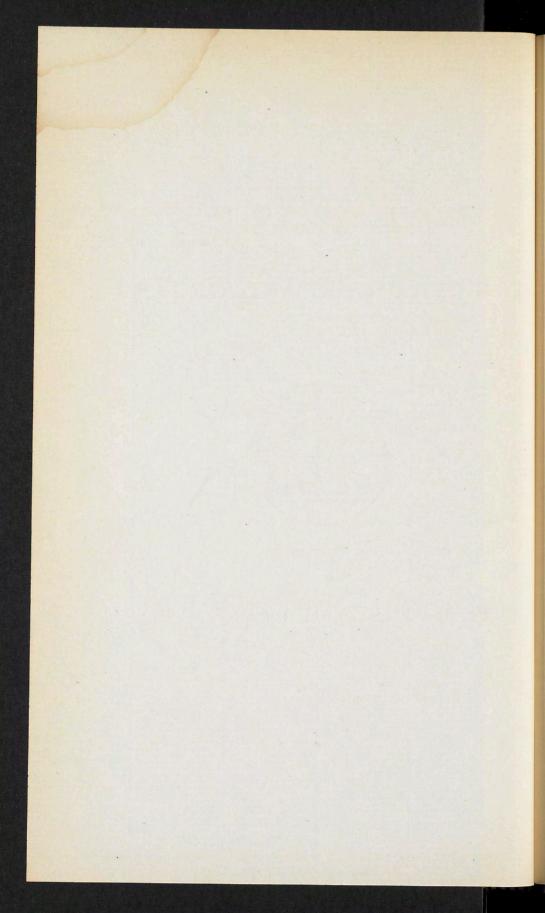
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TREASURER'S REPORT.



For the Year Ending August 31, 1905.



REPORT OF THE TREASURER OF THE UNIVERSITY OF PENNSYLVANIA.

GENERAL BALANCE SHEET.

Asset	s:			
I.	Real Estate	\$6,436,694	15	
II.	Libraries, Museums, Apparatus, Fur-			
	niture and Perpetual Insurance de-			
	posits	1,907,090	16	
III.	Securities:			
	Railroad and Corpora-			
	tion Bonds\$2,897,466 38			
	Stocks 459,273 33			
	2341111111	3,356,739	71	
IV.	Mortgages:			
	On property in Phila-			
	delphia and vicinity \$363,545 00			
	On property in			
	Chicago, etc 118,500 00			
		482,045	00	
V.	Ground Rents	0,, 00	-	
VI.	Loans on Collateral	58,842	07	
				\$12,298,565 04
VII.	Cash Balances in Various Trust Com-			
	panies and Banks:			
	To credit of Investment funds:			
	University Trusts		02	
	Building funds		77	
	Hospital funds		65	
	To credit of funds not for Investment			
	University			
	Hospital	13,682	39	
	To credit of Income:			
	University			
	To credit of Administration	72,202	15	0
		Marie Land		239,845 50
				\$12,538,410 54

Liabilities:

Bonds Central Light and Heat Station	\$30,000	00
Mortgage, No. 3451 Woodland		
Avenue	5,500	00
Advances to Trusts by Administra-		
tion	24,632	84
Advances to Land purchases, Build-		
ing funds, etc	34,209	23
Loan to Veterinary Hospital	10,400	00

104,742 07

Excess of Assets.....

\$12,433,668 47

REAL ESTATE.

IN PHILADELPHIA.

IN FIFTH WARD.

Premises	No.	224	Stam	pers St	reet.		\$1,800	00
				In	SIXTI	H WARD.		
Premises	No.	58	North	Fourth	Stree	et	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 No	rth S	Seventh	to a	
			Stree	et			20,980	00
"	Brea	d a	nd Qu	arry			1,000	00

IN TWENTY-SEVENTH WARD.

Plot of ground between Thirty-fourth and Thirty-sixth, Spruce 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 Ceme-		
tery and Guardian Street	250,000	00
Library Building	209,142	08
Biological Building	36,844	98
Plot of ground between Connecting Rail-		
way and Thirty-fourth Street	250,000	00
Plot of ground, Thirty-third and Marston		

Plot of ground between Thirty-sixth and	
Spruce, 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	242,048 01
Dormitory Building, third section	33,608 80
Dormitory Building, fourth section	1,085 62
Central Light and Heat Station	186,050 83
Department of Hygiene Building	50,000 00
Department of Hygiene Laboratory	15,001 75
Premises Nos. 3328, 3330, 3332, 3334, 3336,	
3338 Walnut Street	37,000 00
3338 Walnut Street	0.,
3350 Walnut Street	47,500 00
Premises No. 1021 Chestnut Street	44,000 00
" No. 1029 Chestnut Street	50,000 00
" Chestnut Street Opera House	350,000 00
" No. 3451 Woodland Avenue	5,500 00
" " 4053 Spruce Street	6,500 00
" " 4057 Spruce Street	6,700 00
" " 4059 Spruce Street	7,000 00
" " 249 South Forty-first Street	4,800 00
" Woodland Avenue, between Thirty-	
sixth and Thirty-seventh Streets.	30,000 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	391,831 08
Randal Morgan Laboratory of Physics	76,885 90
Premises Thirty-third and Locust	29,125 00
New Medical Laboratory	622,894 08
New Engineering Department Building	368,714 43
Plot of ground, Thirty-fourth to Thirty-fifth	
and Spruce to Pine	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

University of Pennsylvania.

James Dundes Clinia		
James Dundas Clinic		
X-Ray plant.	15,000	
Sun Parlor	25,000 7,867	
Isolation Ward	21,776	
New Laundry	14,382	
	14,302	04
In Twenty-ninth W	ARD.	
Premises No. 3011 Girard Avenue	5,300	00
In Thirty-ninth Wa	RD.	
Twenty-three and one-half acres on Dela-		
ware River Two and eighty-seven one-hundredths acres	100,000	00
on Meadow Street	20,000	00
In Chester County,	PA.	
Farm property, Glenloch, Chester Co	29,782	50
In Delaware County	, PA.	
Reese Wall Flower Observatory grounds	15,821	84
" " Professor's residence	11,808	25
In Elk and McKean Cour	NTIES, PA	
About seven hundred acres	5,054	71
In Sea Isle City, N	т.	
Marine Biological Laboratory	3,700 0	00
In Manchester, Ma	ss.	
Sundry lots of ground	15,463 4	12
In Holly Beach, N.	I.	
Sundry lots of ground	I.	00
- 8	1	
		\$6,436

\$6,436,694 15

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

College Apparatus and furniture	\$122,819 56	
Department of Medicine Apparatus and		
furniture	101,560 42	
Department of Law Apparatus and fur-	100	
niture	146,419 04	
Department of Dentistry Apparatus and		
furniture	26,850 08	
Department of Hygiene Apparatus and		
furniture	21,024 86	
Department of Veterinary Medicine Ap-	22 122 122	
paratus and furniture	11,422 00	
and furniture New Engineering Building Apparatus and	477,720 04	
furniture	an arr #0	
furniture	27,011 58	
paratus and furniture	690,000 00	
New Medical Laboratories, Apparatus and	090,000 00	
furniture	63,208 37	
Randal Morgan Laboratory of Physics, Ap-	03,200 3/	
paratus and furniture	21,338 68	
Wistar and Horner Museum, Collections	22,330 00	
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	
Orthopædic Machine Shop	2,000 00	
X-Ray Apparatus	5,000 00	
		\$1,883,031 56
Perpetual Insurance on College Buildings	\$10,089 00	
On Veterinary Buildings	900 00	
" Hospital Buildings	4,671 50	
" Hospital Buildings, Gibson Wing	900 00	
" Hospital Building, Nurses' Home	900 00	
" Biological Buildings	300 00	
" Central Light and Heat Building	1,000 00	
" Department of Hygiene Building	875 00	
" Chemical Laboratory Building	1,200 00	
15		

On Department of Dentistry	\$2,437	50
" Flower Observatory Building	200	00
		100

" Trust properties in City...... 585 60

\$24,058 60 \$1,907,090 16

SECURITIES.

RAILROAD AND CORPORATION BONDS.

	KHILKOHD HID CORTORITION BONDS.		
		Cost.	
	Atlanta Gas Light Co. 1st Mtg. 5's, 1947	\$56,750	00
103,000	Athletic Association University of Pennsylvania	103,000	00
15,000	Atlantic Coast Line Railway 1st Cons. 4's, 1952	14,250	00
50,000	Atchison, Topeka & Santa Fe Railway Gen. Mtg.		
	4's, 1995	49,777	50
17,000	Bethlehem Iron Co. 1st Mtg. 5's, 1907	17,000	00
3,300	Bloomsburg & Sullivan R. R. 1st Mtg. 5's, 1923	3,300	00
	Bloomsburg & Sullivan R. R. 2d Mtg. 5's, 1928	1,600	00
200	Bloomsburg & Sullivan R. R. Scrip	66	66
2,000	Buffalo & Susquehanna R. R. 1st Mtg. 5's, 1913	1,990	00
2,000	Brooklyn, N. Y., Union Gas Co. 1st Mtg. 5's, 1945	2,000	00
	Baltimore & Ohio R. R. 1st Mtg. 4's, 1948	25,050	00
67,000	Baltimore & Ohio R. R. prior lien 31/2's, 1925	63,590	00
55,000	Baltimore & Ohio R. R. prior lien 31/2's, 1925,		
	Southwestern Division	50,400	00
50,000	Bethlehem Steel Co. purchase money Mtg. 6's, 1998	60,000	00
500	Brooklyn Union Gas Debenture	500	00
12,000	Boston & Worcester Street Railway 1st Mtg. 41/2's,		
	1923	11,975	00
5,000	Chicago Gas Light & Coke Co. 1st Mtg. 5's, 1937	5,000	00
2,500	County of St. Louis, Minn. 6's, 1907	2,500	00
22,000	City of Galveston, Tex., 40 year Ltd. 5's, 1934	22,000	00
15,000	Choctaw, Oklahoma & Gulf R. R. Gen. Mtg. 5's,		
	1919	15,050	00
29,000	Chicago & Erie R. R. 1st Mtg. 5's, 1982	31,975	00
30,000	Central Light & Heat Station 5 4-10's	30,000	00
25,000	Consumers' Light, Heat and Power Co. 1st Mtg.		
	5's, 1938	25,000	00
1,000	City of Pittsburg Refunding 5's, 1910	1,130	00
1,000	Central R. R. of New Jersey Gen. Mtg. 5's, 1987	1,120	00
25,000	Citizens' Railway, Indianapolis, 1st Cons. Mtg.		
	5's, 1933	24,000	00
75,000	Chesapeake & Ohio R. R. Co. Gen. Mtg. 41/2's,		
	1992	75,000	00

Treasurer's	Report.
I I CUOUI OI O	Toobor o.

10,000 Connecticut Railway & Lighting Co. 1st Mig. \$10,000 oo		Cost.
45,000 Chicago, Burlington & Quincy Railway, Illinois Division 3½'s, 1949	10,000 Connecticut Railway & Lighting Co. 1st Mtg.	# **************
Division 3½'s, 1949	4½'s, 1951	\$10,000 00
5,000 Choctaw, Oklahoma & Gulf R. R. Cons. Mtg. 5's, 1952	Division 3½'s, 1949	
1952	10,000 Chesapeake & Ohio Railway Car Trust 4's, 1913.	9,657 00
60,000 Denver & Rio Grande R. R. 1st Consol. Mtg. 4's, 1936	5,000 Choctaw, Oklanoma & Gulf R. R. Colls. Mtg. 5 s,	5,000 00
12,000 Elmira & Williamsport R. R. Co. Income Bonds 5's, 2862	60,000 Denver & Rio Grande R. R. 1st Consol. Mtg. 4's,	
5's, 2862	1936	59,555 00
30,000 Evansville & Terre Haute R. R. 1st Mtg. 5's, 1942 53,000 Erie R. R. prior lien 4's, 1996 53,000 Equitable Ill. Gas Light Co. 1st Mtg. 5's, 1928 57,800 Electric & People's Traction Trust Certif. 4's, 1945 5,000 Fairmount Coal & Coke Co. 1st Mtg. 4's, 1919 5,000 Hudson County Gas Co. 1st Mtg. 5's, 1949 5,000 International Nav. Co. 1st. Mtg. 5's, 1949 15,000 Indianapolis Street Railway Co. Gen. Mtg. 4's, 1933 13,037 50 91,000 International Nickel Co. Sinking Fund 5's, 1932 25,000 Indianapolis Traction & Tunnel Co. 1st Mtg. 5's, 1932 25,000 Jersey City, Hoboken & Paterson Street Railway 1st Mtg. 4's, 1949 25,000 Jersey City & Bergen Railway 1st Mtg. 4½'s, 1923 23,000 Kansas City, Mo., Gas Co. 1st Mtg. 5's, 1922 21,882 50 1,350 Lehigh Coal & Nav. Co. Cons. Loan 4½'s, 1914 34,000 Lehigh Valley R. R. Car Trust 4½'s, 1914 34,000 Lehigh Valley Traction Co. 1st Mtg. 4's, 1929 25,000 Lehigh Valley R. R. Car Trust 4½'s, 1910 50,000 Lehigh Valley R. R. Car Trust 4½'s, 1940 51,000 Louisville & Nashville R.R. Unified Gold 4's, 1940 51,000 Lehigh Coal & Navigation Co. 4's, 1914 52,000 Lehigh Coal & Navigation Co. 4's, 1914 53,000 Metropolitan Street Railway, Kansas City, Mo. Gen. Mtg. 5's, 1909 51,000 Montreal Lt., Heat & Power Co. 1st Mtg. 4's, 1932 25,000 Montreal Lt., Heat & Power Co. 1st Mtg. 4's, 1932 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1935 25,000 oo 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955	12,000 Elmira & Williamsport R. R. Co. Income Bonds	12,000,00
53,000 Erie R. R. prior lien 4's, 1996	5 S, 2002 Haute R R 1st Mtg. 5's 1042	
93,000 Equitable Ill. Gas Light Co. 1st Mtg. 5's, 1928	30,000 Evansvine & Terre Haute R. R. 13t Intg. 5 5, 1942	
57,800 Electric & People's Traction Trust Certif. 4's, 1945 5,000 Fairmount Coal & Coke Co. 1st Mtg. 4's, 1919	53,000 Eric R. R. prior her 4 5, 1990	
5,000 Fairmount Coal & Coke Co. 1st Mtg. 4's, 1919 30,000 Hudson County Gas Co. 1st Mtg. 5's, 1949 5,000 00 50,000 International Nav. Co. 1st. Mtg. 5's, 1929 1933 91,000 Indianapolis Street Railway Co. Gen. Mtg. 4's, 1933 25,000 Indianapolis Traction & Tunnel Co. 1st Mtg. 5's, 1932 60,000 Jersey City, Hoboken & Paterson Street Railway 1st Mtg. 4's, 1949 25,000 Jersey City & Bergen Railway 1st Mtg. 4½'s, 1923 23,000 Kansas City, Mo., Gas Co. 1st Mtg. 5's, 1922 1,350 Lehigh Coal & Nav. Co. Cons. Loan 4½'s, 1914 34,000 Lehigh Valley R. R. Car Trust 4½'s, 1910 25,000 Lehigh Valley R. R. Car Trust 4½'s, 1910 5,000 Lehigh Valley R. R. Reg. 7's, 1910 5,000 Louisville & Nashville R. R. Unified Gold 4's, 1940 5,000 Lehigh Valley R. R. Consol. Mtg. 4½'s, 1923 1,000 Lehigh Coal & Navigation Co. 4's, 1914 8,000 Metropolitan Street Railway, Kansas City, Mo. Gen. Mtg. 5's, 1909 41,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1932 15,000 Montreal Lt., Heat & Power Co.1st Mtg. 4½'s, 1932 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955 50,000 oo 50,00	57,000 Equitable III. Gas Eight Co. 15t 11tg. 9 5, 1925	
30,000 Hudson County Gas Co. 1st Mtg. 5's, 1949	5 000 Fairmount Coal & Coke Co. 1st Mtg. 4's, 1919	
50,000 International Nav. Co. 1st. Mtg. 5's, 1929	20 000 Hudson County Gas Co. 1st Mtg. 5's, 1949	
15,000 Indianapolis Street Railway Co. Gen. Mtg. 4's, 1933	50,000 International Nay, Co. 1st. Mtg. 5's, 1929	50,000 00
1933	15,000 Indianapolis Street Railway Co. Gen. Mtg. 4's,	
91,000 International Nickel Co. Sinking Fund 5's, 1932 25,000 Indianapolis Traction & Tunnel Co. 1st Mtg. 5's, 1933		13,037 50
25,000 Indianapolis Traction & Tunnel Co. 1st Mtg. 5's, 1933	91,000 International Nickel Co. Sinking Fund 5's, 1932	91,000 00
1933	25,000 Indianapolis Traction & Tunnel Co. 1st Mtg. 5's,	
60,000 Jersey City, Hoboken & Paterson Street Railway 1st Mtg. 4's, 1949	1933	24,147 50
1st Mtg. 4's, 1949	60,000 Jersey City, Hoboken & Paterson Street Railway	
25,000 Jersey City & Bergen Railway 1st Mtg. 4½'s, 1923 23,000 Kansas City, Mo., Gas Co. 1st Mtg. 5's, 1922 1,350 Lehigh Coal & Nav. Co. Cons. Loan 4½'s, 1914 34,000 Lehigh Valley Coal Co. 1st Mtg. 5's, 1933 6,000 Lehigh Valley R. R. Car Trust 4½'s, 1910 25,000 Lehigh Valley Traction Co. 1st Mtg. 4's, 1929 5,000 Lehigh Valley R. R. Reg. 7's, 1910 5,000 Louisville & Nashville R.R. Unified Gold 4's, 1940 52,000 Long Island R. R. Unified Mtg. 4's, 1949 5,000 Lehigh Valley R. R. Consol. Mtg. 4½'s, 1923 1,000 Lehigh Coal & Navigation Co. 4's, 1914 8,000 00 8,000 Lehigh & Wilkes-Barre Coal Co. 4½'s, 1910 Gen. Mtg. 5's, 1909 4,894 17 41,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1932 15,000 Mortgage Trust Co. 4's, 1911 15,000 Mortgage Trust Co. 4's, 1911 15,000 Mortgage Trust Co. 4's, 1911 15,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955 25,000 00	ıst Mtg. 4's, 1949	50,000 00
1,350 Lehigh Coal & Nav. Co. Cons. Loan 4½'s, 1914 1,471 50 34,000 Lehigh Valley Coal Co. 1st Mtg. 5's, 1933 33,850 00 6,000 Lehigh Valley R. R. Car Trust 4½'s, 1910 6,120 00 25,000 Lehigh Valley Traction Co. 1st Mtg. 4's, 1929 23,000 00 5,000 Lehigh Valley R. R. Reg. 7's, 1910 5,000 00 51,000 Louisville & Nashville R.R. Unified Gold 4's, 1940 51,197 50 52,000 Long Island R. R. Unified Mtg. 4's, 1949 52,225 00 1,000 Lehigh Valley R. R. Consol. Mtg. 4½'s, 1923 1,060 00 8,000 Lehigh Coal & Navigation Co. 4's, 1914 8,000 00 8,000 Metropolitan Street Railway, Kansas City, Mo. 6,800 00 Gen. Mtg. 5's, 1999 4,894 17 41,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1910 40,743 75 8,000 Mortgage Trust Co. 4's, 1911 6,880 00 15,000 Montreal Lt., Heat & Power Co.1st Mtg. 4½'s, 1932 15,000 00 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955 25,000 00	25,000 Jersey City & Bergen Railway 1st Mtg. 41/2's, 1923	
1,350 Lehigh Coal & Nav. Co. Cons. Loan 4½'s, 1914 1,471 50 34,000 Lehigh Valley Coal Co. 1st Mtg. 5's, 1933 33,850 00 6,000 Lehigh Valley R. R. Car Trust 4½'s, 1910 6,120 00 25,000 Lehigh Valley Traction Co. 1st Mtg. 4's, 1929 23,000 00 5,000 Lehigh Valley R. R. Reg. 7's, 1910 5,000 00 51,000 Louisville & Nashville R.R. Unified Gold 4's, 1940 51,197 50 52,000 Long Island R. R. Unified Mtg. 4's, 1949 52,225 00 1,000 Lehigh Valley R. R. Consol. Mtg. 4½'s, 1923 1,060 00 8,000 Lehigh Coal & Navigation Co. 4's, 1914 8,000 00 8,000 Metropolitan Street Railway, Kansas City, Mo. 6,800 00 Gen. Mtg. 5's, 1999 4,894 17 41,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1910 40,743 75 8,000 Mortgage Trust Co. 4's, 1911 6,880 00 15,000 Montreal Lt., Heat & Power Co.1st Mtg. 4½'s, 1932 15,000 00 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955 25,000 00	23,000 Kansas City, Mo., Gas Co. 1st Mtg. 5's, 1922	
6,000 Lehigh Valley R. R. Car Trust 4½'s, 1910	1.350 Lehigh Coal & Nav. Co. Cons. Loan 4½'s, 1914	
25,000 Lehigh Valley Traction Co. 1st Mtg. 4's, 1929	34,000 Lehigh Valley Coal Co. 1st Mtg. 5's, 1933	
5,000 Lehigh Valley R. R. Reg. 7's, 1910	6,000 Lehigh Valley R. R. Car Trust 4½'s, 1910	
51,000 Louisville & Nashville R.R. Unified Gold 4's, 1940 52,000 Long Island R. R. Unified Mtg. 4's, 1949 1,000 Lehigh Valley R. R. Consol. Mtg. 4½'s, 1923 1,060 00 8,000 Lehigh Coal & Navigation Co. 4's, 1914 8,000 00 8,000 Lehigh & Wilkes-Barre Coal Co. 4½'s, 1910 55,000 Metropolitan Street Railway, Kansas City, Mo. Gen. Mtg. 5's, 1909 4,894 17 41,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1990 40,743 75 8,000 Mortgage Trust Co. 4's, 1911 51,000 Montreal Lt., Heat & Power Co.1st Mtg. 4½'s, 1932 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955	25,000 Lehigh Valley Traction Co. 1st Mtg. 4's, 1929	
52,000 Long Island R. R. Unified Mtg. 4's, 1949	5,000 Lehigh Valley R. R. Reg. 7's, 1910	
1,000 Lehigh Valley R. R. Consol. Mtg. 4½'s, 1923 1,060 00 8,000 Lehigh Coal & Navigation Co. 4's, 1914 8,000 00 8,000 Lehigh & Wilkes-Barre Coal Co. 4½'s, 1910 8,000 00 5,000 Metropolitan Street Railway, Kansas City, Mo. Gen. Mtg. 5's, 1999 4,894 17 41,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1990 40,743 75 8,000 Mortgage Trust Co. 4's, 1911 6,880 00 15,000 Montreal Lt., Heat & Power Co.1st Mtg. 4½'s, 1932 15,000 00 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955 25,000 00	51,000 Louisville & Nashville R.R. Unified Gold 4's, 1940	
8,000 Lehigh Coal & Navigation Co. 4's, 1914	52,000 Long Island R. R. Unified Mtg. 4's, 1949	
8,000 Lehigh & Wilkes-Barre Coal Co. 4½'s, 1910 5,000 Metropolitan Street Railway, Kansas City, Mo. Gen. Mtg. 5's, 1909	1,000 Lehigh Valley R. R. Consol. Mtg. 4½'s, 1923	
5,000 Metropolitan Street Railway, Kansas City, Mo. Gen. Mtg. 5's, 1909	8,000 Lehigh Coal & Navigation Co. 4's, 1914	
Gen. Mtg. 5's, 1909	8,000 Lehigh & Wilkes-Barre Coal Co. 4½'s, 1910	8,000 00
41,000 Missouri, Kansas & Texas R. R. 1st Mtg. 4's, 1990		0
1990 40,743 75 8,000 Mortgage Trust Co. 4's, 1911 6,880 00 15,000 Montreal Lt., Heat & Power Co.1st Mtg. 4½'s, 1932 15,000 00 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955 25,000 00	Gen. Mtg. 5's, 1909	4,894 17
8,000 Mortgage Trust Co. 4's, 1911	1000	40,743 75
15,000 Montreal Lt., Heat & Power Co.1st Mtg. 4½'s, 1932 15,000 00 25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955. 25,000 00	8.000 Mortgage Trust Co. 4's, 1911	
25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955 25,000 00	15,000 Montreal Lt., Heat & Power Co.1st Mtg. 41/2's, 1932	15,000 00
13,000 Norfolk & Western R. R. Co. 1st Mtg. 6's, 1932 13,000 00	25,000 Market St. Elevated Pass. Ry. 1st Mtg. 4's, 1955	25,000 00
	13,000 Norfolk & Western R. R. Co. 1st Mtg. 6's, 1932	13,000 00

		Cost.	
25,000	North Hudson Light, Heat and Power Co. Mtg.	Costi	
	5's, 1938	\$25,000	00
31,000	Northern Pacific R. R. prior lien 4's, 1997	31,000	
55,000	Norfolk & Western R. R. 1st Cons. Mtg. 4's, 1996.	54,018	75
25,000	Norfolk & Western R. R. Equip. Trust 4's, 1909.	24,522	
1,000	North Penna. R. R. Gen. Mtg, 3 3-10's, 1953	1,000	00
21,000	N. Y., Phila. & Norfolk R. R. Co. 1st Mtg. 4's,		
	1939	21,000	00
8,000	Norfolk and Western Railway Equip. Trust 4's,		
	1913	7,688	00
1,000	Norfolk Pacific Ry. Gen. lien and land grant 3's,		
	2047	770	00
22,000	Ohio River R. R. 1st Mtg. 5's, 1936	22,510	00
10,000	Oregon Short Line 25-year Refund 4's, 1929	9,687	50
3,000	Phila. & Reading R. R. Cons. 7's, 1911	3,000	00
25,000	Phila. & Reading R. R. 4's, 1937	25,000	00
3,000	Pittsburg, Shenango & Lake Erie R. R. 1st Mtg.		
	5's, 1940	3,000	00
40,000	Pittsburg Consol. Gas Co. 1st Mtg. 5's, 1948	41,000	
500	Phila. Country Club 1st Mtg. 5's, 1940	500	
9,000	Phila. & Erie R. R. Gen. Mtg. 5's, 1920	10,665	00
25,000	Phila. & West Chester Traction Co. 1st Mtg. 5's,		
	1918	25,000	00
1,000	Penna. & N. Y. Canal & R. R. Consol. Mtg. 4's,		
	1939	980	00
2,000	Penna. & N. Y. Canal & R. R. Consol. Mtg. 5's,		
T 000	Phila Wilmington & Politingua D. D. Chala Touri	2,240	00
1,000	Phila., Wilmington & Baltimore R. R Stock Trust	0	
2 000	4's, 1921	1,085	
2,000	Phila. Electric Gold Trust 5's, 1918	2,180	
20,000	Penna. Steel Equip. Trust 3½'s, 1908	19,993	
30,000	Penna. Steel Equip. Trust 3½'s, 1909	28,912	
21,000	People's Pass. Railway Stock Trust 4's, 1943	19,624	
T25 000	Reading Co. and P. & R. Coal & Iron Co. Gen.	21,735	00
123,000	Mtg. 4's, 1997	778 207	
TO 000	Raleigh & Gaston R. R. 1st Mtg. 5's, 1947	118,201	
500	Roby Street Dock & Factories Co. 6's, 1907	500	
7.000	Rochester Railway & Light Co. 5's, 1954	7,000	
15,000	Reading Co. (Jersey Central Collateral) 4's, 1951.	14,955	
	Susquehanna Coal Co., Guar. by Penna. R. R. Co.	14,933	50
-,	6's, 1911	1,000	00
111,000	San Antonio & Aransas Pass. R. R. 1st Mtg. 4's,	1,000	50
	1943	107,405	00
		/1403	

	Cost.
25,000 Scranton Traction Co. 1st Mtg. 6's, 1932	\$25,000 00
10,000 Syracuse Rapid Transit Co, 1st. Mtg. 5's, 1946	10,000 00
21,000 Second Avenue (Pittsburg) Traction Co. 1st Mtg.	
5's, 1934	21,000 00
25,000 St. Louis Merchants' Bridge Co. 1st Mtg. 6's, 1929	25,000 00
9,000 Sunbury, Hazleton & Wilkes-Barre R. R. 1st Mtg.	
5'S, 1928	8,380 00
400 Sunbury, Hazleton & Wilkes-Barre R. R. 2d Mtg.	
6's, 1938	393 50
25,000 St. Louis Terminal Cupples Station and Property	
ıst Mtg. 4½'s, 1917	24,468 75
20,000 St. Louis, Iron Mountain & Southern R. R., land	
grant 5's, 1931	20,000 00
25,000 Schuylkill Traction Co. Gold Mtg. 5's, 1943	25,000 00
5,000 Southern Pacific R. R. Stock Collat. 4's, 1949	5,000 00
10,000 St. Louis, Memphis & Southeastern R. R. Co.	
4½'s, 1909	9,900 00
25,000 Toledo, Ohio, Electric Street Railway Co. 1st	
Mtg. 5's, 1912	25,000 00
1,000 Tuckerton R. R. Co. 1st Mtg. 6 s, 1910	1,000 00
10,000 Third Avenue R. R. 1st Consol. Mtg. 4's, 2000	10,150 00
10,000 Terminal Railway Asso., St. Louis, Gen. Mtg. 4's,	
1953	9,850 00
50,000 Toledo, St. Louis & Western R. R. Co. Prior lien	
Gold 3½'s, 1925	45,488 25
25,000 United Railways Co. Gold Trust 4's, 1949	21,250 00
50,000 United Railways of St. Louis 1st Gen. Mtg. 4's,	
1934	45,375 00
7,000 United Traction Co., Pittsburg, Gen. Mtg. 5's, 1907	7,280 00
600 University Club Gold 5's, 1922	600 00
20,000 Union Pacific R. R. 1st Mtg. land grant 4's, 1947	18,500 00
10,400 Veterinary Hospital Bonds	10,400 00
2,500 Wilmington, Columbia & Augusta R. R. 1st Mtg.	0.500.00
6's, 1910	2,500 00
13,000 Wabash R. R. Co. 2d Mtg. 5's, 1939	13,000 00
34,000 Williamsport Gas Co. 1st Mtg. 5's, 1939	34,420 00
57,000 Western N. Y. & Penna. R. R. Gen. Mtg. 4's, 1943	54,411 25
23,000 Wheeling & Lake Erie R. R. 1st Consol. Mtg. 4's,	21,562 50
1949 What Chapter Lighting Co. 1st Mtg. 1's 1950	32,140 00
32,000 West Chester Lighting Co. 1st Mtg. 5's, 1950 40,000 Wilmington & Chester Traction Co. Collat. Trust	
5's, 1918	40,632 50
	\$2,897,466 38

STOCKS.

Cost.
0\$1,000 00
ofd
Co. common
ny. Co
rook R. R 105,500 00
Pass. Rway. Co 1,580 00
vay. Co 7,250 00
h America 2,022 00
ust 20,344 00
pfd 800 00
ommon 176 00
500 00
R 5,550 00
26,911 08
R. 2d pfd 107,042 00
t Co 44,482 00
7,795 50
500 00
R. Co 3,348 00
Norristown R. R 1,815 00
Co., Pittsburg, Pa 7,370 00
Pass. Rway. Co 2,727 00
Ship & Engine Building
6,000 00
k 1,530 00
d 1,500 00
Pittsburg, Pa., pfd 25,000 00
Canal Co

\$459,273 33

MORTGAGES.

ON PROPERTY IN PHILADELPHIA AND VICINITY.

ON PROPERTY IN THIERDER THE	
No. 707 Lydia Street	\$700 00
Wallace and Nineteenth Streets	6,000 00
Lancaster Avenue and Rockland	2,750 00
Cheltenham Township, Montgomery Co., 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
" 2262, 2318, 2320 North Front Street	8,000 00
" 1343 Mount Vernon Street	2,700 00
" 2977 Frankford Avenue	4,000 00
" 2987 Frankford Avenue	4.000 00
Camden, N. J	7,500 00
Thirty-Fifth Ward, City	70,000 00
No. 549 North Second Street	3,000 00
Manchester, Mass	1,000 00
Gray's Ferry Road and Thirtieth Street	2,000 00
No. 3451 Woodland Avenue	5,500 00
South, Marston and Thirty-third Streets	35,000 00
No. 2504 North Broad Street	5,500 00
No. 131 Richmond Street	1,500 00
Moreland Township, Montgomery Co., Pa	3,300 00
No. 2224 Montrose Street, Phila	600 00
West Chester Road, Chester Co., Pa	111,175 00
Cape May County, N. J	35,000 00
Cape May County, 11 June 1	\$363,545 oo
COUPON MORTGAGES.	
In Chicago, Illinois	\$25,000 00
In Chicago, Illinois	25,000 00
	7,500 00
" " "	20,000 00
« « «	7,000 00
" " "	2,500 00
	2,000 00
	16,000 00
	6,500 00
" " "	7,000 00
	\$118,500 00

GROUND RENTS IN PHILADELPHIA.

No. 29 North Sixth Street. \$2,500 00 " 533 North Front Street. 426 67 " 535 North Front Street. 426 67 " 537 North Front Street. 426 67 Green and New Market Streets. 111 11 Moore and Otsego Streets. 3,000 00 Oakford, Manton, and Twenty-second Streets, 6 at \$800 each. \$3,000 00 Stiles and Nineteenth Streets 900 00 Gray's Ferry Road 42,519 00 No. 13 and 15 Parkham Street 400 00 " 618 South Seventh Street 444 50 " 128 North Water Street 1,133 33 Lebanon, Pa. \$24,632 84 " " " " 5,000 00 Loans on Collateral \$24,632 84 " " " " 5,000 00 " " " " 5,000 00 " " " " 5,000 00 " 558,842 07	No. N. d. Cl. 4			
333 North Front Street. 426 67	No. 29 North Sixth Street		\$2,500	00
## S35 North Front Street. ## 426 67 ## Green and New Market Streets. ## 426 67 ## Green and New Market Streets. ## 3,000 00 ## Oakford, Manton, and Twenty-second Streets, 6 at \$800 each. ## 4,800 00 ## Stiles and Nineteenth Streets. ## 4,800 00 ## Stiles and Nineteenth Streets. ## 400 00 ## Mo. 13 and 15 Parkham Street. ## 400 00 ## Mo. 13 and 15 Parkham Street. ## 444 50 ## Lebanon, Pa. ## 5,000 00 ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## 10,123 40 ## ## ## ## 10,123 40 ## ## ## ## 10,123 40 ## ## ## ## ## 10,123 40 ## ## ## ## ## 10,123 40 ## ## ## ## ## ## ## ## 10,123 40 ## ## ## ## ## ## ## ## 10,123 40 ## ## ## ## ## ## ## ## ## ## ## ## ##	533 North Front Street			
Green and New Market Streets. 426 67 Green and New Market Streets. 111 11 Moore and Otsego Streets. 3,000 00 Oakford, Manton, and Twenty-second Streets, 6 at \$800 each. 4,800 00 Stiles and Nineteenth Streets. 900 00 Gray's Ferry Road 42,519 00 No. 13 and 15 Parkham Street 400 00 '618 South Seventh Street 444 50 '128 North Water Street 11,133 33 Lebanon, Pa. 57,153 95 Loans on Collateral. \$24,632 84 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' 5,000 00 ''' '' '' '' '' 5,000 00	535 North Front Street			
Moore and Otsego Streets. 3,000 00 Oakford, Manton, and Twenty-second Streets, 6 at \$800 each. 4,800 00 Stiles and Nineteenth Streets 900 00 Gray's Ferry Road 42,519 00 No. 13 and 15 Parkham Street 400 00 '618 South Seventh Street 444 50 '128 North Water Street 1,133 33 Lebanon, Pa. 557,153 95 Loans on Collateral \$24,632 84 '' " " 5,000 00 '' " " 5,000 00 '' " " 103 59 '' " " 103 59 5,400 00	53/ North Front Street		100	
Moore and Otsego Streets. 3,000 00 Oakford, Manton, and Twenty-second Streets, 6 at \$800 each. 4,800 00 Stiles and Nineteenth Streets. 900 00 Gray's Ferry Road 42,519 00 No. 13 and 15 Parkham Street 400 00 '618 South Seventh Street 444 50 Lebanon, Pa. 51,133 33 Lebanon, Pa. 66 00 Loans on Collateral \$24,632 84 '' '' '' '' '' '' '' '' '' '' '' '' ''	Green and New Market Streets			
State of the sta	Moore and Otsego Streets			
Gray's Ferry Road	Sakiold, Manton, and Twenty-second Streets	6 at \$800	3,000	00
No. 13 and 15 Parkham Street. 400 00 10 618 South Seventh Street 4444 50 11 128 North Water Street 1,133 33 12 12 13 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Stiles and Nineteenth Street		4,800	00
Loans on Collateral \$24,632 84 """ \$3,000 00 \$57,153 95 Loans on Collateral \$24,632 84 """ \$3,000 00 """ \$3,000 00 """ \$3,000 00 """ "" \$3,000 00 """ "" \$3,000 00 """ "" "" \$3,000 00 """ "" "" \$3,000 00 """ "" "" "" \$3,000 00	Grav's Ferry Pood		900	00
## 128 North Water Street ## 128 North Water Street Lebanon, Pa. ## 57, 153 95 Loans on Collateral ## 10,123 40 ## 15,000 00 ## ## 5,000 00 ## ## 103 59 ## 103 59 ## 103 59 ## 103 59 ## 103 59 ## 103 59 ## 103 59 ## 103 59 ## 103 59 ## 103 59 ## 103 59	No. 12 and 15 Poul-hom Change		42,519	00
Lebanon, Pa. 1,133 33 66 00 Loans on Collateral \$24,632 84 """ 5,000 00 """ 5,000 00 """ 8,582 24 """ 103 59 5,400 00	" 618 South Soventh Charact		400	00
Loans on Collateral \$24,632 84 """ \$24,632 84 """ \$57,153 95 """ \$57,153 95 """ \$57,153 95	" 128 North Water Street		444	50
Loans on Collateral. \$24,632 84 """ \$24,632 84 """ \$57,153 95 """ 5,000 00 """ 5,000 00 """ 8,582 24 """ 103 59 5,400 00	Lebanon Pa		1,133	33
Collateral \$24,632 84 """	Debanon, 1 d		66	00
Collateral \$24,632 84 """	T		\$57,153	95
"""" 10,123 40 """" 5,000 00 """" 5,000 00 """" 8,582 24 """" 103 59 5,400 00 5,400 00		\$24,632 84		,
" " 5,000 00 " " 5,000 00 " " 8,582 24 " " 103 59 5,400 00	***************************************			
" " 5,000 00 " " 8,582 24 " " 103 59 5,400 00		5,000 00		
" " 8,582 24 " " 103 59 5,400 00	***************************************	5,000 00		
" " 103 59 5,400 00	***************************************	8,582 24		
5,400 00	***************************************			
		0.11	\$58,842	07

UNIVERSITY ENDOWMENTS.

	Amount Invested.		Amount Uninvested.
General Fund		90	\$691 00
J. Herman Raht Fund	250		#091 00
Phi Kappa Sigma Fund	400		
Keble Fund	13,193		
Elliott Cresson Fund	4,419		
Tobias Wagner Fund	5,300		
Bloomfield Moore Fund	15,000		
Thomas A. Scott Fund	50,000		
J. H. Towne Fund	446,478		3,501 88
John Welsh Fund	51,947		885 77
A. Whitney Fund	48,114	-	2,000 00
Scholarship Fund	4,644		-,000
Benjamin Franklin Scholarship Fund	10,026		
Samuel V. Merrick Scholarship Fund	3,560		
Class 1878 Scholarship Fund	5,000		
Matthew Baird Scholarship Fund	5,013		
E. Otis Kendall Scholarship Fund	5,000		
Adam Seybert Fund	49,045		4,300 00
Chair of Christian Ethics Fund	3,015		4,300 00
Alumni Hall Fund	6,663		
Hector Tyndale Fellowship Fund	12,194		
S. W. Roberts Fund	1,114		
Wharton School Fund	529,425		
Assyrian Fellowship Fund	189		
Pepper Professorship of Hygiene Fund	59,400		
J. Rhea Barton Fund	49,865		5 00
J. Gillingham Fell Fund	1,243	1000	3
Auxiliary Faculty Medical Fund	29,797	-	1,750 98
Leidy Chair of Anatomy Fund	1,994	-	-110- 9-
Botanic Garden Fund	4,302	100	
Department of Biology Fund			300 00
I. V. Williamson Fund			42 00
George S. Pepper Residuary Legatee Fund	33,020		4,333 00
Francis S. Pepper Scholarship Fund	7,150		4,000
Chair of Pedagogy Fund	250		
Henry Reed Prize Fund			
Latin Prize Fund			
Oratory Prize Fund			
English Composition Prize Fund	200		
Arthur Spayd Brooke Memorial Prize Fund		00	

	Amount Invested.		Amount Uninvested.
J. Warner Yardley Prize Fund	\$500	00	
Class 1880 Prize Fund	1,000	00	
Allen Memorial Prize Fund	1,000	00	
P. Pemberton Morris Prize Fund	1,000	00	
Joseph M. Bennett Bequest Fund	523,461	75	\$7,151 26
Rev. C. P. Krauth Library Fund	1,621	06	
Agriculture Library Fund	916	00	
Pepper Medical Library Fund	7,708	19	
Tobias Wagner Library Fund	11,947	59	207 08
J. B. Lippincott Library Fund	7,000	00	
Isaac Morris Library Fund	5,233	69	
Reese Wall Flower Fund	191,482	24	
John Harrison Laboratory of Chemistry Fund	114,829	82	
Veterinary Fund	31,800	70	
Joseph M. Bennett Fund (Bennett Hall)	17,500	00	
Howard Houston Hall Fund	157,435	78	
Howard Houston Hall Endowment Fund	500	00	
Dormitory First Section Fund	355,016	58	
Dining Hall Fund	14,799		
Dental Hall Fund	159,138		
Wistar and Horner Museum Fund	40,110		
Department of Law Fund	7,735		
John F. Frazer Fund	11,259		
Department of Hygiene Fund	190,688	-07	97 50
Laboratory of Hygiene Fund	15,001		, ,
Thomas A. Scott Fellowship Fund	11,725		
Joseph M. Bennett Endowment Graduate	,,		
Department	45,737	50	
A. S. Biddle Fund	20,250		
Simon Muhr Fund	9,490		31 25
George L. Harrison Foundation	627,506		3,613 36
Stillé Memorial Library Fund	1,000		0, 0
John Stewardson Memorial Fund	17,667		479 30
John White Field Scholarship Fund	10,000		
Pepper Hall Endowment Fund	50,012		
University Fund for Women	100		
Professors' Retiring Fund	6,776		
Clark Chair of Assyriology Fund	99,925	100	
Thomas S. Stewart Scholarship Fund	5,000		
Robert Morris Scholarship Fund	5,000		
James Logan Scholarship Fund	5,000		
Garrett Scholarship Fund	10,000		
Thomas H. Powers Scholarship Fund	5,000		
Hartman Kuhn Scholarship Fund	5,000		
Harunan Kumi Scholarship Fund	5,000	00	

	Amount Invested.	Amount Uninvested.
Charles Brinton Coxe Scholarship Fund	\$5,000 00	
Cadwallader Scholarship Fund	4,937 50	\$87 50
Rev. James Latta Scholarship Fund	5,000 00	
Louise Harrison Scholarship Fund	5,122 50	
Stephen Greene Scholarship Fund	5,000 00	
Blanchard Fund	54,887 50	
Suddards Fund	997 50	2 50
Albert Wilson Memorial Scholarship Fund	2,495 00	102 95
Sinking Fund		625 00
Bond Interest		535 98
Spencer Morris Prize Fund	9,925 00	
George Barnett Scholarship Fund	5,000 00	
J. B. Lippincott Veterinary Fund	97,712 50	283 75
Eckley B. Coxe Scholarship Fund	5,000 00	0.0
Erskine Hazard Dickson Memorial Fund	25,000 00	
Martha Austin McDowell Scholarship Fund.	4,950 00	50 00
Erskine Hazard Dickson Memorial Lib, Fund.	1,970 00	30 00
John H. Converse Scholarship Fund	4,906 20	93 80
Mask and Wig Club Fund	4,950 50	95 00
Sommerville Collection	4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	19,364 16
	\$7,693,082 90	\$50,565 02
Hospital Endowments.	Amount Invested.	Amount Uninvested.
Hospital Endowments. General Fund	Invested.	Uninvested.
	Invested. \$943,457 31	
General Fund	Invested.	Uninvested.
General Fund	Invested. \$943,457 31 54,689 75	Uninvested.
General Fund	Invested. \$943,457 31 54,689 75 10,045 25 10,000 00	Uninvested.
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund.	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00	Uninvested. \$9,094 19
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund.	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56	Uninvested.
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00	Uninvested. \$9,094 19 2,467 16
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund.	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25	Uninvested. \$9,094 19
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund.	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25	Uninvested. \$9,094 19 2,467 16 32 50
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund.	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77	Uninvested. \$9,094 19 2,467 16 32 50 377 54
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund. George S. Pepper Fund.	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77 74,572 33	Uninvested. \$9,094 19 2,467 16 32 50
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund.	Invested. \$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77 74,572 33 4,100 39	Uninvested. \$9,094 19 2,467 16 32 50 377 54
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund. George S. Pepper Fund. Recto-Genito-Urinary Fund. Anna M. Powers Bed Fund.	\$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77 74,572 33 4,100 39 6,000 00	Uninvested. \$9,094 19 2,467 16 32 50 377 54
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund. George S. Pepper Fund. Recto-Genito-Urinary Fund. Anna M. Powers Bed Fund. Mary W. Eskens Bed Fund.	Invested. \$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77 74,572 33 4,100 39 6,000 00 5,000 00	Uninvested. \$9,094 19 2,467 16 32 50 377 54
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund. George S. Pepper Fund. Recto-Genito-Urinary Fund. Anna M. Powers Bed Fund. Mary W. Eskens Bed Fund. Dr. D. Hayes Agnew Hospital Fund. Dr. D. Hayes Agnew Bequest for Care of	Invested. \$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77 74,572 33 4,100 39 6,000 00 5,000 00 171,645 57	Uninvested. \$9,094 19 2,467 16 32 50 377 54
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund. George S. Pepper Fund. Recto-Genito-Urinary Fund. Anna M. Powers Bed Fund. Mary W. Eskens Bed Fund. Dr. D. Hayes Agnew Hospital Fund. Dr. D. Hayes Agnew Bequest for Care of Sick Children	Invested. \$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77 74,572 33 4,100 39 6,000 00 171,645 57	Uninvested. \$9,094 19 2,467 16 32 50 377 54
General Fund. Hahn Ward Fund. Alumni Ward Fund. Mrs. G. W. Norris Fund. Bement Fund. Ward Chronic Diseases Fund. Dr. William Pepper Clinical Laboratory Fund I. V. Williamson Hospital Fund. Children's Ward Fund. Henry Seybert Fund. George S. Pepper Fund. Recto-Genito-Urinary Fund. Anna M. Powers Bed Fund. Mary W. Eskens Bed Fund. Dr. D. Hayes Agnew Hospital Fund. Dr. D. Hayes Agnew Bequest for Care of	Invested. \$943,457 31 54,689 75 10,045 25 10,000 00 5,000 00 280,147 56 25,030 00 47,621 25 32 07 58,239 77 74,572 33 4,100 39 6,000 00 5,000 00 171,645 57	Uninvested. \$9,094 19 2,467 16 32 50 377 54 307 12

Hospital Endowments.	Amount Invested.	Amount Uninvested
Children's Medical Ward Fund		Uninvested
Andrew C. Butler Fund		
Ligonier Fund		\$197 72
Children's Orthopedic Ward Fund	. 14,140 00	#-91 12
Nurses' Home Fund	. 450 00	
A. Sydney Roberts Apparatus Fund		
John White Field Fund		
Abby Willing Peters Fund		
Maternity Fund		150 05
Edward Rhodes Memorial Fund		130 03
Alfred Gustavus Baker Fund		
Abraham and Mary Baker Fund		
Mary B. K. Wainright Fund		
Hamilton Disston Fund		
Percival Roberts Fund		
Thomas Harrison Fund		
Langstroth Fund		
Richard Heckscher Fund		
Woodward Fellowship Fund	0, 0	
	,,	154 24
Josephine S. Wentz Fund		
Thomas Elkinton Fund	4,500 00	167 91
George W. Vogel Fund		
Diet Kitchen Fund	-,0	
Emily M. Harrison Fund		18 12
Edward Roberts, Jr., Fund		
Mary Kay Fund	5,000 00	
Hiram Brooke Fund	4,987 50	12 50
Anna D. Scott Memorial Fund	15,000 00	
Sinclair Tousey Bed Fund	4,955 00	45 00
Sabin Woolworth Colton 3d Bed Fund	3,000 00	
Sommerville Bed Fund		10,191 60
	\$1,968,899 17	\$24,220 65
	Amount	Amount
Building Funds.	Invested.	Uninvested.
Free Museum Science and Art Dormitories and Memorial Tower, Second	\$391,831 08	\$17,919 40
Section	258,244 48	
Law School and Lot	582,024 18	
Randal Morgan Laboratory of Physics	125,540 40	2,133 00
Randal Morgan Laboratory of Physics Equip-	0,01	, 55
ment	20,288 68	2,824 86
Premises Thirty-third and Locust Streets	29,125 00	2,024 00
	-5,220 00	

Building Funds.		Amount Invested.		Amount	1.
New Engineering Department Build	ing	\$368,714	13	\$10,357 6	
New Engineering Department Building		#0//	10	,,,,,,	
ment		27,011	58		
New Medical Laboratory Building		668,880		\$317 6	io
New Medical Laboratory Apparatus.		20,221			
Dormitory, Third Section		50,580		502 8	8
Dormitory, Fourth Section		1,085	200	22,164 3	
Sun Parlor		7,867		22,104 3	
Sun Parlor, Ward G		7,007	7-	1,500 0	00
		21,776	11	2,500	
Isolation Ward		14,382			
New Laundry					
X-Ray Plant		25,000	00	IO C	00
Veterinary Building				10 0	_
	\$	2,612,574	59	\$57,729 7	77
Income Account. Am-	ount received. uding Balance	Amoun		Balanc	e.
Aug	gust 31, 1904,	Expende	ed.		
General Fund	\$1,901 86	\$1,901	86		
J. Herman Raht Fund	12 50	12	50		
Phi Kappa Sigma Fund	20 00	20	00		
Keble Fund	1,340 11	1,340	II		
Elliott Cresson Fund	212 12	212	12		
Tobias Wagner Fund	265 00	265	00		
Bloomfield Moore Fund	752 25	752	25		
Thomas A. Scott Fund	2,471 36	2,471	36		
John H. Towne Fund	13,551 54	13,551	54		
John Welsh Fund	2,380 66	2,380	66		
A. Whitney Fund	2,276 86	2,276			
Scholarship Fund	170 16	170	16		
Benjamin Franklin Scholarship					
Fund	526 30	526	30		
Samuel V. Merrick Scholarship					
Fund	140 40	140	40		
Class 1878 Scholarship Fund	100 00	100			
Matthew Baird Scholarship Fund	300 66	300	66		
E. Otis Kendall Scholarship Fund	100 00	100			
Adam Seybert Fund	2,714 78	2,714			
Chair Christian Ethics Fund	376 90	-11		\$376	90
Alumni Hall Fund	311 28	311	28		
Hector Tyndale Fellowship Fund	614 06	614			
S. W. Roberts Fund	55 74		74		
Wharton School Fund	18,280 58	9,379		8,901	38
Assyrian Fellowship Fund	9 48		48	-17-1	3-
Assyrian renowship runu	9 40	9	7		

Income Account.	Amount recincluding Ba August 31,	eived,	Amoun			Bala	nce.
Pepper Professorship of Hygiene	August 31,	1904.	Dapen	aca.			
Funds	\$3,041	52	\$3,041	52			
J. Rhea Barton Fund	1,748		1,748				
J. Gillingham Fell Fund		19		19			
Auxiliary Faculty Medicine Fund	1,201	-	1,201				
Leidy Chair Fund		33					
Botanical Garden Fund	208			33			
Department Biology Fund	200		208				
I. V. Williamson Fund	7 065	52		52			
George S. Pepper Residuary	1,967	44	1,967	44			
Legatee Fund	1,740	56	1,740	56			
Francis S. Pepper Fund	337	22	337	22			
Chair of Pedagogy Fund	II	88	II	88			
Henry Reed Prize Fund	125	97	24	00		\$101	97
Latin Prize Fund	173	17	40	00		133	17
Oratory Prize Fund	51	75				1	75
English Composition Prize Fund	34	83	8	00			83
Arthur Spayd Brooke Memorial							
Prize Fund	190	00	166	70		23	30
J. Warner Yardley Prize Fund	124			•		124	100
Class 1880 Prize Fund	300	100000				300	-
Allen Memorial Prize Fund		58	40	00		13	58
P. Pemberton Morris Prize Fund		14	-	00		-3	14
Joseph M. Bennett Bequest Fund		200	26,965				
Rev. C. P. Krauth Library Fund.	III			64		т8	05
Agricultural Library Fund		29		71			58
Dr. William Pepper Library							
Fund	562		361			200	
Tobias Wagner Library Fund	616		449	80		167	
J. B. Lippincott Library Fund	567		462			105	100
Isaac Norris Library Fund	273	49	84			188	50
Reese Wall Flower Fund	2,712	53	2,698	03		14	50
Veterinary Fund	963	94	963	94			
Houston Hall Endowment Fund.	23	74	23	74			
Dormitory First Section Fund	100	00	100	00			
Wistar and Horner Museum Fund	5	50	5	50			
Department of Law Fund	386	100	386				
John F. Frazer Fund	405		405				
Department of Hygiene Fund	5,498		5,498				
Thomas A. Scott Fellowship		2,000					
Fund	359	24	359	24	4.		
Graduate Department Fund.	2,340	90	2,212	65		128	25

Treasurer's Report.

Income Account.	Amount received, including Balance, August 31, 1904.	Amount Expended.	Balance.
A. S. Biddle Fund	\$958 30	\$958 30	
Simon Muhr Fund	291 28	291 28	
George L. Harrison Foundation.	27,768 26	27,768 26	
Stillé Memorial Library Fund	86 72	18 26	\$68 46
John Stewardson Fund	1,762 06	1,070 57	691 49
John White Field Scholarship		CARL STATE	
Fund	454 57	414.57	40 00
Pepper Hall Endowment Fund	2,723 00	2,198 00	525 00
University Fund for Women	20 00		20 00
Professors' Retiring Fund	1,189 40		1,189 40
Clark Chair of Assyriology Fund		4,275 85	
Thomas S. Stewart Scholarship	4,273 03	4,-70 -0	
Fund	200 00	200 00	
Robert Morris Scholarship Fund		250 00	
James Logan Scholarship Fund		250 00	
Garrett Scholarship Fund		467 08	
Thomas H. Powers Scholarship		4-1	
Fund		236 76	
Hartman Kuhn Scholarship Fund		250 00	
Charles Brinton Coxe Scholar-		23-	
ship Fund		200 00	
		177 50	
Cadwalader Scholarship Fund Powers Professorship Salary		-11 5-	
		40 00	
Rev. James S. Latta Scholarship		40 00	
Fund		200 00	
Louise Harrison Scholarship		200 00	
		240 00	
Fund Scholarshi		240 00	
Stephen Greene Scholarship		200 00	
Fund		1,512 50	
Blanchard Fund		60 00	
Suddards Fund		00 00	
Albert Wilson Memorial Scholar		90 00	
ship Fund		20 75	304 25
Spencer Morris Prize Fund		100 00	304 23
George Barnet Scholarship Fund			
J. B. Lippincott Veterinary Fun	d 3,312 50	3,312 50	
Eckley B. Coxe Scholarshi		225 00	
Fund		225 00	
Erskine Hazard Dickson Me		820 00	
morial Fund		020 00	
Martha Austin McDowell Schola		770 50	
ship Fund	. 112 50	112 50	The state of the s

Income Account.	Amount received, including Balance, August 31, 1904.		Balance.
Erskine Hazard Dickson Library			
Fund	\$46 20	\$46 20	
Mask and Wig Club Fund Department of Archæology and	45 00	45 00	
Paleontology Fund Randal Morgan Laboratory of	30 00	30 00	
Physics Fund	1,050 00	1,050 00	
Dormitory Second Section Fund	400 00	400 00	
Less Balances August 31,	\$152,719 63		\$13,764 68
1904	4,154 27		
Net Income	\$148,565 36		

FUNDS NOT FOR INVESTMENT.

	Amount recincluding Ba August 31,	lance,	Amot Expen		Balance.
General Fund		81	\$719	81	
Botanical Garden Fund		70	2,299	70	
Eugene Delano Prize Fund		00	50	00	
"J. S. H." Prize Fund	75	00	75	00	
Library—Philosophy Fund		16	55	16	
" Medieval Fund		43	8	43	
" Warren Fund	46	31	41	30	\$5.01
" Periodicals Fund	3,464	79	2,824	12	640 67
" Dante Fund	52	23			52 23
" Blue Book Fund	I	31	I	31	
" Botany Fund	374	19	352	7.00	21 56
" Old English Plays Fund	642	13	461		180 30
" Alumni Fund Biddle		486			
Library	1,765	69	1,603	97	161 72
" Music Fund		24		17	249 07
" Insurance Fund	6	68	6	00	68
Chemical Laboratory Apparatus					
Fund		48	73	65	1,544 83
Medical Bulletin Fund		14	2,043		7011
Contributions to Veterinary Fund			2,000		
New Gymnasium Fund	1,500	00	1,500		

Income Account.	Amount received, including Balance, August 31, 1904.	Amount Expended.	Balance.
Alliance Française Fellowship			
Fund	\$300 00	\$300 00	
College Settlement Fund	200 00	200 00	
Increase College Salaries Fund	12,150 00	12,150 00	
Special Geography Fund	87 68	13 08	\$74 60
Library Franklin Manuscripts			#7-1
Fund		83 40	
Naples Table Fund		50 00	
Woods Hall Table Fund		50 00	
Contributions Current Expenses	~	50 00	
		F 052 82	T 000 00
University Fund		5,073 82	1,000 00
Contributions Salaries Adminis-			
tration Library Fund		270 00	
Eckley B. Coxe, Jr., Fund		1,438 05	2,947 77
Mrs. E. W. Harrison Fund for			
Collection of Casts	26 27		26 27
Architecture Lecture Course			
Fund			9 92
" Equipment Fund	301 43	57 50	243 93
" General Fund	171 52		171 52
" Peabody Fund	12 42		12 42
Law School Monograph Fund	333 30	35 75	297 55
Needy Students' Aid Fund		4,138 00	1,050 00
University Publication Fund		2,291 58	1,651 01
Fellowship in History Fund		225 00	
Interest Account		1,226 59	
Frazer Debate Prize Fund		100 00	
Campus Fund		1,620 05	1,966 47
Contributions Current Expenses		2,020 -5	-12 47
Library Fund		473:54	155 45
Architecture Salary Fund		3,590 00	133 43
Architecture Fellowship Fund.		1,000 00	
		5,016 22	T00 42
Law Library Fund		5,010 22	100 42
Sundry Friends of the University			
Fund		40,000 00	1000
John C. Ropes Fund		0	4 95
University View Fund		398 00	777 00
College Apparatus Fund		1,659 55	20 05
James Truman House Dormitory	у		
Fund	. 50 00		50 00
Christian Association U. of P			
Fund	. 250 00	250 00	
Flanders Lecture Course Fund.	. 1,125 00	1,000 00	125 00
16			

Income Account.	Amount received, including Balance, August 31, 1904.	Amount Expended.	Balance.
Epiadiascope Fund	. \$100 00		\$100 00
Gymnasium Deficiency Fund			1,475 00
Frazier Special Medical Fund		\$193 64	656 36
Houston Hall Library Fund			710 09
Veterinary Insurance Fund			4,008 77
Less Temporary Loans			\$20,490 62 12,809 78
			\$7,680 84

UNIVERSITY TRUSTS ACCOUNT.

BALANCE SHEET.

Т	Balance August 31, 1904			\$193,071 01
	Donations for Investment \$379,496 31			
	Donations not for Investment 247,225 40			
	Donations not for investment 247,223 45	\$626,721	71	
"	Investments sold or paid	147,401	53	
	Income received	148,565	-	
46	Premium received	1,651	-	
**	Increase in Capital	112,223	09	
	Tuition Fees Transferred	5,116	64	
	Advances to Trusts by Administration	88,905		
	Amount received from Departments ac-	,,,		
	count Sinking Fund and Interest	9,910	53	
"		3,784		
"	Return Premium, Insurance of Veterinary	3,7 -4		
	Buildings, cancelled	4,047	27	
"	Sales of material	275	1000	
	Cash returned.	321		
	Cash returned	321	70	1,148,923 02
				\$1,341,994 03
(Cr.			# 101 1221 0
By	Investments made	\$516,286	15	
	Premiums and Accrued Interest	4,921	31	
"	Income transferred to Administration	102,884	98	
"	Funds transferred to Administration	49,637	45	
	Taxes, Water Rent, Repairs, Insurance	.,,		
	and Legal Expenses	9,209	12	
"	Cash Payments on account Trusts	29,790		
	Advances by Administration paid	83,396		
	Amount paid on account Sinking Fund	-3,3,-	,	
	and Interest	10,750	00	
	Amount paid on account Buildings,	10,750		
	Grounds and Equipment	349,247	21	
"	Loss of Capital, Veterinary Hospital	349,247	~4	
	Buildings, torn down	52,129	86	
	Amount paid on account loan Law	32,129	00	
	Library	2,000	00	
"	Loan, Department of Physical Education.			
100	Loan, Department of Physical Education	3,500	00	1,213,753 72
	7.1			
	Balance August 31, 1905			\$128,240 31

ADMINISTRATION.

GENERAL BALANCE SHEET.

Balance August 31, 1905		_	\$72,202 15
			771,910 52
"Transfer to Trusts	5,116	64	
"Students' deposits returned	14,250	81	
" Advances to Trusts	90,145	22	
" Prize Money paid	592	99	
" Current Expense Account	192,633	65	
" Salaries Administration	101,756		
By Salaries Educational	\$367,414	82	
Cr.			544,/
Cymnasian reconstruction	7,047		844,112 67
"Gymnasium fees	7,047		
" Sinking Fund	10,000		
" Students' Deposits received	18,810		
" Advances to Trusts returned	\$125,407 84,637		
Department of Repairs 6,636 65	Ø		
Dormitories 56,420 51			
Station 52,785 55			
Central Light and Heat			
Veterinary Hospital \$9,565 oo			
" Amounts received from Departments:			
" Funds not for Investment	49,637	45	
" Income from Trusts	102,884		
" Graduation Fees	8,408	36.5	
Dr. To Tuition Fees	\$368,082	25	
D.		-	
Bursar's Cash	600		\$69,196 31
Balance August 31, 1904	\$68,596	31	

ANALYSIS OF ADMINISTRATION ACCOUNTS.

ANALYSIS OF	ADMINI	STRATION	ACCOL)N15.
			Surplus.	Deficit.
College:				
Current Expense Ac-				
counts	,, ,			
Salaries, Education '' Administra-	209,894 32			
tion	11,559 58	\$291,914 13		
Tuition Fees \$		# > /> .		
Income				
		243,462 42		
	-			\$48,451 71
Department of Medi	cine:			
Current Expense Ac-				
	42,074 64			
	71,632 94			
" Administra-	. 0	any.		
tion	14,289 02	#raz 006 60		
Tuition Fees		\$127,996 60		
Income				
mcome	2,703 11	109,490 29		
				18,506 31
Department of Law				
Current Expense Ac-				
counts	\$12,220 31			
Salaries, Education	30,466 02			
" Administra-				
tion	6,635 69			
Transfer to Law Li-				
brary	5,116 64	#= 1.00 66		
Tuition Fees	\$42,638 70	\$54,438 66		
Income	1,345 06			
-	-,0-10	43,983 76		
				10,454 90
Department of Den	tistry:			
Current Expense Ac-				
counts	6,147 79			

			Surplus.	Deficit.
Salaries, Education '' Administra-	\$29,003 32			
tion	3,201 00	* 0		
Tuition Fees		\$38,352 11 34,170 33		#00
				\$4,181 78
Department of Hyg	dono.			
Current Expense Ac-				
count	\$2,264 56			
Salaries, Education '' Administra-	3,333 53			
tion	540 00			
Tuition Fees	\$50 00	6,138 09		
Income	8,899 69			
_	0,099 09	8,949 69		
	1		\$2,811 60	
George L. Harrison		1:		
Salaries, Education	\$16,209 73			
Income	16,209 73			
Department of Vete	erinary Medie	cine:		
Current Expense Ac-				
count	\$4,194 03			
Salaries, Education	4,375 00			
" Administra-				
tion	1,705 83	#- 06		
Tuition Fees	\$6,804 89	\$10,274 86		
Income	3,562 50			
-	370 3-	10,367 39		
	_		92 53	
Department of Vete Current Expense Ac-	erinary Hosp	ital:		+
count	\$7,715 39			
Salaries, Administra-	#111-3 39			
tion	5,646 41			
		\$13,361 80		
Receipts	\$9,565 00			
Income	443 94			
RILLY HIS TON		10,008 94		0.5
	_			3,352 86

Surp	lus. Deficit.
Department of Repairs: Current Expense Account	99
Central Light and Heat Station: Current Expense Account	\$4,234 26
SUMMARY:	
" Dentistry	
Department of Hygielle	92 53 66 99 \$3,971 12
Net Deficit	\$85,210 70
Dormitory: Receipts	\$56,420 51 619 30 798 84 \$25,418 14
	\$31,002 37

HOSPITAL.

GENERAL BALANCE SHEET.

Balance August 31, 1904		\$15,201	39
Receipts:			0)
From Investments sold or paid off	\$64,768 50		
" Premiums received	545 00		
" Donations for Investment	73,678 30		
" Donations not for Investment	133,698 16		
" Income from Invested Funds	48,495 69		
" Additional Capital	7,905 38		
" Receipts at Hospital	17,170 50		
" Interest on Bank Balances	64 26		
		346,325	79
Total Receipts	1		_
Expenditures:		\$361,527	18
Paid to Superintendent	\$128,460 44		
Investments made	110,383 40		
Accrued Interest paid	148 39		
Premiums paid	168 75		
Alterations and Repairs to Real Estate	10,169 36		
Legal Expenses	1,240 15		
Paid Woodward Fellow	430 58		
" Mrs. W. Romaine Newbold, Treasurer	20 00		
" Mrs. John L. Muckle, Jr Treasurer	20 00		
" Mrs. Edward Browning, Treasurer	60 85		
" Maintenance Pepper Laboratory	5,746 90		
" on account X-Ray Building	17,290 00		
" " X-Ray Apparatus	3,758 96		
" " Orthopedic Machine Shop	1,400 00		
" " Sun Parlor	6,667 91		
" " Isolation Ward	21,776 41		
" " New Laundry	14,382 04		
	14,302 04	322,124	14
Balance August 31, 1905			
3, 190,		\$39,403	=
Of which there are:			
Special Funds			
Funds for Investment			
24,220 65	\$39,403 04		
	#39,403 04		

HOSPITAL TRUST ACCOUNT.

Income Received from Trusts, from August 31, 1904, to August 31, 1905, Inclusive.

General Fund	\$16,560 72
Hahn Ward Fund	2,963 23
Alumni Ward Fund	451 32
Mrs. G. W. Norris Fund	514 73
Bement Fund	400 00
Ward Chronic Diseases Fund	7,114 81
Pepper Clinical Laboratory Fund	3 60
I. V. Williamson Hospital Fund	1,962 16
Children's Ward Fund	ı 66
Henry Seybert Fund	3,707 92
George S. Pepper Fund	2,973 57
Recto-Genito-Urinary Fund	202 42
A. M. Powers Fund	180 00
M. W. Eskens Fund	250 00
Dr. Agnew Hospital Fund	154 73
Dr. Agnew Bequest for Care of Children	1,832 34
Dr. Agnew Bequest for Maternity Hospital	50 00
Children's Medical Ward	40 00
Andrew C. Butler Fund	241 06
Ligonier Fund	1,997 32
Children's Orthopedic Ward Fund	700 00
A. Sydney Roberts Apparatus Fund	160 94
John White Field Bed Fund	227 30
Abby Willing Peters Bed Fund	227 25
Maternity Fund	1,553 98
Edward Rhoades Memorial Fund	166 42
Alfred Gustavus Baker Fund	250 38
Abraham and Mary Baker Fund	112 50
Mary B. K. Wainright Fund	24 00
Hamilton Disston Fund	120 00
Percival Roberts Fund	120 00
Thomas Harrison Fund	200 00
Langstroth Fund	30 00
Richard Heckscher Fund	
Woodward Fellowship Fund	873 o8 201 49
Wentz Bed Fund	201 49

University of Pennsylvania.

Thomas Elkinton Fund	\$212 50
George W. Vogel Fund	454 00
Diet Kitchen Fund	60 00
Emily M. Harrison Fund	200 26
Edward Roberts, Jr., Fund	200 00
Mary Kay Fund	200 00
Hiram Brooke Fund	225 00
Sinclair Tousey Fund	100 00
Sabin W. Colton, 3d., Fund	75 00

\$48,495 69

100 00

DONATIONS TO THE UNIVERSITY.

ARCHÆOLOGY AND PALEONTOLOGY DEPARTMENT.

Sommerville Estate, Maxwell, Deceased	\$17,919 40
ARCHITECTURE EQUIPMENT FUND.	100 00
Bodine, Samuel F	100 00
ARCHITECTURE GENERAL FUND.	

ARCHITECTURE SALARY FUND.

Rosengarten, Joseph G.....

"Anonymous"	\$100 00
Austin, H. O	10 00
Baker, Frank L	10 00
Baum, George C	10 00
Bissell, E. T	10 00
Bodine, F. L	10 00
Brockie, A. H	10 00
Clarke, J. O	10 00
Davis, Miss Martha	10 00
Davis, Paul A., 3d	10 00
DeGelleke, G. J	10 00
Dentz, J. G	10 00
Dick, G. A	10 00
Dowler, T. C	20 00
Duhring, H. L	20 00
Edmunds, F. D	10 00
Fisher, C. S	10 00
Frank, J. Horace	10 00
Githens, A. M	10 00
Grant, Charles C	10 00
Hays, William Charles	20 00
Heacock, J. Linden	10 00
Hill, M. Walter	10 00

Hokanson, O. M	\$10 00
Johnson, V. L	10 00
Jory, H. G	10 00
Karcher, W. T	10 00
Kast, M. G	10 00
Kintzing, L	10 00
Kleeman, Willliam	10 00
Kalbe, Arno	20 00
Kuenzli, E. O	10 00
Kropff, H. M	10 00
Leisenring, L. M	10 00
Magaziner, Louis	10 00
Medary, M. B	10 00
Miles, J. S	10 00
Mills, C. S	10 00
Neff, Conrad F	10 00
Oakley, T	10 00
Okie, R. B	10 00
Perot, R. L	10 00
Perrot, Emile G	10 00
Rommel, F. A	10 00
Ruhe, Wallace E	10 00
Rush, Louis H	20 00
Shrigley, A	10 00
Sinkler, J. P. B	10 00
Spaulding, W. H	10 00
Scull, William Ellis	100 00
Smith, Edward B	100 00
Stuart, P. G	10 00
Taylor, G. H	20 00
Trumbower, W	10 00
Ward, A. L	10 00
Wetterau, Carl	20 00
Wilcox, W. R. B	20 00
Willauer, A. E	10 00
Willing, J. E	10 00
Wright, H	10 00
Zantzinger, C. C	10 00
Ziegler, C. A	10 00

\$970 00

BLANCHARD FUND.

Blanchard, The Misses..... 25,000 00

BOTANIC GARDEN FUND.

Botanical Society of Pennsylvania	\$1,199	70
Magee, Miss Fannie S	250	00
Magee, Miss Eliza J	250	
Morris, John T	250	00
Morwitz, Joseph	100	
Presser, Theodore	200	
Rosengarten, Joseph G	50	00

\$2,299 70

CAMPUS FUND—THROUGH MRS. C. C. HARRISON.

Beckwith, Mrs. Harriet M	\$20 00
Brock, Mrs. R. C. H	25 00
Brooke, Mrs. George	10 00
Clark, Miss Frances	10 00
Coxe, Alexander B	50 00
Dana, Charles E	5 00
Dana, Charles E	1,000 00
Dolan, Thomas	50 00
Ellis, Rudulph	10 00
Fisher, Mrs. James Logan	10 00
Hacker, Mrs. Charles	50 00
Harris, Mrs. Mary Powers	84 50
Harrison, Mrs. C. C	50 00
Harrison, Thomas S	10 00
Heckscher, Mrs. Richard	10 00
Hinchman, Mrs. Lydia	15 00
Hutchinson, Miss Margaretta	10 00
Ingersoll, Charles Edward	10 00
Lesley R W	
McKean Mrs. Thomas	100 00
Morris Mrs. Lydia T	10 00
Paul Dr James	20 00
Paul James W., Ir	25 00
Paul Miss Mary W	10 00
Poilly Thomas A	25 00
Schweinitz Dr. George E. de	25 00
Smith, Mrs. Elizabeth T	5 00
Spencer, John Thompson	10 00
Valentine, John R	50 00
Winpenny, Mrs. J. Bolton	10 00
Winpenny, mis. J. Doctor	

\$1,719 50

CHEMICAL LABORATORY APPARATUS FUND.

Myers, Angelo....

\$500 00

CHRISTIAN ASSOCIATION—UNIVERSITY OF PENNSYLVANIA.

PENNSYLVANIA.		
Dickson, Mrs. Samuel		\$250 00
COLLEGE APPARATUS FU	JND.	
Brooks, James C	\$500 00	
Gerstley, Louis	250 00	
Gest, John M	79 60	
Kohn, Simon I. and Samuel	500 00	
Kribs, H. G	250 00	
Rosengarten, Joseph G	100 00	
		\$1,679 60
COLLEGE SETTLEMENT F	UND.	
Lewis, Lawrence		200 00
DORMITORY—THIRD SECT	TION.	
Caldwell, J. Albert	\$250 00	
Davis, John C. S	250 00	
Fletcher Estate, George A., Deceased	1,000 00	
Graves, N. Z	1,000 00	
Helme, William E	250 00	
Snellenberg, Samuel	500 00	
Stinson, Samuel B	250 00	
Wagner, John and Sons	500 00	
Woodside, John W	1,000 00	#-
		\$5,000 00
DORMITORY—FOURTH SEC	CTION.	
"Anonymous"	\$2,500 00	
Carruth, John G	2,500 00	
Greene, Stephen	5,000 00	
Harrison, Mrs. C. C	5,000 00	
Merrick, J. Vaughan	500 00	
Potts, Mrs. Joseph D., through Mrs. C. C.		
Harrison	5,000 00	
Rosengarten, Miss Fanny	500 00	
Rosengarten, Joseph G	500 00	
Smith, A. Lewis	250 00	
Stewart, Ralph C	1,000 00	
Townsend, Charles C	500 00	#
		\$23,250 00
DORMITORY—TRUMAN HO	OUSE.	
Miller, W. D		50 00

ENDOWMENT FUND, UNIVERSITY—THROUGH MRS. C. C. HARRISON.

MRD. C. C.		
Coxe. Eckley D., Ji	5,000 00	
Harrison, Alfred C	1,000 00	
Potts, William M	5,000 00	
Roberts, Miss Fannie A	1,000 00	
Roberts, Miss Eliza C	1,000 00	
Willing, Edward S		\$14,000 00
EPIADIASCOPE FUND.		
Palmer, Dr. H. G., Treasurer		100 00
ERSKINE HAZARD DICKSON MEMO	RIAL FUN	
Dickson, Mrs. Samuel		25,000 00
ERSKINE HAZARD DICKSON ME LIBRARY FUND.	EMORIAL	
Dickson, Mrs. Samuel		2,000 00
FELLOWSHIP—ALLIANCE FRA	NCAISE.	
Rosengarten, Joseph G		300 00
FELLOWSHIP—ARCHITECT	URE.	
Henszey, William P		1,000 00
FLANDERS LECTURE FUL	ND.	
Paul, J. Rodman, Treasurer		1,125 00
FRAZIER SPECIAL MEDICAL	FUND.	
		850 00
Through Dr. Charles H. Frazier		
GENERAL FUND.		
American Academy of Political Science	\$1,307 82	
Converse, John H	1,000 00	
Dolan Thomas	1,000 00	
Field Estate Eliza W. S. P., Deceased	4,719 81	
Frazier George H	100 00	
Harrison, C. C	100 00	
Houston, Samuel F	500 00	
Jeanes, Isaac W	100 00	
LeConte, Dr. Robert G.	100 00)
Leconte, Dr. Rossie		

Lewis, Morris J	\$100 00	
Lippincott, J. Bertram	100 00	
McCullough, Edmund H	100 00	
Magee, Horace	250 00	
Mask and Wig Club	180 00	
Merrick, J. Vaughan	100 00	
Mitchell, Dr. S. Weir	100 00	
Morgan, Randal	100 00	
Paul, Miss Mary W	300 00	
Rosengarten, Joseph G	100 00	
Several Friends of the University	40,000 00	
Sinkler, Dr. Wharton,	100 00	
Smith, Walter George	100 00	#(0 (-
		\$50,768 63
GYMNASIUM FUND.		
Powers, Thomas H		1,500 00
CURAL CHALL DEPOSITION		
GYMNASIUM DEFICIENCY	FUND.	
Burnham, Williams & Co	\$250 00	
Coxe, Eckley B., Jr.	100 00	
Dickson, Samuel	250 00	
Houston, Samuel F	100 00	
Jones, J. Levering	50 00	
Madeira, Louis C., Jr.	50 00	
Merrick, J. Vaughan	100 00	
Morgan, Randal	267 00	
Nichols, H. S. P.	10 00	
Pepper, George Wharton	25 00	
Wood, Richard	268 00	
Wood, Richard	5 00	1,475 00
		-,4/5
HOUSTON HALL LIBRAR	RY.	
Through Mrs. C. C. Harrison, Jr		710 09
INCREASE OF COLLEGE SAI	ARIES.	
"Anonymous"	\$400 00	
Garrett, Mrs. Walter	500 00	
Gest, John B	250 00	
Harris, Mrs. Mary Powers	2,500 00	
Lea, Henry C	5,000 00	
Powers, Thomas H	1,000 00	
Rosengarten, Miss Fanny	500 00	
Rosengarten, Joseph G	1,000 00	
Vauclain, Samuel M	1,000 00	

12,150 00

Treasurer's Report.	257
LAW SCHOOL MONOGRAPH FUND.	
Through Dr. William D. Lewis	\$296 30
LIBRARY, ALUMNI FUND—BIDDLE.	
Alumni Law Department	1,125 00
LIBRARY—BOTANY.	
Pepper, John W	125 00
LIBRARY—CURRENT EXPENSE.	
Castner, Samuel, Jr \$100 00	
College Alumni	
Dickson, Samuel 25 00	
Frazier, W. W	
Rosengarten, Joseph G	417 07
LIBRARY—MRS. FRANKLIN.	
Rosengarten, Joseph G	83 40
LIBRARY—SALARIES ADMINISTRATION.	
Rosengarten, Joseph G	270 00
MASK AND WIG CLUB.	
Mask and Wig Club	5,000 00
MEDICAL BULLETIN.	
Frazier, George H	
University Press 500 00	2,000 00
	2,000 00
NAPLES TABLE.	
Hitchcock, Miss F. R. M	50 00
NEW MEDICAL LABORATORY APPARATUS	
Woodward, Dr. George	2,947 50
NEEDY STUDENTS' AID FUND.	
Bonnell, George B	
Brown, William A 50 00	
Collins, Henry H	
Curtis Publishing Co	
Harrison, Mrs. George L	
17	

Hering, Walter E	\$250	00
Jeffries, J. H	125	00
Lewis, Lawrence	300	00
Lewis, Henry	250	00
Magee, Christopher, Jr	160	00
Moore, Samuel, Jr	50	00
Rosengarten, Miss Fanny	250	00
Rosengarten, Joseph G	153	00
Sternberger, Samuel	100	00
		_

\$4,188 00

NEW ENGINEERING DEPARTMENT.

Allen, W. F	\$100 00
Bancroft, John	1,000 00
Barney, Charles D. & Co	1,000 00
Beaumont, C. O	1,000 00
Bell, Samuel, Jr	125 00
Bioren, John S	100 00
Blabon, Edward L	250 00
Boltz, John H	250 00
Brill, J. G. Company	2,000 00
Brock, Arthur	1,000 00
Bromley, Edward	500 00
Brooks, James H. A	250 00
Bullitt, W. C	500 00
Castner, Samuel, Jr	1,000 00
Chandler Bros. & Co	250 00
Clark, Clarence M	500 00
Clark, E. W. & Co	1,000 00
Clark, E. W. Jr	1,000 00
Clothier, Isaac H	500 00
Clyde, B. Frank	1,000 00
Colton, S. W., Jr	1,000 00
Dannenbaum, Morris	100 00
Delany, Charles	250 00
Devlin, Thomas	1,000 00
Downs, Dr. and Mrs. Norton	10,000 00
Drexel, George W. C	500 00
Dwight, E. Waterman	1,000 00
Ely, Theodore N	100 00
Engineers Fraternity Mu Phi Kappa	500 00
Fairchild, Mrs. Samuel E	350 00
Fleisher, Simon B	250 00
Fouse, L. G	250 00
Frazier, W. W., Jr	500 00

Fuguet, Howard	\$1,000 00
Gilpin, Charles	1,000 00
Graves, Nelson Z	500 00
Griscom, C. A	2,500 00
Grundy, William H. & Co	250 00
Guggenheim, William	2,500 00
Hagedorn, Joseph H	50 00
Hale, Henry S	125 00
Harrison, William W	1,000 00
Hendrickson, S. A	500 00
Hinchman, Charles S	1,000 00
Hipple, Frank K	250 00
Jeanes, Henry S	200 00
Jones, J. Levering	1,000 00
Kohn, Simon I. and Samuel	500 00
Kremer & Strubing	500 00
Latta, Thomas L	500 00
Leas, David P	500 00
Lemoine, L. R	200 00
Lit Bros	500 00
Lit, S. D	200 00
Lloyd, Malcom	500 00
McCahan, W. J	3,000 00
McFadden, George H	1,000 00
McFadden, J. Frank	250 00
McGlinn, John	500 00
McIlhenny, John	500 00
McNeely, George H	1,000 00
McOwen, F	1,000 00
Mack, John M	1,000 00
Matthieu, John P	1,000 00
Merz, Leon	50 00
Morgan, George P	250 00
Moore, E. J	500 00
Morris, John T	1,000 00
Naylor, John S	125 00
Plumb, Fayette R	250 00
Ralph, J. D. H	250 00
Riley, Lewis A	250 00
Rosengarten, Joseph G	1,000 00
Rushton, R. H.	500 00
Scattergood, Thomas	250 00
Schmidt, Edward A	250 00
Shannon, J. Jacob	500 00
Snearer, Arthur W	300 00

Sheafer, Henry	\$500	00
State of Pennsylvania	30,000	00
Sugar Apparatus Mfg. Co	250	00
Sullivan, J., Sons Mfg. Co	500	00
Taylor, Hollinshead W	300	00
Taylor, Nathan A	500	00
Townsend, John W	250	00
Voorhees, Theodore	250	00
West, Harry F	100	00
Wetherill, J. Price	2,500	00
Williams, Ellis D	250	00
Wolf & Co	500	00
Wood, George	500	00
Wood, Stuart	500	00
Wood, Walter	500	00
		_

\$97,225 00

NEW MEDICAL LABORATORY FUND.

Downing, R. W	\$1,000	00
Francine, Dr. A. P	200	00
Grant, William S	1,000	00
Griffith Estate, Mary C., Deceased	5,000	00
Hancock, E. A	500	00
Henszey, William T	5,000	00
Horner, Samuel Jr	1,000	00
Isman, Felix	250	00
Ivins Estate, William, Deceased	1,500	00
McManes, Mrs. Catharine	12,500	00
Peirce, Harold	500	00
Potter, Dr. Thomas C	500	00
Rosengarten, Joseph G	1,000	00
Wampole, Henry K. &. Co	250	00
Wilson, Dr. Benjamin B	250	00
		_

30,450 00

PRIZE FUNDS.		
Delano :		
Delano, Eugene	50 00)
Frazier Debate:		
Frazier, William W., Jr	100 00)
"J. S. H.":		
Hitchcock, Miss F. R. M	75 00	C
Spencer Morris:		
Estate of Spencer Morris, Deceased	10,212 7	5

21,000 00

RANDAL MORGAN LABORATORY.

"A Friend to Science"	\$25,000 00

SCHOLARSHIPS.

George Barnet:		
Halstead, Mrs. David	\$5,000 00	
Cadwalader:		
Cadwalader, John	1,000 00	
Converse:		
Converse, John H	5,000 00	
Eckley B. Coxe:		
Coxe, Mrs. Eckley B	5,000 00	
Martha Austin McDowell:		
McDowell, J. Austin	5,000 00	

SOMMERVILLE COLLECTION.

Estate of Maxwell Sommerville, Deceased 19,364	nerville, Deceased 19,364 16
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UNIVERSITY PUBLICATION FUNDS.

Alumni Society	\$100	00
Burnham, George	50	00
Clark, E. W., Jr	100	00
Colton, S. W., Jr	100	00
Cuyler, Thomas DeWitt	100	00
Duane, James May	100	00
Harris, Joseph S	1,000	00
Jones, Thomas F	100	00
Joyce, William H	100	00
Lea, Henry C	100	00
McFadden, George	100	00
Riebenack, M	100	00
Rosengarten, Joseph G	200	00
Turner, William J	100	00
Wood, Stuart	100	00

2,450 00

UNIVERSITY VIEW FUND.

Ashbrooke, William S	\$25 00
Burroughs, J. H	50 00
Church, Arthur L	100 00
Clapp, B. Frank	100 00
Harrison, Alfred C	100 00
Harrison, C. C	100 00
Houston, Samuel F	100 00

#	
\$1,175	00
_ 10	00
2,000	00
100,000	00
111,000	00
50	00
	2,000

DONATIONS TO THE HOSPITAL.

BED FUNDS.

Moulton H. Forrest Bed: Forrest, Mrs. Emma L	\$600 oo	
Anna M. Powers Bed:		
Harris, Mrs. Mary Powers	300 00	
SABIN WOOLWORTH COLTON 3D, BED:		
Colton, S. W., Jr	3,000 00	
SINCLAIR TOUSEY BED:		
Tousey, Benjamin	5,000 00	
MAXWELL SOMMERVILLE BED (PRIVATE RO	ом).	
Estate of Maxwell Sommerville, Deceased		
	-1,-,-	\$19,091 60
CHILDREN'S MEDICAL W.	ARD.	
Austin, James S	\$200 00	
Auxiliary Committee, Ward G	200 00	
Crozer, Mrs. George K	200 00	
Griffith, Mrs. B.	200 00	800 00
		800 00
CHILDREN'S ORTHOPEDIC	WARD.	
Austin, Mr. and Mrs. James S	\$200 00	
Collins, Mrs. Henry H	200 00	
Conrad, Mrs. Thomas K	200 00	
Dickson, Mrs. Samuel	450 00	
Harris, Mrs. J. Campbell	200 00	
Moulton, Mrs. Byron P	200 00	
Page, Mrs. Joseph F., Jr	200 00	
Porter, Hon. and Mrs. W. W	200 00	
Saturday Club of N. J	200 00	
Townsend, Mrs. John W	200 00	
		2,250 00

GENERAL FUND.

OBITERIAL TOTAL		
Baldwin Locomotive Works	\$500 00	
Blanchard, Miss Anna	200 00	
Charity Ball Committee	2,200 00	
City of Philadelphia	375 00	
Henszey, William P	5,000 00	
Kay Estate, J. Alfred, Deceased	1,000 00	
McFadden, George H	2,324 25	
Morris Estate, Sarah P., Deceased	2,000 00	
Pennsylvania R. R	248 40	
Smith, Charles	25 00	
Sommerville Estate, Maxwell, Deceased	8,959 70	
State of Pennsylvania	55,000 00	
Welsh, Mrs. J. Lowber	150 00	
		\$77,982 35
ISOLATION WARD.		
State of Pennsylvania		21,776 41
State of Tennsylvania		
MAINTENANCE PEPPER CLI	NICAI	
LABORATORY.	NICAL	
LABORATORI.		
Through Dr. Alfred Stengel		6,978 64
MATERNITY HOSPITAI	<u>.</u> .	
Fields Estate, Eliza W. S. P., Deceased	\$4,719 81	
Newbold Estate, Mary Scott	5,000 00	
Newbold Estate, Mary Scott		9,719 81
NEW LAUNDRY.		-
State of Removingsia		10,000 00
State of Pennsylvania		10,000 00
CHIN DADI OD		
SUN PARLOR.		
McFadden, J. Frank	\$500 00	
McFadden, George H	1,675 75	
Stengel, through Dr. Alfred	594 71	
		2,770 46
SUN PARLOR—WARD	G.	
Auxiliary Committee, Ward G	\$250 00	
Browning, Mrs. Edward	250 00	
Women's Auxiliary Committee Dept. Surgery.	1,000 00	
Wollien's Auxiliary Committee Dept. Surgery.		1,500 00

Treasurer's Report.

265

WARD CHRONIC DISEASES.

Marshall Estate, Sarah, Deceased.....

\$37,527 00

X-RAY PLANT.

State of Pennsylvania

17,290 00

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, 1905, and found them to be correct and carefully 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, 1905.

Respectfully yours,

[Signed]

Lybrand, Ross Bros. & Montgomery, Certified Public Accountants.

7th February, 1906.

REPORT OF THE ASSISTANT TREASURER OF THE DEPARTMENT OF ARCHÆOLOGY.

FOR YEAR ENDING AUGUST 31ST, 1905.

RECEIPTS:		
Balance, August 31, 1904		\$6,945 83
Annual Dues		3,945 00
General Fund:		
Donations:		
Samuel F. Houston	\$1,000 00	
Calvln Wells	1,250 00	
Thomas Dolan	1,000 00	
Mrs. Lucy Wharton Drexel	1,000 00	
John Wanamaker	1,000 00	
Samuel T. Bodine	1,500 00	
John H. Converse	1,000 00	
Eckley B. Coxe, Jr	1,500 00	
Justice C. Strawbridge	500 00	
E. W. Clark	500 00	
Dr. William Henry Furness, 3rd	1,080 00	
Bernard N. Farren	50 00	
James F. Sullivan	100 00	11,480 00
Income from Endowment Fund: University of Pennsylvania Endowment Fund Interest, Mt. Washington Street Railway Co. Bonds Interest, New Mexico Railway and Coal Co. Bonds Interest, Seacoast Railway Co. of New Jersey Bonds	\$2,223 75 100 00 250 00 250 00	2,823 75
Egyptian and Mediterranean Fund: Donations: Mrs. John Harrison John Wanamaker E. B. Coxe, Jr Interest	\$100 00 3,400 00 500 00 6 37	
American Exploration Society: Donations: Calvin Wells	\$500 00 93	4,006 37 500 93

Department of Archæolo	gy	267
Building Fund :		4 . 0
Interest		\$17 82
General Ethnology Fund: Donations:		
Mrs. Lucy Wharton Drexel	\$1,450 00	
Samuel T. Bodine	500 00	
Eckley B. Coxe, Jr	500 00	
Dr. and Mrs. George B. Woodward	1,000 00	
Mrs. Charles W. Henry	1,000 00	
Samuel F. Houston	1,000 00	
William R. Philler	5 00	
Fisher Corlies Morgan	10 00	
Interest	6 15	
- Interest		5,471 15
Prize Essay Fund:		
Donations:		
George B. Bonnell	\$20 00	
H. G. Ward	20 00	
John B. Gest	20 00	
Miss E. C. Roberts	10 00	
Dr. Charles W. Burr	5 00	
Miss Emily Lehman	5 00	
Mrs. C. A. Griscom	5 00	
C. A. Griscom, Jr	5 00	
Miss Frances Clark	10 00	
Miss M. A. Burnham	25 00	
W. B. Whitney	5 00	
Mrs. Jones Wister	5 00	
S. P. Avery, Jr	10 00	
Miss Clara Comegys	5 00	
Mrs. Randall Morgan	25 00	
George C. Boldt	10 00	
Henry C. Lea	20 00	
Miss Sallie Sharpe	5 00	
W. W. Justice	5 00	
Mrs. Lucy Wharton Drexel	50 00	
Dr. C. H. Thomas	5 00	
Mrs. G. M. Conarroe	15 00	
Robert C. Ogden	20 00	
Miss Bertha Babbitt	5 00	
Mrs. G. B. Roberts	\$10 00	
John T. Morris.	10 00	
George F. Edmunds	10 00	
James Barr Ames	10 00	
George C. Thomas	10 00	
Interest	50	
	30	260 50

360 50

Babylonian Fund, Nippur:			
Donations:	e		
C. C. Harrison	\$250 00		
Samuel T. Bodine	250 00		
Clarence H. Clark	250 00		
George C. Thomas	125 00		
Samuel F. Houston	125 00		
Joseph S. Clark	50 00		
E. W. Clark, Jr	50 00		
C. M. Clark	50 00		
H. L. Clark	50 00		
Percy H. Clark	50 00		
Interest	6 22	\$1,256	22
Babylonian Publication Fund:		#2,-3	
Sale of Publications	\$52 26		
Interest	42		
		52	
C. Hartman Kuhn Fund, Interest			24
Carl Edelheim Excavation Fund, Interest		52	
Endowment Fund, Life Membership		100	
Lucy Wharton Drexel Medal Fund, Interest		52	7.0
Dillwyn Parrish Collection Fund, Interest		32	20
Boyd Publication:			
Donations:			
Mrs. Samuel F. Houston	\$100 00		
Calvin Wells	100 00	1145	
General Fund:		200	00
Sale of Slides and Photographs	\$17 35		
Sale of Publications	87 47		
Refunds	133 42		
U. of Pa., Prop. of Bal. in A. A. A. S. Fund.	50 00		
Receptions	46 49		
Interest on Deposits	58 74		
interest on Deposits	35 74	393	47
		\$37,691	22
DISBURSEMENTS.			=
General Fund:			
Printing Publications	\$709 80		
Supplies and Expenses	3,909 12		
Lecture Fees	242 00		
Repairs	108 76		
Coal	1,275 92		
Telephones	239 27		
Salaries	13,704 56		
		\$20,189	43

$Department\ of\ Archwology$	269
American Exploration Society	524 82
Egypt and Mediterranean Fund	3,900 00
Building Fund	174 82
General Ethnology Fund	6,394 17
Prize Essay Fund	389 40
Babylonian Fund, Nippur	1,081 36
Dillwyn Parrish Collection Fund	150 00
Boyd Publication Fund	200 00
Lucy Wharton Drexel Medal Fund	6 00
Balances, August 31, 1905:	
General Fund	
American Exploration Society 43 49	
Egypt and Mediterranean Fund 323 67	
General Ethnology Fund 27 41	
Building Fund	
Babylonian Fund, Nippur	
Babylonian Publication Fund 52 68	
C. Hartman Kuhn Fund 12 70	
Carl Edelheim Excavation Fund 174 34	
Endowment Fund	
Lucy Wharton Drexel Medal Fund 91 69	
Dillwyn Parrish Collection Fund	
4,688 12	
Deficit:	
Prize Essay Fund	\$4,681 22
	\$37,691 22

Respectfully submitted,

JANE M. McHUGH,
Assistant Treasurer.

We hereby certify that we have audited the accounts of the Department of Archæology of the University of Pennsylvania for the year ended 31st August, 1905, and found them to be correct, and the securities and cash on deposit were found to be in accordance with the books. The foregoing report of the Treasurer was found to agree with the books of account.

[Signed]

Lybrand, Ross Bros. & Montgomery, Certified Public Accountants.

PHILADELPHIA, 5th December, 1905.

