ANNUAL REPORTS

OF

PROVOST AND TREASURER

OF THE

UNIVERSITY OF PENNSYLVANIA

FOR THE YEAR ENDING OCTOBER 1, 1885.

PRINTED FOR THE UNIVERSITY.

1886.
REPORT OF THE PROVOST

To the Board of Trustees:

As Provost of the University I have the honor to submit the following Report for the past two years ending October 1st, 1885, the demand made upon my time and thoughts by desperate and prolonged illness in my immediate family rendered it impossible for me to prepare a Report last year.

The Board of Trustees, during this period, has lost by death no less than three of its members, Mr. Henry, Mr. Price, and Mr. Whitney.

The Hon. Alexander Henry was elected a Trustee in 1864, and from that time until the date of his death in December, 1883, gave faithful and valuable services to the University. As Chairman of the important Committee on Buildings, Estates and Property, his extensive experience and accurate habits of business were of special aid at a time when great changes were being made in the buildings and property of the University.

Hon. Eli Kirk Price became a Trustee in 1869, and constantly thereafter displayed an active interest in the University and a lively zeal in its welfare. Notwithstanding his advanced age, he lost no occasion of evincing his devotion, and often largely contributed to the success of important measures, notably by advocating, more than once, before the Legislature of the State, and before the City Councils, the applications for appropriations to the University Hospital. His intellectual strength was frequently shown down to the very close of his long life by the accuracy of his memory, the freshness and progressive character of his views, and the ability with which he enforced them. His attention to every detail of duty was scrupulous. For several years he filled the position of Presi-
dent of the Board of Managers of the University Hospital in addition to that of Trustee of the University, and at all times his work in Committee and in Board meetings was faithful and vigorous. This example of public-spirited activity, continued long after the period when many men withdraw from such labor, is a valuable legacy to the University.

George Whitney, Esq., whose death occurred in March, 1885, was for many years a member of the important Committee of Ways and Means, where his sound knowledge of Finance and of Business rendered his opinions highly valuable to his colleagues. Eminently unobtrusive, his opinions were as sagacious as his actions were liberal. The University owes to him the endowment of 'The Whitney Professorship of Dynamical Engineering,' founded in honor of his father, an eminent engineer. In addition to this, his contributions to the various departments of the University were large and numerous, and given with a cordiality which enhanced their value.

Four new members of the Board of Trustees have been elected.

The Hon. John Scott, formerly United States Senator from Pennsylvania, was elected April 1st, 1884, as successor to George Tucker Bispham, Esq., who resigned December 6th, 1883, on being elected a Professor in the Law Faculty.

Mr. James MacAlister, was elected in February, 1885, to succeed the Hon. Alexander Henry. Special importance attaches to this election; Mr. MacAlister holds the responsible position of Superintendent of Public Education, and it is the opinion of your Board that the incumbent of that office should be one of its members, thereby affording the strongest guarantee to the community that the obligations of the University to the City shall be faithfully discharged.

Mr. John C. Sims, Jr., was elected in February, 1885, on the nomination of the Central Committee of the Alumni, to succeed the Hon. Eli K. Price; and Mr. Henry H. Houston was elected May 5th, 1885, to succeed George Whitney, Esq.

The important post of Vice-Provost of the University, rendered vacant by the death of Dr. Krauth, was filled by the election of Prof. E. Otis Kendall, of 'The Thomas A. Scott Chair of Mathematics.' Elected a Professor of Mathematics in 1855,
his thorough knowledge of the College Department, as well as his admirable personal qualities, fit him in a pre-eminent degree for the post of Vice-Provost and Dean of the College Faculty; upon the judicious and able discharge of the administrative and disciplinary duties connected with these offices, depends largely the success of the College Department.

The reciprocal benefits derived by the City of Philadelphia and by the University, from the conveyance of certain lots of ground adjoining the University property, in consideration of the establishment of fifty Prize Scholarships, have rapidly become manifest. The notable additions to the resources of the University which hereby have been rendered possible, will be duly described. The Fifty Prize Scholarships have been all filled from the date of their establishment, and with but few exceptions the scholars have proved themselves worthy of the distinction. Owing to the very large number (thirty-eight) admitted in June, 1883, which was the first year, the number of vacancies in June, 1884, and in June, 1885, was comparatively small. On account of the inability of the students of the public schools to fit themselves for the entrance examinations as held under the new rules, it was decided to make a temporary apportionment of the Scholarships among the various Departments of the University, instead of restricting them to the College Department. Under this arrangement the vacancies were filled by distinguished graduates of the High School, and thus the community has lost nothing by the failure of City Councils to supply the Board of Education with the small additional appropriation wherewith to provide special instruction to enable students of the public schools to prepare for admission to the University. While, however, it was allowable that a certain number of the Scholarships should temporarily be allotted to the Medical, Law, or Veterinary Departments, it is intended that they shall in future be given to applicants for admission to the College Department, where the successful candidates have the great advantage of a full College Course. Certain essential changes in the requirements for admission to the University were postponed for several years, in the hope that the Board of Education would adapt the studies in the Grammar Schools and in the High School, to the proposed
University curriculum, and thereby give to the largest number the opportunity of competing for the Prize Scholarships secured by the City. Longer delay became at last impossible, and after an extended notice, duly given, and with full concurrence of the Board of Education, the proposed changes were adopted June, 1884. The time was well chosen; there were but few vacancies, owing to the admission of thirty-eight City Scholars in 1883. All of the applicants were graduates of the High School, with excellent records for scholarship; and in order to avoid disappointment or delay, your Board authorized the admission of four more than the allotted number, thus making the actual number of City Scholars at the present time fifty-four.

It is evident, however, that a definite arrangement should be made, without delay, which will prevent a repetition of this state of affairs, and enable students of the High School, at the close of their first or second year in that Institution, to become candidates for admission to the University. Unless this be done promptly, the community will suffer a serious loss, through the inability of the students of the Public Schools to avail themselves of educational privileges greater than are offered in any other city. The requisite additions to the curriculum of the High School may be readily effected at small cost, and as the requirements for admission to the University in all probability, will remain unchanged for a considerable period, the additions may be made with the assurance that they will not prove the beginnings of more extensive demands.

It is, indeed, a matter of great importance that there should be some general agreement between the leading Colleges of America, as to the requirements for admission. As schools which prepare students for College are constantly increasing in number, and in the area over which they are distributed, it becomes all the more urgent that a certain stability on this point should be attained. It takes several years for the work in a large school to become thoroughly adapted to the requirements for admission to the Colleges for which its students are preparing; it may be assumed that the frequent and extensive changes of recent years, must have severely taxed the resources of these schools, and interfered with the efficiency of their in-
struction. There is reason to hope, however, that less change and less variety will occur in the future. Unless the conditions of life in America become greatly altered, it would seem that the requirements for admission to our Colleges have now reached a standard as high as it is desirable for them to be carried. There can be no question as to the necessity of more prolonged and more thorough work in the professional departments, such as those of Law and of Medicine, to which students pass after being graduated in the College. If, however, the age at which young men are to be finally admitted to professional life is not to exceed twenty-four or twenty-five years, (and there are many cogent reasons why this average should not be exceeded;) and if three or four years of post-graduate study are requisite, it is evident that the Colleges should arrange their requirements for admission so that students of an average age of seventeen or eighteen may readily enter. If such a course were adopted and larger inducements held out to pursue post-graduate courses by students who desired advanced instruction, it would be possible to secure a College education for a far larger proportion of the youth of America.

What seems to be needed, therefore, is not any further advance of the standard for admission to College, but a fuller development of the system of residence after graduation, for the prosecution of advanced studies, or of original investigation. This demands the establishment of Scholarships, tenable for one, two, or even three years. Some of them may be unendowed, bearing merely the title, and the free access to academic privileges, but for the most part they should be endowed, so as to yield not less than $500 per annum, a sum barely sufficient for the support of the scholar, in addition to the necessary outlay for books, etc.

The conditions under which such Scholarships may be tenable must vary, but in all cases they should demand thorough preparation, earnestness of purpose, some method for testing the actual progress of work, and suitable provision for the publication, in the name of the University, of valuable results. By a recent action of your Board, the conditions have been determined under which Scholarships, endowed and unendowed, may be established here; and already there have been estab-
lished five unendowed Scholarships in the Wharton School of Finance and Economy.

While this class of Scholars, or of Resident Post-graduate students, has been slowly gaining recognition here and at other American Colleges, it has been suitably provided for only at Johns Hopkins. It constitutes to-day one of the most urgent needs of the University.

It is proper here to mention the recent endowment of a Fellowship in Physics by John Tyndall, D.C.L., LL.D., F.R.S., F.G.S., F.C.S., Professor of Natural Philosophy in the Royal Institution of Great Britain. The documents relating to this fine endowment will be found at page 39 (Appendix II). The fund which provides for this and for similar endowments in Harvard and in Columbia Colleges, comes from a fund most honorably earned by Prof. Tyndall by delivering in this country in the years 1872–1873 a course of admirable Lectures. He generously resolved to devote the proceeds of these lectures to the encouragement of advanced study and of original research in Physics, by establishing scholarships for able and deserving students, in this branch of Science. Not only the magnitude of the gift, amounting to $32,400 in all, but the unselfish devotion therein to the pure interests of science, imparts especial importance to this endowment which, as long as our University stands, will not only stimulate the recipients of Dr. Tyndall's bounty to put forth all their best powers as long as their names are linked with his, but will also prove an enduring example to be followed by friends of our honored University.

As important changes in the organization of the College Department of the University, which have been cautiously made during the past five years, have now reached an apparently satisfactory position, it is desirable to give, concerning that department, some details, for which I refer you to the following Table:
## COURSES OF STUDY IN THE COLLEGE FACULTY.

[Including all extra (Saturday, Machine Shop, etc.) hours.]

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<th>SUBJECT OF STUDY</th>
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<th>Course in Philosophy I.</th>
<th>Wharton School Course I.</th>
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**COURSES IN ARTS:**

1. Fresh.
2. Soph.

**COURSES IN PHILOSOPHY:**

1. Fresh.
2. Soph.

**WHARTON SCHOOL COURSE:**

1. Fresh.
2. Soph.

**SCIENTIFIC COURSE:**

1. Fresh.
2. Soph.
4. Senior.
5. Post-Senior.

### Course Hours:

| Course                  | Fresh I | Fresh II | Fresh III | Fresh IV | Fresh V | Soph I | Soph II | Soph III | Soph IV | Soph V | Junior I | Junior II | Junior III | Junior IV | Junior V | Senior I | Senior II | Senior III | Senior IV | Senior V | Post-Senior I | Post-Senior II | Post-Senior III | Post-Senior IV | Post-Senior V |
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There is no disposition to modify the position hitherto held by the Trustees and Faculties of the University as to the superior advantages of carefully devised elective groups of studies, wherein each student is permitted to select, not isolated subjects, but a group of subjects or parallel courses.

The degrees now given in this Department of the University are that of Bachelor of Arts (B.A.), awarded after a four years' course, in which both Latin and Greek are comprised, though at the close of the Sophomore year, the student is allowed various privileges of choice, among which is the substitution of German or French for Greek or Latin; that of Bachelor of Philosophy (Ph.B.), awarded after a four years' course, which in the first two years comprises Latin, but not Greek, and which in the last two years is pursued either in the Wharton School of Finance and Economy, or in the School of Biology; and, lastly, that of Bachelor of Science (B.S.), awarded after a five years' course, the first two years of which are devoted to general studies, including French and German, but not Latin or Greek, while the last three years in the Towne Scientific School are occupied with the special studies which entitle the student to receive not only the degree of B.S., but in addition the professional degree of Civil Engineer (C.E.); Mechanical Engineer (M.E.); Mining Engineer (E.M.); Analytical Chemist, and Architect.

The University thus gives a degree for a course containing both Greek and Latin; for a course without Greek, but with Latin; and for a course without either Greek or Latin. But in every case the degree is appropriate to the course taken, and the studies omitted are fully substituted by others more suitable to the special course.

It may be observed here that the question of the position of the study of the classics in American Colleges is no longer as to whether a University degree shall be given at the close of any course which does not include both Latin and Greek, for this is settled in the affirmative; but it is now limited to the particular point, whether the degree of Bachelor of Arts (B.A) shall be given for such a course.

It is difficult to show why this should not be done, in theory at least, but the practical difficulty lies in the fact that the
study of English, French and German, as now conducted in the preparatory Schools, can not replace for the purposes of mental discipline, the traditional, thorough drill in Greek. The advocates of the modern languages, as an elective substitute for the classics, should see to it that the method of studying the former acquires equal vigor, uniformity, and thoroughness with that which has been developed in the case of the classics by centuries of continued application.

The experience of all Professors of English in American Colleges is that students do not come to College adequately prepared for profitable instruction in advanced studies of English. In French and German, the case is usually even worse, in many instances the student, who elects one or both of these languages as substitutes for the classics, has scarcely advanced beyond the rudiments of either tongue. It is needless to say, that before the proposition to permit an election between Greek and modern languages in the requirements for admission to the course leading to the degree of B.A. can be discussed fairly, it must be shown that the preparatory study of French or German has been as honest, thorough, and systematic, as that devoted to Greek. When this becomes the case in the best preparatory schools, it will be possible to determine practically the relative merits of the two studies as means of mental training. The University has been making progress in this direction.

The standard of English was raised in 1884, and the work in that department rendered more thorough. At the same time an examination in both French and German* was instituted for all applicants for admission to the courses leading to the degrees of Ph.B. and B.S. The immediate result was a reduction in the number of applicants at the June examinations, in 1884, a reduction which has not yet been entirely overcome; while, as already stated, no students from the Grammar Schools of Philadelphia, or from the lower classes of the High School, have been able to pass this examination in competition for Prize Scholarships. This effect will be but temporary, however; experience has shown that Preparatory Schools may be counted

upon to support the College in any well matured advancement or improvement in the standard of instruction. On the other hand it has done away with the serious inconvenience resulting from the attendance of numbers of students, unequally and imperfectly prepared in German and French, and has enabled the study of those languages to be placed on a more effective basis.

It is important to note that, while special care has been taken to enlarge the facilities for studying English, the Modern Languages, and the Natural Sciences, there has been at no time a more gratifying activity in the study of the Classics.

The course in Philosophy (see Table, p. 9) leading to the degree of Bachelor of Philosophy, merits particular mention. Although designed especially for students intending to become physicians, an examination of this course will show that it offers great advantages and attraction for the general body of students. There can be no more useful education than the training of the powers of observation, comparison, and description, which is secured by a close study of Botany, Comparative Anatomy, and the various branches of Biology. The new Laboratory Building, erected for the use of this Department, contains a Lecture-room, two large Laboratories for Undergraduate Biological work, rooms for Zoological and Botanical collections and Libraries, rooms for Photography, Laboratories for the Instructors and for special work by Fellows of the University pursuing original investigations. The course has been carefully organized under the supervision of Dr. Joseph Leidy, who has made arrangements by which he is enabled to devote his whole time to his duties at the University, as Professor of Anatomy in the Medical Department, and as Director of this new School of Biology. The advantage of having this work under the personal control of this eminent teacher and investigator cannot be overestimated.

Not only does this new Department provide valuable additions to the elective courses open to the Undergraduates, but it supplies a long recognized want, by affording facilities for advanced students and investigators to pursue special lines of scientific work.

It is also noteworthy that this Department aims at providing instruction in Biology for women who are preparing to study
medicine, or who desire systematic training in this subject. In this way, as in all others, the University strives to adapt itself to the requirements of the age, and to meet the demands made upon it as the centre of the intellectual and scientific life of the community.

In this Department, one of the tables at the Zoological Station at Naples has been maintained, through the liberality of Dr. Horace Jayne, for Fellows of the University desiring to pursue Biological investigations under the direction of the distinguished Dr. Dohrn. During the past year this table was occupied by Dr. Charles S. Dolley (University of Pennsylvania), and on his resignation in June, 1885, to accept the positions of Assistant Professor of Natural History, in Swarthmore College, and of Instructor in Biology in the University, Dr. William Patten (Harvard and Leipzig) has been appointed for the remainder of the year.

At the Commencement in June, 1884, there were awarded for the first time, the professional degrees in the Towne Scientific School. This marks the attainment, on the part of this Department, of its full functions. The course extends over five years, but, as already stated, the special work in the Towne School begins with the third year, the two previous years having been spent in acquiring a general education. Those students who, at the close of the second year, do not desire a strictly professional course, have the option of entering the School of Biology, or the Wharton School of Finance and Economy.

Owing to the advanced standard for admission and the rearrangement of studies recently effected, the three years in the Towne Scientific School (Junior, Senior and Post-senior classes), now afford the theoretical and practical instruction needed to fit its graduates for full rank in their respective professions. It may be confidently expected that graduates of other Institutions will embrace the advantages, almost unequalled, offered in this three-year Scientific course.

Certain lesser changes have been found desirable in the instruction in the Wharton School of Finance and Economy, but in general the work has been continued along the lines indicated in previous reports. Fuller experience has confirmed the opinion that this course is a highly valuable addi-
tion to the University, and that it affords special facilities, not to be found elsewhere at present, for the large class of young men who look forward to business or commercial pursuits, to the study of the law, to journalism, or to public life.

An interesting Report on the operations of the Wharton School has recently been received from Joseph G. Rosengarten, Esq., as Examiner and Visitor, by appointment of the Court of Common Pleas of Philadelphia, in accordance with the conditions of the creation of this foundation. It commends the sagacious provisions of the foundation, and the good work already done by this School, and points out the necessity for increased endowment, to enable the School fully to meet the demands for this special education.

The number of students who have elected this course has not yet been large, but it has included some of the most earnest students in attendance at the University, and has already drawn students from parts as distant as Japan. Originally intended to occupy a somewhat elementary position, experience has shown that the subjects taught in this course hold out a strong attraction to advanced students, and to graduates who desire to pursue original investigations. Hence the Faculty were led to request your Board to establish five unendowed Fellowships in connection with this course, a request which, as already stated, was granted in June, so that applications for these positions were received during the summer and two of them were filled.

Unfortunately no funds have yet been contributed to the endowment of these Fellowships, and much of their value is lost by rendering them available only to young men of independent means. What is urgently needed not only here, but, as I have already said, in other Departments of the University also, is a number of endowed Fellowships, enabling students of recognized ability and with adequate preparation, but in straitened circumstances, to prosecute advanced studies after graduation, and fit themselves for positions and duties of the highest public value.

In a former Report, in 1883, an account was given of the Faculty of Philosophy, established in 1882, which supplements and completes the duties of the several Faculties in regard to
advanced students, while at the same time the privilege of earning the degree of Ph.D. is an additional inducement to remain in the University.

The general condition of the College Department is thus seen to be highly satisfactory. The number of students increases steadily, and quite as rapidly as it is possible to provide accommodation for them.

That which is most gratifying is the decided improvement in the tone of this Department, manifested by the general conduct of the students, by their cordial relations with the older students in the other departments, and by the fewer instances of serious infractions of discipline. Most of this must be attributed to the admirable composition of the College Faculty, and to its wise and healthy influence upon all; to it the warmest praise is due for fidelity and zeal, individually and collectively, not only in the discharge of laborious duties, but in the advancement of the interests of the students and of the University.

The question as to the propriety of making the attendance upon the daily religious services in the College Department voluntary instead of compulsory, has recently been carefully studied by the College Faculty. The objection is often urged, and even by those most anxious for the cultivation of earnest religious feeling in the University, that the enforced attendance of all students upon religious exercises is hostile to the true spirit of religion, and lessens the benefit received by those really interested, without any advantage to those who are unwilling attendants. It is, however, the deliberate opinion of a large majority of the University Faculty, that the general result of the present system is beneficial; that the students in general are affected favorably by these services; and that to give to them a merely voluntary character, would operate injuriously on the moral tone of the Institution. Hence the desire of the Faculty is, as far as possible, to render the Chapel services even more earnest and attractive, so that a deeper and more wide-spread interest in them may be awakened among the students. It is believed that this result is now being attained, so that it is, more than ever, the determination
of the Faculty to retain this distinctively Christian and religious feature of the University. It must be remembered, however, that the services are conducted so as to give offence to no one. In the first place, they are entirely unsectarian, consisting as they do of the reading of a brief portion of the Scriptures and the offering of a prayer, and are conducted by the clerical members of the Faculty, who represent different religious denominations. Again, it is the custom to excuse from attendance on Chapel any student who feels scruples of conscience against such attendance; or who presents a request upon adequate grounds from parents or guardians.

It may not be amiss to notice here the efforts which have been made for several years past by a branch of the Young Men’s Christian Association to cause a more active religious feeling among the students, and more especially in the Medical and Dental Departments. While it has not seemed advisable, either for the general interests of the University, or of this special religious work, to accord to these efforts any official recognition, they meet with the cordial sympathy and approval of the authorities of the University, who have uniformly extended to those in charge of this movement the needed accommodations.

Another influence tending to elevate the standard of conduct throughout the College, is the development of the Department of Physical Culture. The organization of this department was completed by the election, December 2d, 1884, of Dr. J. Wm. White as Director of Physical Education. The duties of this Director, who has a seat in the College Faculty, are to deliver annually a course of lectures on the theory, objects and methods of Physical Culture; to direct and supervise the systematic physical examination of all students, and the character and amount of physical training proper for each; and to exert a general superintendence of the exercises approved by the Athletic Association. Dr. White has devoted himself zealously and disinterestedly to this work, without any compensation as yet from your Board. The University is under obligation to him and to the active members of the Athletic Association, particularly to Samuel Powel, Jr., Esq., for the large amount of time and personal exertion bestowed by them in se-
curing the rapid development of the facilities for physical training and athletic sports. The plan of organization of the Athletic Association* has proved satisfactory and practical. A considerable amount of money has been secured; the large tract of ground placed at its disposal by the Trustees, has been suitably enclosed, and has been well laid out with a running track, and grounds for base-ball, foot-ball, and tennis. The Intercollegiate Athletic Sports were for the first time held on this ground on October 10th, 1885, and the great advantage to the University of this new possession was evident.

A large room (40 x 50) has been fitted up as a Gymnasium, and thus good accommodations will be afforded until a building, specially constructed for this purpose, can be obtained.

It is with satisfaction that the continued prosperity of the Medical Department is reported. The good which it was believed would follow the courageous course of the Faculty in cutting loose from traditions deemed injurious, and in inaugurating a system of honest and thorough medical teaching, has been realized. The standard of the scholarship of the students steadily improves, especially in the grade of preparatory education, and in the proportion of graduates among them. Students of the best class from distant parts, which in former years but rarely sent students to the University, are becoming numerous. Proofs are accumulating to show that this position taken by the University is exerting a powerful and widespread influence on the medical profession, and on medical schools. Everywhere the tendency is seen to adopt as far as possible the improvement and reform introduced by the University. It becomes more and more evident that the medical schools of the country must in future be divided into two distinct classes—those of the first rank, which will provide a course of instruction thoroughly adapted to the needs of the best students, and to the rapidly advancing state of medical science; and those of the second rank which, however celebrated may be their teachers, lack the thoroughness and methods which alone can meet the demands of the age. Under these circumstances, the duty of the University, whose position is

* Annual Report of the Provost and Treasurer, 1883, p. 64.
conspicuous among the few medical schools of the first rank in America, is manifest. There must be no halting in the forward movement; no exertions and no expense can be spared which may add excellence and completeness to its system of instruction. The most patent need is that the session of the Medical School shall be made to occupy the full academic year, from September 15th or October 1st to June 1st. This added time will accomplish important results. It will enable the carefully graded course of instruction to be so modified that the daily work required of the student may be reduced; a matter of great consequence, where the roster is overburdened as it is at present. Certain subjects can be taught more thoroughly; and the effect of keeping the student steadily employed throughout the year, will be far more valuable than the mere amount of time would indicate—about six weeks—which is actually added to the present session. Finally, an important and very desirable change can be hereby brought about in the Commencement Exercises of the University. So long as there are two distinct Commencements, one for the Medical and the Dental Departments, in May, the other for the College and the Law Departments, in June, it is impossible to render both occasions equally interesting, or to attract many graduates from a distance at both of these dates. When, however, it becomes possible to have the Commencement Exercises of all the Departments in one week, together with the various Alumni meetings and entertainments, the Class-day Exercises, the College sports, and other interesting and historic celebrations, can we doubt that a widespread interest will spring up among the graduates of the University and the friends of the graduating classes, which will render Commencement Week a genuine University festival?

Attention has been already called to the rapid development of what was formerly the Course Preparatory to Medicine into a complete course in Biology, with the admirable advantages furnished by the new Biological Laboratory. This subject deserves especial consideration from those about to select a college course, with the expectation of subsequently entering upon the study of medicine.

The Medical Faculty, with large liberality, has for some
years maintained a number of Free Scholarships, which are awarded to the number of six annually, to the successful candidates in a competitive examination. The opportunity thus offered is eagerly sought by a number of applicants each year. The brilliant success attained in their studies by a majority of the fortunate winners of these prizes, suggests emphatically the desirability of having a number of endowed scholarships in the Medical Department; and it would seem not unlikely that such endowments would be one of the most attractive means whereby a moderate sum can be devoted to the promotion of medical science, and to the assistance of deserving and needy talent.

Allusion has already been made to the fact that in order to render as valuable as possible the Prize Scholarships established for students of the Public Schools of Philadelphia, the Medical Faculty consented to receive temporarily on this foundation two students annually, chosen by competitive examination from among the graduates of the Central High School, who may apply for these Scholarships.

The facilities for instruction, and the arrangements for the convenience of the students, are continually improving. Under the personal supervision of Dr. S. Weir Mitchell and Dr. Harrison Allen, extensive additions have been made, to the suite of rooms occupied by the Physiological Laboratories and to the collection of apparatus for class demonstration, and for laboratory experimentation. A generous donation of $15,000, made by the late J. Gillingham Fell, Esq., has been received from his executors, and a portion of it devoted to enlarging the facilities for physiological research; and valuable gifts of apparatus have been also received from Dr. S. Weir Mitchell, who, as Chairman of the Committee on the Medical Department, has been prominent in all movements for the advancement of this branch of the University.

The Stillé Medical Library, founded by Alfred Stillé, M.D., LL.D., Emeritus Professor of the Theory and Practice of Medicine, grows steadily in size, through constant gifts from its founder, and in practical value from the regularly increasing use made of it by the students. During the past summer a spacious reading-room, adjoining the Library, has been handsomely fitted up for the use of the students of the Medical,
Dental, and Veterinary Departments. The advantages and equipment of the Medical School appear now to leave but little to be desired; and it is to be hoped that the generosity of its many friends will be devoted to the endowment of scholarships or to the creation of Special Funds, for particular Chairs, such as that of Chemistry, the support of which constitutes a severe tax on the Faculty, who have made many voluntary sacrifices to ensure the full development of an advanced system of instruction.

A certain amount of Vivisection, or experimenting on living animals, is apparently inseparable from the prosecution of researches in physiology and therapeutics. After all that has been said for and against it as a proper means of investigation, the fact remains that the concurrent testimony of the majority of those in all parts of the world who alone are competent to pronounce on the subject, justifies the assertion that without the use of vivisection the progress of knowledge in these two vitally essential branches of science would soon be arrested. Under these circumstances it becomes the duty of the University to countenance the employment of this painful means in the discovery of truth, but it needs no argument to show that it is equally her duty to impose such rules and restrictions as will guard effectually against the least abuse of this responsible privilege or against the infliction of needless pain, or avoidable suffering in its exercise. The Trustees of the University, have, therefore, recently adopted a series of regulations governing the practice of vivisection. (See Appendix.) They are practically identical with those adopted by the German Government, and in force in all the medical schools of Germany. It is safe to say that at all times the most humane care has been exercised in regard to vivisection as practised here; and it is confidently felt that the official publication of the stringent regulations under which alone it can be used, in the future, will satisfy the community of the conservative and humane position taken by the University upon this important question.

The operations of the University Hospital are still conducted in the same prudent and yet liberal manner as in the past. Owing to various causes the applications for admission
to the wards, both medical and surgical, throughout the year, has been unprecedented. In consequence, the expenses have been unusually heavy, amounting to $36,488.57, while the income from all sources was only $35,298.55; a deficit of $1,180.02. During the past year a careful investigation was made into the manner in which the Managers of the Hospital have complied with the obligations to the State of Pennsylvania and to the City of Philadelphia, assumed by the Trustees of the University at the time of receiving the grants of land from the latter and of money from the former for the erection of the Hospital Buildings. The result is in the highest degree satisfactory and creditable to the administration of the Institution, it not only shows that every obligation had been complied with, but that the Board of Managers* had succeeded, year after year, by continued exertions and by personal liberality, in meeting the annual deficit, while at the same time steadily increasing the permanent fund, and effecting substantial improvements in the condition of the property. The utmost confidence may be felt by the Board of Trustees in the administration of this important branch of the University under the present system, and the disinterested labors of the Board of Managers in the cause of Charity and of Medical Science may be regarded with gratitude. Nor should mention be omitted of the Board of Lady Visitors,† who supplement the Managers in attention to many important details of administration, and who have rendered most valuable assistance in improving the service and condition of the Hospital. By the adverse decisions of the courts as to certain specific points in the form of charter applied for by George Vaux, Esq., the executor of the will of the late Eleanor D. Long, the community has lost the benefit of an admirably planned Institution for the training of girls, as nurses, and for other domestic positions, which, although an independent institution, would have

* This Board is composed of eighteen members elected by the Board of Trustees, seven of whom are nominated by the Contributors, five by the Board itself and three each by the Faculty of Medicine and the Medical Alumni.

The funds of the Hospital, as well as the grounds and buildings, are held by the Trustees, but the entire income is paid over to the Managers, who have full authority in the administration of the Hospital.

† This Board is composed of twenty-four members.
been conducted in connection with the University Hospital in such a manner, that those inmates of the "Long Institute," who were destined to be nurses, would have enjoyed not merely the opportunities of training in the Hospital wards, but also of special courses of instruction under University teachers.

There is no change of general importance to be reported in connection with the Law Department. The thoroughness of the instruction and the success of the school have been fully maintained; but there is evidently a growing feeling among its graduates and friends in favor of the view advocated in a former Report (1883, page 34), viz: that an adequate endowment should be secured in order to provide additional accommodation and enable the Faculty to introduce such modification in the system of instruction as will place this department of the University in the front rank of American Law Schools.

In order to afford an opportunity to graduates of this or other Law Schools, who wish to pursue an advanced study of the Roman Law and of the Common Law, a Post-Graduate course, extending over two years, was established in 1883 under the charge of Prof. James Parsons. Classes of limited size have entered upon this valuable course under the immediate supervision of that Professor, to whose disinterested zeal in the cause of higher legal education the establishment of this course is due.

It is with sincere satisfaction that attention is invited to the flourishing condition of the Dental Department. It is evident that the high standard of instruction insisted upon by the Faculty, and the admirable facilities provided by the University, have given to this department a position deservedly high in the confidence of the profession, and is steadily extending its influence and its reputation throughout this country and Europe. Important improvements have been made in the curriculum, and an examination, preliminary to admission, has been established, which, although not yet sufficiently comprehensive in its requirements, cannot but exert an excellent influence upon the composition of the classes. The number of students in attendance has increased in a gratifying manner, reaching 112 for the two classes during the last session, and representing 20 of the United States of America, and 16
different countries. Prof. Truman, Secretary of the Dental Faculty, calls attention to the fact that Dr. Willoughby D. Miller, a graduate of this Department, of the class of 1879, and now residing in Berlin, was elected, in 1884, a Professor in the new "Dental Institute of the Royal University of Prussia;" and Prof. Truman adds that, while the conferring of such an honor upon an American is wholly unprecedented in the history of German Universities, the fact that it is in this case worthily bestowed will be acknowledged by all who are familiar with Dr. Miller's investigations of micro-organisms, connected with dental caries. It is a subject of congratulation that the efforts to place the Dental Profession in the position to which it is entitled as a highly important branch of the Medical Profession, are meeting with this prompt and emphatic success. The members and friends of the Dental Profession should be hereby stimulated by liberal donations to place upon the solid basis of a full endowment a school which is accomplishing so much for its improvement and elevation.

It is equally gratifying to be able to report that the expectations entertained in regard to the recently established Veterinary Department, bid fair to be fully realized.* The first course of lectures was begun in October, 1884, and was attended by thirty-three students. The Faculty of the School has been completed in the following manner:

* As these pages are going through the press, the death of J. B. Lippincott, Esq., removes the largest benefactor of this Department. His earnest interest in every measure looking to the improvement of the condition of the lower animals, and his wise appreciation of the great advantages to be derived from the scientific study of Veterinary Medicine, led him to urge the establishment of this school, and to contribute liberally to its development. He gave close personal attention to its affairs during the important stages of its organization, and to the close of his days maintained his solicitude for its success and future growth. The following resolutions were adopted by the Board of Trustees at the stated meeting held January 5th:

Resolved, that there be recorded on the Minutes and duly published the expression of the deep sense of the loss which the University of Pennsylvania has experienced in the death of Mr. Lippincott, who had for many years been a highly valued and efficient member of the Board of Trustees, and had contributed liberally to promote the development of various Departments of the University.

Resolved, that his sagacity and liberality were in no instance more conspicuous than in the prompt and liberal support he afforded to the School of Veterinary Medicine, which is destined to become one of the most important Departments of the University, and of which he will ever be regarded as one of the founders."
Rush Shippen Huidekoper, Dean of the Faculty, Professor of *Internal Pathology*, and *pro tempore* Professor of *Veterinary Anatomy*.

James Tyson, M.D., Professor of *General Pathology* and *Morbid Anatomy*.

Horatio C. Wood, M.D., LL.D., Professor of *Materia Medica, Pharmacy* and *General Therapeutics*.

Theodore G. Wormley, M.D., LL.D., Professor of *Chemistry* and *Toxicology*.

Joseph T. Rothrock, M.D., B.S., Professor of *Botany*.

Andrew J. Parker, M.D., Ph.D., Professor of *Comparative Anatomy* and *Zoology*.

Robert Meade Smith, M.D., Professor of *Comparative Physiology*.

William M. Zuill, M.D., V.S., Professor of *Surgical Pathology* and *Obstetrics*.

Garrett Edwards, *Farrier*, Demonstrator of *Forging* and *Horseshoeing*.

During the session of 1885–86, the instruction of the First and Second years will be given; and in 1886–87 the full course will be completed for the first time, and the first degrees will be awarded in June, 1887. The position assumed from the first by this Department has commanded the approval of all who are anxious to see Veterinary Medicine advanced, and to have the members of the Veterinary Profession brought into proper relationship with the Medical and Dental Professions. The exaction of a preliminary examination, and of attendance upon a carefully graded course of instruction, covering three full years—each session extending from October 1st to June 1st—must doubtless seem a noteworthy stride to those accustomed to the Veterinary education of the past. A consideration of the wide field to be covered by the instruction in this Department, embracing, as it does, Chemistry, *Materia Medica* and *Botany*; Human and Comparative Physiology and Anatomy; *General Pathology* and *Morbid Anatomy*; Therapeutics and Practical Veterinary Medicine and Surgery; Practical Farriery, and the principles of breeding and fostering domestic animals; shows that a course, less extensive, would not suffice. The advantages which this School enjoys from its favorable location, and from its relations with the other Departments of the
University, justify the determination to place it upon an equality with the leading European Schools. To secure the necessary intimate practical familiarity with all forms of disease and injury occurring in the lower animals, it was decided to construct extensive stables in connection with the Veterinary School. Plans were prepared with great care, and the building was constructed under the constant supervision of Dr. Huidekoper, the Dean of the Veterinary Faculty.

The sum necessary (over $16,000) was advanced by a number of liberal friends of the University.

The Hospital was completed and in full operation in time for the opening of the present Session. It has been a source of especial gratification to find that this new Department of the University has been welcomed with the great favor in all quarters; that there has been a quick recognition of the great practical benefits it will confer on the community; and in particular that the Veterinary Surgeons throughout the country have applauded the advanced standard adopted, and have shown a disposition to support it both by valuable contributions to the Museum, and by advising students to enter it. Nothing has revealed more conclusively the foresight in securing a large additional amount of land for the University than the development of this Veterinary School, which was thus alone rendered possible, and which makes Philadelphia the centre of another great branch of professional education of untold importance to the sanitary, scientific, and commercial interests of the country.

The number of students at the present time in the several Departments is: in the College, 381, Medical, 388, Auxiliary, 23, Dental, 97, Veterinary, 42, Law, 132, Philosophy, 4, Biology, 27,—a total (excluding 21 cases where students are matriculated in more than one Department) of 1048. Of these, 810 are from Pennsylvania, 181 from other parts of the United States, representing 30 States and Territories, 14 from the British Provinces, 1 from Mexico, 14 from Central America, 12 from the West Indies, 9 from South America, 4 from Europe, 2 from Asia, and 1 from Australia.

The expectations formed as to the value of the Central Committee of the Alumni, as a means of communication between
the general body of the graduates and the Governing Bodies of the University, are being fulfilled. Depending, as the influence of this Committee does, upon the extent to which it is recognized as embodying the views of the great number of Alumni actively interested in promoting the interests of the University, it is of the highest importance that a full appreciation should be shown of the privileges accorded by the Trustees in its establishment. In fact there has already been received by the Trustees a number of important communications from the Central Committee, conveying the results of close study of the operations of various Departments of the University. As would naturally be expected, these reports have contained some outspoken criticisms upon matters of general policy, or upon special features of instruction. It is not too much to say that in every instance the views, the criticisms, or the suggestions of the Central Committee have received at the hands of the appropriate Committee of the Board of Trustees and of the Board itself, a degree of considerate attention, frequently followed by appropriate action, which must be highly gratifying to the Alumni. In order, however, that the weight attached to such Reports shall not only be maintained, but increased, until the views of the Central Committee shall acquire fully as much force as though this body existed by chartered right, it is evident that at all times the graduates chosen for the responsible position of members of this representative body, should be not only actively interested in the University, but should also be recognized authorities upon the various branches of education they respectively represent. The greater the care shown in the selection of the membership, the greater will become the desire to be elected, and the more fully will be realized the double purpose of this Committee, of sustaining a vigorous and organized interest among the Alumni, and of subjecting the Board of Trustees and the Faculties to the courteous criticism of those who are enabled to judge the administration of the University from an independent and yet thoroughly intelligent position. How careful have been the selections for this important Committee may be judged by the character of the communications above referred to, and by the valuable additions which have been made to the Board of Trustees from
the nominees submitted by the Central Committee for the three vacancies which they were entitled to fill in this way. In order to test the opinions formed as to the efficiency of the present plan of organization (see Provost's Report, 1883, p. 59), a conference was held recently between special sub-committees of the Trustees and of the Central Committee, as a result of which it was agreed that no modification was desirable; and that it requires only the continued and more general interest and co-operation of the Alumni to render the working of the plan entirely successful, and to obtain all the advantages which it was framed to secure.

The condition of the buildings and grounds of the University is constantly improving under the careful management of the Committee on Buildings, Estates and Property. The amount expended during the past year in repairs and improvements has been unusually heavy. A considerable portion of this was devoted to putting in thorough order the stonework of the Medical Hall. A favorable opportunity occurred for securing a suitable iron fence, to surround the main college lot and the hospital lot, and it was purchased and erected, at a cost of about $12,000. The improvement thus effected amply justifies this considerable expenditure, which, however, is certainly not more than one-third the actual value of the purchase. The entire college lot has been brought into good condition, walks have been made in convenient directions; marked progress has been made towards securing a fine turf over the whole lot; and finally a large number of valuable trees have been planted. The effect of these changes is already conspicuous, and in a few years they will give great beauty and dignity to the University property.

The growth and condition of the University Library demands particular attention. In February, 1884, the Board of Trustees elected as Librarian, James G. Barnwell, M.A., who at once entered upon his duties. Mr. Barnwell's experience in the arrangement of public libraries gave assurance of such intelligent and energetic supervision as would greatly facilitate the use and stimulate the growth of the library of the University. Already this assurance has been realized. Both by purchase and gifts the number of books has been largely in-
creased as special needs were revealed, and much has been done to make them accessible to students and investigators. It is unfortunate that the only fund specially applicable to the purchase of books is the $10,000 given in 1874 by Miss Elizabeth Rhoads as a memorial of her brother-in-law, the late Tobias Wagner, Esq. The conditions of this trust are that the income shall be devoted to the purchase of such books, maps and printed works as the Provost, with the consent of the Library Committee, may select, that these shall be suitably marked as having been purchased by the Tobias Wagner Library Fund, that they may be rebound when necessary at the expense of the Fund, but must be insured and otherwise cared for at the expense of the University.

While, however, the rapid increase in the number of volumes in the library, and in the use made of them, is gratifying, it renders more conspicuous the lamentable want of suitable accommodations for books and for readers. The time has now come when a separate fire-proof Library Building is imperatively demanded. It is a necessity for the instructors, over 148, and for the students, over 1048, who now have no good opportunity of using the Library for reference, still less for systematic study and investigation. It is a necessity on account of the many thousands of volumes which are at present stored away in various places almost inaccessible; and for the far larger number of books which will be generously given as soon as suitable accommodation is provided. It is sufficient to allude to the fact that in addition to the regular growth of the Library, there has been received on deposit from Brinton Coxe, Esq., a collection of about 500 volumes of valuable economic works, and that in response to a brief circular, (see Appendix IV) which was issued in June, 1885, and again in December, there has been received 11,478 books and pamphlets, some of them of exceptional value to the Library.

This matter, therefore, will brook no delay. Fortunately the demand for this building for library purposes coincides with almost equally urgent needs of the Alumni. Plans have been prepared which show that it will not be difficult to construct a fire-proof building, admirably adapted for the purposes of a Library, with a large central vaulted reading
room to be lined with book-cases, and capable of seating 1,500 persons, where the Commencement exercises may most appropriately be conducted, and where the large annual re-unions of the Alumni may be befittingly held, while the rooms on the ground floor may be used as a refectory. The heating and forced ventilation should properly be governed from a small outside building, so as to ensure additional safety from fire. The amount required for this purpose does not exceed $150,000. And it can not be doubted that the combined efforts of the Alumni, and of other friends of the University, specially interested in securing additional library accommodation in Philadelphia, will speedily enable that amount to be raised, so that this great work can be accomplished without delay.

During the past year there was published the first volume of the Annals of the Wharton School. This publication will consist of papers, prepared from time to time by those who give instruction in the Wharton School and by their students, that may be regarded as having some permanent value. It is not intended therefore to issue the Annals at stated times, but occasionally, when enough papers have accumulated in the ordinary course of study and investigation to form a convenient number. It is also hoped that the publication of these contributions to political economy and American political history, may interest the community in the special work of this school.

Hitherto there has not been in connection with any Department of the University any regular serial publication maintained. It may be questioned whether or not this is a wise policy. Where there exists a distinct vacancy in the field of journalism, it is certainly well that it should be filled, whether by a publication under University auspices or not. But for the most part, it is probable that the original work of the various members of an Academic Staff is most effective when published in the appropriate existing journals of widest circulation. On the other hand, the absence of such distinctive University publications undoubtedly interferes with an appreciation of the literary productiveness of our Faculties. It may be safely asserted that no one, even among the members of the Faculties, has any conception of the large amount of good lit-
erary work done in the course of each year at the University; and yet it is this work which, as much as the oral instruction given, constitutes the University a fertile and powerful centre of intellectual activity. It has seemed desirable, therefore, in the absence of any more appropriate place, to append to this Annual Report, a condensed list of the titles of the more important publications made by members of the Faculties and by officers, and students of the University. The list now published (p. 47) covers a period of two years: 1883–1885.

The financial condition of the University has been for some years a subject of great anxiety to the Board of Trustees and to other friends. It is satisfactory to be able to report, however, that by skilful management of its funds, and by the most rigid economy, a much more healthy condition of affairs has been brought about. As stated in 1883 (Provost's Annual Report, p. 47), there had been created a bonded debt of about $445,000, due to the accumulation of annual deficits, resulting from the operations of the College Department. In 1873 this deficit was $30,000; in 1883 it was reduced to about $16,000; in 1884, it was $3,923.45; and in 1885, $9,517.12, which was entirely due to unusually heavy outlays for permanent improvements.

This rapid improvement has been due to the increase in students' fees, to the decrease in the charges for interest on indebtedness, and to the increased receipts from investments. During the past five years also the large indebtedness has also been extinguished, and the bonds have all been called in, satisfied and destroyed. The University thus finds itself in a more satisfactory position financially than has ever been the case hitherto, and the Trustees will be now enabled to apply new funds, as they may be received, to the addition of facilities still required, and as soon as possible to some increase in the general scale of salaries, which are not adequate for the high grade of talent composing the Faculties, nor for the arduous services now required from the great majority of the Professors and Instructors.

Especial attention is due to the appended report of the Treasurer, in which the full details of the financial affairs of the University, including all of the special trusts, are presented.
The donations to the various departments of the University during the period covered by this Report have amounted to $144,762.

Among the special trusts, the one to which the greatest interest attaches, is that created by the will of the late John Henry Towne, Esq. Under this Will, securities estimated as worth at least $500,000, were received by the Trustees and were set aside as the endowment of the Towne Scientific School. For some years after the receipt of this munificent legacy, the extreme depression of business interfered seriously with the receipts from these investments; but by careful management the stringency resulting from this unavoidable cause in the financial condition of what rapidly grew to be a highly important Department of the University, was accommodated; and the advance in value of some of the properties received from the executors of Mr. Towne, and the maturing of certain reversionary interests given by his Will, now justify the confident hope that the endowment ultimately available will fully equal the magnificent figures above mentioned. When the large proportions already attained by this School are considered, as well as the impetus given by its establishment to the thorough study of pure and applied science, and the benefits conferred upon those who are fitted in it for profitable professional careers, it must be recognized as a noble and enduring monument to a great public benefactor.

WILLIAM PEPPER,
Provost.

PHILADELPHIA, October, 1885.
APPENDIX I.

RESIGNATIONS.


Nov. 6, " P. Pemberton Morris, A.M., as Professor of Practice, Pleading, and Evidence at Law and in Equity.

Dec. 6, 1884. George Tucker Bispham, A.M., as Trustee.

April 21," Alfred Stillé, M.D., LL.D., as Professor of the Theory and Practice of Medicine, and of Clinical Medicine.

June 3, " William Pepper, M.D., LL.D., as Professor of Clinical Medicine.

" " Morton W. Easton, Ph.D., as Instructor in Elocution, College Department.

Dec. 2, " George E. Shoemaker, M.D., as Assistant Demonstrator of Physiology.


March 3, " Harrison Allen, M.D., as Professor of Physiology.

April 7, " Louis Starr, M.D., as Instructor in Diseases of Children.

DEATHS.

1883. Alexander Henry, Trustee.


" Frederick C. Sheppard, M.D., Assistant Gynaecologist.

" Eli Kirk Price, LL.D., Trustee.

1885. George Whitney, Trustee.

APPOINTMENTS.

GENERAL.

Feb. 5, 1884. James G. Barnwell, to be Librarian.

April 1, " Hon. John Scott, " Trustee.

Feb. 3, 1885. James MacAlister, " "

" " " John C. Sims, Jr., " "

May 5, " Henry H. Houston, " "

(32)
Unlimited.

College Department.

June 2, 1885. Rev. George S. Fullerton, A.M., to be Adjunct Professor of Intellectual and Moral Philosophy.

Medical Department.

April 28, 1884. Alfred Stillé, M.D., LL.D., to be Emeritus Professor of the Theory and Practice of Medicine and of Clinical Medicine.

June 3, " William Pepper, M.D., LL.D., to be Professor of the Theory and Practice of Medicine and of Clinical Medicine.

Oct. 7, " William Osler, M.D., to be Professor of Clinical Medicine.

Dec. 2, " Edward T. Bruen, M.D., to be Assistant Professor of Physical Diagnosis.

Dec. 2, " Louis Starr, M.D., to be Clinical Professor of Diseases of Children in the University Hospital.

May 5, 1885. Harrison Allen, M.D., to be Emeritus Professor of Physiology.

Department of Veterinary Medicine.

Dec. 12, 1883. Rush Shippen Huidekoper, M.D., V.S., to be Professor of Internal Pathology, and Dean of Department. Harrison Allen, M.D., to be Professor of Physiology. Horatio C. Wood, M.D., LL.D., to be Professor of Materia Medica, Pharmacy, and General Therapeutics. James Tyson, M.D., to be Professor of General Pathology and Morbid Anatomy. Joseph T. Rothrock, M.D., B.S., to be Professor of Botany. Theodore G. Wormley, M.D., LL.D., to be Professor of Chemistry and Toxicology. Andrew J. Parker, M.D., to be Professor of Comparative Anatomy and Zoology. Robert Meade Smith, M.D., to be Professor of Comparative Physiology.

March 3, 1885. William L. Zuill, M.D., to be Professor of Surgical Pathology.
DEPARTMENT OF LAW.

Dec. 12, 1883. George Tucker Bispham, A.M., to be Professor of Practice, Pleading and Evidence at Law and in Equity.

June 17, 1884. P. Pemberton Morris, A.M., to be Emeritus Professor of Practice, Pleading and Evidence at Law and in Equity.

DEPARTMENT OF PHILOSOPHY.

Dec. 12, 1883. Rev. Robert Ellis Thompson, A.M., to be Professor of History.

Edmund J. James, Ph.D., to be Professor of Political and Social Science.

July 1, 1884. Harrison Allen, M.D., to be Professor of Physiology.

DEPARTMENT OF BIOLOGY.

May 6, 1884. Joseph Leidy, M.D., LL.D., to be Director, and Professor of Anatomy.

Harrison Allen, M.D., to be Professor of Physiology.

Joseph T. Rothrock, M.D., B.S., to be Professor of Botany.

Andrew J. Parker, M.D., Ph.D., to be Professor of Comparative Anatomy.

Horace Jayne, M.D., to be Professor of Vertebrate Morphology.

Benjamin Sharp, M.D., to be Professor of Invertebrate Morphology.

DEPARTMENT OF PHYSICAL EDUCATION.

Dec. 2, 1884. J. William White, M.D., to be Director of Physical Education.

APPOINTMENTS, ANNUAL, OR FOR A PERIOD LESS THAN THREE YEARS.

College Department.


" " " Horace Jayne, M.D., to be Assistant Instructor in Biology in the Towne Scientific School.

Dec. 12, " John S. Elliott, to be Assistant in Civil Engineering.

May 6, 1884. Henry F. Keller, B.S., to be Assistant in Analytical Chemistry.
May 6, 1884. Edwin S. Crawley, B.S., to be Assistant in Civil Engineering.

Henry A. Wasmuth, E.M., to be Assistant in Geology and Mining.

Morton W. Easton, Ph.D., to be Instructor in French.

Rev. George S. Fullerton, A.M., B.D., to be Instructor in Intellectual and Moral Philosophy.

Gould H. Bull, Assistant Engineer, U. S. N., to be Instructor in Mechanical Engineering.

July 1, 1884. Morton W. Easton, Ph.D., to be Instructor in Greek.

June 2, 1885. Louis A. DuPont Syle, A.M., to be Instructor in English.

July 1, 1884. Edward P. Cheyney, A.B., B.F., to be Instructor in History.

Arthur W. Goodspeed, B.A., to be Assistant in Physics.

J. P. Crozer-Griffith, M.D., to be Assistant Demonstrator of Normal Histology.

George E. De Schweinitz, M.D., to be Prosector of Anatomy.

Elliot Richardson, M.D., to be Demonstrator of Operative Obstetrics.

Henry W. Stelwagon, M.D., to be Instructor in Dermatology.

Roland G. Curtin, M.D., to be Lecturer on Physical Diagnosis.

Charles K. Mills, M.D., to be Lecturer on Mental Diseases.

Adolph W. Miller, M.D., Ph.D., to be Lecturer on Materia Medica and Pharmacy and Demonstrator of Practical Pharmacy.

Elliot Richardson, M.D., to be Lecturer on Clinical and Operative Obstetrics, and Demonstrator of Practical Obstetrics.

De Forest Willard, M.D., to be Lecturer on Orthopaedic Surgery.

John Marshall, M.D., Nat.Sc.D., to be Demonstrator of Practical Chemistry.

Benjamin F. Baer, M.D., to be Demonstrator of Clinical Gynaecology.
June 3, 1884. Edward T. Bruen, M.D., to be Demonstrator of Clinical Medicine.

" " J. William White, M.D., to be Demonstrator of Surgery and Lecturer on Venereal Diseases.

July 7, 1885. Harry R. Wharton, M.D., to be Demonstrator of Clinical Surgery.

June 3, 1884. John B. Deaver, M.D., to be Demonstrator of Anatomy.

July 7, 1885. Henry F. Formad, M.D., to be Demonstrator of Pathology and Morbid Anatomy, Lecturer on Experimental Pathology, and Librarian of Stillé Medical Library.

June 3, 1884. Edward T. Reichert, M.D., to be Demonstrator of Physiology.

July 7, 1885. George A. Piersol, M.D., to be Demonstrator of Normal Histology.

June 3, 1884. William M. Gray, M.D., to be Assistant Demonstrator of Normal Histology.

July 7, 1885. Richard H. Harte, M.D., to be Assistant Demonstrator of Anatomy and Surgery.

June 3, 1884. Thomas R. Neilson, M.D., to be Assistant Demonstrator of Anatomy and Surgery.

July 7, 1885. Edmund W. Holmes, M.D., to be Assistant Demonstrator of Anatomy.

June 3, 1884. Wm. Barton Hopkins, M.D., to be Assistant Demonstrator of Surgery.

July 7, 1885. Alben L. A. Toboldt, M.D., to be Assistant Demonstrator of Practical Pharmacy.

June 3, 1884. William A. Edwards, M.D., to be Assistant Demonstrator of Clinical Medicine.

July 7, 1885. Judson Daland, M.D., to be Assistant Demonstrator of Clinical Medicine.

June 3, 1884. N. Archer Randolph, M.D., to be Assistant Demonstrator of Physiology.

July 7, 1885. George E. Shoemaker, M.D., to be Assistant Demonstrator of Physiology.

June 3, 1884. Washington H. Baker, M.D., to be Assistant to the Professor of Obstetrics.

June 3, 1884. J. P. Crozer Griffith, M.D., to be Assistant Demonstrator of Normal Histology.

July 7, 1885. George E. De Schweinitz, M.D., to be Prosector to the Professor of Anatomy.
June 3, 1884. Samuel D. Risley, M.D., to be Instructor in Ophthalmology.
July 7, 1885.

June 3, 1884. Walter M. L. Ziegler, M.D., to be Instructor in Otology.
July 7, 1885.

June 3, 1884. Carl Seiler, M.D., to be Instructor in Laryngology.
July 7, 1885.

June 3, 1884. Louis Starr, M.D., to be Instructor in Diseases of Children.

June 3, 1884. Walter M. L. Ziegler, M.D., to be Instructor in Otology.
July 7, 1885.

June 3, 1884. Francis X. Dercum, M.D., to be Instructor in Nervous Diseases.
July 7, 1885.

June 3, 1884. J. Hendrie Lloyd, M.D., to be Instructor in Electrotherapy.
July 7, 1885.

June 3, 1884. A. Sydney Roberts, M.D., to be Instructor in Orthopedic Surgery.
July 7, 1885.

June 3, 1884. Henry W. Stelwagon, M.D., to be Instructor in Dermatology.
July 7, 1885.

June 3, 1884. George A. Bodamer, M.D., to be Assistant Demonstrator of Pathology and Morbid Anatomy.
July 7, 1885.

July 7, 1885.

Feb. 3, 1885. Samuel G. Dixon, to be Assistant Demonstrator of Physiology.
July 7, 1885.

July 7, 1885. William L. Taylor, M.D., to be Demonstrator of Clinical Gynaecology.

Auxiliary Department of Medicine.

Dec. 6, 1883. John J. Reese, M.D., to be Professor of Medical Jurisprudence and Toxicology.

Samuel B. Howell, M.D., to be Professor of Mineralogy and Geology.

Joseph T. Rothrock, B.S., M.D., to be Professor of Botany.

Joseph G. Richardson, M.D., to be Professor of Hygiene.

Dec. 2, 1884. Andrew J. Parker, M.D., Ph.D., to be Professor of Comparative Anatomy and Zoology.

Department of Dentistry.

July 7, 1885.

July 7, 1885.
July 7, 1885.

July 7, 1885.

June 3, 1884. John B. Deaver, M.D., to be Demonstrator of Anatomy.
July 7, 1885.

June 3, 1884. John Marshall, M.D., to be Demonstrator of Chemistry.
July 7, 1885.

July 7, 1885. Luther H. Graves, D.D.S., to be Assistant Demonstrator of Operative Dentistry.


DEPARTMENT OF VETERINARY MEDICINE.

Dec. 12, 1883. Henry F. Formad, M.D., Demonstrator of Pathology and Morbid Anatomy.


DEPARTMENT OF PHILOSOPHY.


Dec. 12, 1884. Robert Meade Smith, M.D., to be Assistant to the Professor of Physiology.

Apr. 1, 1884. Otis H. Kendall, A.M., to be Assistant to the Professor of Mathematics.

July 1, 1884. Robert Meade Smith, M.D., to be Instructor in Physiology.

DEPARTMENT OF BIOLOGY.

July 1, 1884. N. Archer Randolph, M.D., to be Instructor in Physiology.

July 7, 1885. Charles S. Dolley, M.D., to be Instructor in Biology.
APPENDIX II.

THE TYNDALL FELLOWSHIP FOUNDATION.

LETTER OF WM. W. APPLETON, ESQ.

NO. 3 BOND STREET, NEW YORK, JUNE 22, 1885.

TO THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA.

GENTLEMEN:

Having been given the power of attorney, and intrusted by Professor Tyndall with the duty of delivering into your possession a sum of money for the foundation of a permanent Scholarship, I herewith send you a check for the amount, together with a document which gives effect to this transaction. I have also thought it proper to make a brief statement concerning the origin of this fund, and how it has come to take its present form; premising that a complete history of the matter is contained in the volumes deposited for permanent reference in the library of Columbia College.

At the solicitation of numerous friends and many scientific men, Professor Tyndall came to this country in the year 1872, to deliver a course of scientific lectures in several of its chief cities. Disclaiming all purpose of making profit out of the undertaking, he came because of the assurances given, that such lectures from him would be of great public value. The subject chosen was Physical Optics, and the great lesson which he sought to inculcate, as may be seen by referring to the volume in which the lectures were published, was the value and importance of pure science, and the great results that have come from its theoretic study as the research after principles and laws, and with no reference to its utilitarian applications.

When he had finished his work he had a surplus on hand of about $13,000 above expenses, and the question arose how the money was to be used. As it had been contributed by the American people, he resolved that he would take none of it away, and that it should be devoted to the interests of science in this country. After consultation and correspondence he decided to leave the amount in the shape of a trust fund in the hands of three (3) trustees, and that the income from it should be devoted to the assistance of young men who desired to go abroad and pursue scientific study in the European Universities. In his letter of instruction he said: "I desire to devote this sum of Thirteen thousand and thirty-three dollars ($13,033) to the advancement of theoretic science, and the promotion of original research in the depart-
ment of Physics in the United States." Eligibility to the benefits of
the trust was defined by Professor Tyndall by limiting it to “two (2)
pupils who may have evinced decided talents in Physics, and who may
express a determination to devote their lives to that work.” Professor
Joseph Henry, of Washington; Gen. Hector Tyndale, of Philadelphia,
and Mr. E. L. Youmans, of New York, were appointed as Trustees, and
it was provided that on the death of any one of them, substitutes should
be chosen by the President of the National Academy of Sciences.
When Prof. Henry and Gen. Tyndale died, President Barnard, of
Columbia College, and Prof. Lovering, of Harvard University, were
appointed by President Wm. B. Rogers, of the National Academy of
Sciences, to fill their places.

The carrying out of this generous plan the Trustees found to be not
altogether free from difficulties. The income was at first insufficient to
support two students abroad, and it was early resolved by the Trustees
to postpone appropriations for a time, until the accumulated principal
would furnish sufficient means; and when the money became available
it was found not so easy as had been expected, to secure students with
the requisite qualifications. Although applicants were numerous, most
of them failed to fulfill the required conditions. Some good appoint-
ments were made with satisfactory results, but the number of students
evincing talents for original scientific work, and desiring to devote
their lives to it, who sought assistance to go abroad for the purposes of
study, was so small that only a portion of the income was consumed.
The investments made were fortunate, and as the fund rapidly increased
it was at length apparent that some change should be made in the plan
to secure more effectually the object Professor Tyndall had in view.
This it was thought could be best done by putting the money in charge
of prominent and responsible educational institutions, which recognize
the advance of science as among the objects to be guarded and pro-
moted. The Trustees having consulted with Professor Tyndall upon
this matter, he proposed that the fund should be divided into three (3)
equal parts, constituting the foundation of three (3) scholarships in
physical science, in three (3) American Institutions—the University of
Pennsylvania, Harvard University, and Columbia College, New York.
The Trustees accordingly transferred the fund, amounting to thirty-
two thousand four hundred dollars ($32,400), back to the possession of
the original donor, to be distributed by him among such colleges as he
might designate.

I have thought it desirable to make the foregoing statement that you
may understand the circumstances under which the fund comes into
your possession. Professor Tyndall has not been strict or formal in
his requisition upon the College authorities, as to the use they shall make of the donations. But the purpose he has had in mind has been plain from the outset, and will be a sufficient guide to you in the expenditure of the money. The noble purpose of the endowments, the magnitude of the gifts, the generous self-sacrifice of the donor, who freely contributed his time and labor in preparing and delivering the lectures, and the fact that the money was eagerly given by the American people to listen to one of the most elevated and instructive series of lectures ever delivered in this country—all these circumstances seem to require that these scholarships should be of a high class, that they should favor and encourage original scientific work, and be so administered as to be an honor alike to the beneficiaries, to the institutions which accept the trust, and to the illustrious founder, to whose single-minded devotion to the interests of pure science this splendid benefaction is due.

With great respect,
Very truly yours,
WM. W. APPLETON.

PROFESSOR TYNDALL'S DEED OF GIFT.

To all to whom these presents shall come: Be it known that John Tyndall, Professor of Natural Philosophy in the Royal Institution of Great Britain, D.C.L., LL.D., F.R.S., F.G.S., F.C.S., having in the years 1872 and 1873 given a series of lectures in various cities of the United States, the net proceeds whereof he appropriated towards the education of young men in the United States who should evince decided talent in Physics, which appropriation has hitherto failed of its object, while the fund by judicious management has increased from about $13,000 to $32,400, and the said John Tyndall still desiring to effect the purpose aforesaid, having determined to entrust the said fund in equal shares to Harvard College, Cambridge; to Columbia College, in the City of New York, and to the University of Pennsylvania: Now the said John Tyndall, acting herein by William W. Appleton, of the City of New York, his attorney in fact, does by these presents give, grant and make over to the Trustees of the University of Pennsylvania, Philadelphia, the sum of Ten thousand eight hundred dollars ($10,800), lawful money of the United States, to hold to them and their successors forever: Upon trust to keep the same judiciously and safely invested, and to apply the whole net income thereof in supporting, or assisting to support one or more American pupils, who may have shown decided
talents in Physics, and preferably such as shall express the determination to devote their lives to the advancement of theoretic science and original investigation in the department of learning.

Each person so assisted shall be either a graduate of the University of Pennsylvania, or a student in some department thereof, but not necessarily a candidate for a degree.

His studies and researches may be conducted at such places in America, or at such European Universities as may be considered most desirable, and shall be approved by the Academic Council of the University of Pennsylvania.

Such assistance may be continued to the same student from year to year, so long as may be recommended by the Academic Council, but the appointment must be renewed annually, and only upon satisfactory evidence that the incumbent is fulfilling the purposes of the endowment. The student should be required from time to time to furnish evidence of his fidelity, proficiency and good character.

If in the course of any year no student of sufficient ability and promise shall require aid from said fund, or for any reason the whole income of said fund shall not be expended, the surplus may either be added to the principal, or may be expended in addition to the income of a subsequent year or years.

The said Trustees are authorized, at their discretion, to impose such conditions and make such requirements upon the recipient of aid from said fund, as will best secure his faithful devotion to the purposes of this foundation.

If by any means it shall happen at any time or times that the specific purpose of this foundation cannot be carried into effect, its general purpose shall not thereby be defeated, but the available income shall be applied in some manner to the advancement of science.

The Fellowship hereby founded shall be designated as the Hector Tyndale Fellowship.

In witness whereof, the said John Tyndall, by his attorney aforesaid, hath hereunto set his hand and seal, this twentieth day of June, one thousand eight hundred and eighty-five.

And the said “The Trustees of the University of Pennsylvania,” Philadelphia, accept the said trust, and in token thereof have affixed their corporate seal to these presents.

JOHN TYNDALL, [seal.]

by WILLIAM W. APPLETON, his Attorney in fact.
APPENDIX III.

RULES ADOPTED MAY 5TH, 1885.

1. Experiments may be made on living animals only for the purpose of serious inquiry, or for giving instruction of importance.
2. Experiments on animals are permissible during lectures, only so far as they are necessary for the lecturer to explain his subject matter.
3. The operative preparations for the lecture experiments are, as a rule, to be made before the commencement of the demonstration, and in the absence of those attending the lecture.
4. Experiments on animals may be performed only by the Professors and lecturers, or on their responsibility.
5. Experiments which can be performed on the lower animals, without essential prejudice to the results required, are only to be performed on these, and not on the higher animals.
6. In all cases, whether for research or instruction, in which it is not absolutely incompatible with the object of the experiment, the animal must be put under the full influence of anaesthetics in such a manner that the effects of the anaesthetics shall last for a sufficient time.

The Trustees desire the Professors concerned to see that these rules are strictly enforced, and give them authority to refuse the use of the laboratories to persons who do not obey these regulations.

APPENDIX IV.

The Librarian of The University of Pennsylvania hereby appeals to all friends of that Institution, or of Learning, for the gift of Pamphlets; Speeches; Sermons; Reports of Societies, Charitable or Literary; Annual Reports of Corporations, whether of Railroads, of Insurance Companies, or of Commercial Enterprises; Catalogues, etc., etc., in short, for the gift to the Library of all printed matter which accumulates annually in offices, counting houses and homes, and is generally consigned as rubbish, to the waste basket or to the cellar.

This “rubbish” is the history of to-day, and upon this “rubbish” the Historian of the future must depend. Out of similar “rubbish” grew Macaulay’s History. It is hard to realize that the future will hold dear what we now hold cheap. Pamphlets which in their day cost but three pennies have been, in our time, gladly bought with a hundred pounds for every penny. The Journals of our City Govern-
ment have been so little prized in the day of their publication that the City itself does not, or at least within the writer's recollection did not, possess a complete set, and but two complete sets are believed to exist which are in private hands. How many of our Corporations of all descriptions, which have existed for many years, are able to show a set of all their Reports or Publications? The Mercantile Library even does not own a set of its own Reports, nor a copy of its first Catalogue. Of the Reports of the Board of Education, a series of great importance, but two sets are known to exist, and a collector of this city having special facilities, has been unable to complete a third, after a search of thirty years. Even here in our own Library there is not a set of our Annual University Catalogues. So true is it that “What we have we prize not to the worth while we enjoy it, but being lacked and lost, why, then, we rate the value.”

It is this “rubbish” which contains the record of the busy work of the world to-day, and within the walls of a Library it should be garnered, where students can use it, and learn the methods of original investigation and research.

Let it be also understood that the Library will be most grateful for all donations of books which are by no means “rubbish,” but which if little used on your own shelves, will do the greatest good to the greatest numbers when transferred to the use of our earnest young students.

Enclosed is a Postal Card. On it please give your name and address and kindly leave the parcel where, in case you are not present, the messenger who shall be sent as soon as may be, can obtain it.

JAMES G. BARNWELL,
Librarian.

WM. PEPPER,
Provost.

H. H. FURNESS,
Chairman Lib. Com.

APPENDIX V.

UNIVERSITY OF PENNSYLVANIA.

PHILADELPHIA, July 15th, 1885.

DR. WILLIAM PEPPER, PROVOST.

Sir:—The cataloguing of the Library was resumed on November 3d, and it has been steadily progressing ever since. Previously to that date the number of cards written was 1,438, representing 910 volumes. Since
then the number written was 16,918, representing 5,413 volumes; in all, 18,356 cards, representing 6,323 volumes. This is not so rapid an accomplishment of the work as I could wish, but I am confident that in no other library has a larger amount of careful work been accomplished in an equal time for so small an expenditure.

A cataloguer should possess a very high order of natural ability, a wide range of general knowledge, familiarity with books as books, apart from the literature contained in them, and the ability to write a very legible hand. A knowledge of one or more foreign languages is a valuable adjunct to these qualifications. I have had very great difficulty in finding those suited to the business. As this conflicts with my former experience, I am led to attribute it to two causes: 1. The exceptional difficulty which our books present as compared with those in a general or popular library; and 2. In consequence of the opening of many new channels for female labor of the higher order, the unemployed supply of that grade is, as a consequence, diminishing.

Of course I neither sought nor expected to find any persons with special experience, but I did seek for such as had the previous general training and the capacity for being taught. I succeeded to a very limited extent. I have not found any one who, even after long and careful training, could be left wholly to herself, and but few who could get beyond the mere mechanical part of the work. As a result, much of my time has necessarily been spent in revising, book-in-hand, every card written, pointing out the errors, suggesting amendments and improvements, and in doing personally such of the work as the assistant could not do. I feel gratified, under the circumstances, that so much has been accomplished, and I hope that still greater progress will be made during the coming year.

No enumeration of the books has been taken, chiefly for the reason that the time spent in doing so, could be employed to much more practical advantage in cataloguing. A careful count is being made as this latter work progresses, and when completed, an exact statement can for the first time in a long period, be made of the contents of the library, hitherto a matter of conjecture.

During the year shelf-room has been added which, by estimation, is capable of accommodating 5,000 volumes, and it is all occupied, and more is still needed. Some portions of the Library which have hitherto been scattered about the building, have been restored to their proper places, and some still remain where they were. A few additional books have been returned which were taken out without being charged, previous to March, 1884.

A circular asking for donations of pamphlets was issued in June, ad-
dressed to about 900 persons. The result shows the experiment to have been a success. Already over 4,000 pieces of reading matter have, in consequence, been received, the value of which is considerably more than the pecuniary outlay involved, which was very small. But the indirect results are likely to be of still greater value, as it has developed an interest, hitherto latent, of many of our friends, and it has shown activity on the part of the Library.

As the new shelves are all otherwise occupied, I shall have to devise some temporary expedient for the storage of these and similar accessions until the time, which I trust is not very far distant, when, in a new Library Building, with all the modern appointments, we may also have ample space for the orderly arrangement of all the gifts with which our friends may favor us.

The legitimate use of the Library has very much increased, and the use of the Librarian still more so. By this I mean that the students more generally come for information and advice as to the best books to read on certain subjects, or any books in which to obtain a knowledge of specific facts. Unfortunately, in many cases I am obliged, after giving the information, to refer them to other libraries for copies of the books. This is not as it should be, and I trust the public spirit of our citizens will ere long, materially diminish, if not entirely abate this state of things.

It is very gratifying for me in this connection to be able to state a most interesting fact of just the opposite character. On several occasions during the year our Library was visited by students, singly and in groups, from Johns Hopkins and other Colleges, for the sole purpose of studying up on subjects wherein our Library afforded better facilities than theirs; generally if not always on topics connected with political and social science. The possession of the two important collections received from the estates of Messrs. Colwell and Carey, gives our Library a merited reputation in that class of subjects which it should be our desire to continue by the addition from time to time of the most meritorious recent publications. In reference to these visits, I need hardly add that I have, on all such occasions, extended the largest courtesy, and it has never been abused.

In concluding this report I cannot be too emphatic in expressing my earnest appreciation of the thoughtful, hearty and intelligent co-operation of the Library Committee, in every plan or suggestion having for its object the improvement and efficiency of the Library and its administration.

JAMES G. BARNWELL,
Librarian.
APPENDIX A.

BIBLIOGRAPHY FROM JANUARY, 1882, TO SEPTEMBER, 1885.

HARRISON ALLEN, M.D.


On a New Method of Studying the Motions of the Soft Palate. Transactions College of Physicians. 1884.

On Chronic Nasal Catarrh in Children. Ibid. 1884.


Clinical Significance of Recession of the Gums. Dental Cosmos. 1885.

JOHN ASHIHURST, JR., M.D.


B. F. BAER, M.D.

A Case of Ovarian Polycyst, Interesting Diagnostically on account of the Scarcity of Cellular Elements in its Contents. American Journal


Multiple Polypoid Fibroma of Nymphæ. American Journal of the Medical Sciences. April, 1882.


A Case of Suppurating Cyst of the Broad Ligament; Rupture into the Bladder; Laparotomy and Removal. American Journal of Obstetrics, N. Y. July, 1883.


GEORGE TUCKER BISPHAM, A.M.


GEORGE DANA BOARDMAN, D.D.

The Instructed Scribe. Brooklyn, N. Y. 1882.
Martin Luther. Philadelphia. 1883.
The Training of Jesus Christ. New York. 1883.
Woman's Place in the Early Church. Philadelphia. 1884.
The Ministry of Worship. Hartford, Conn. 1885.
The Chambers of Imagery. University of Virginia. 1885.
Tribute to General Grant. Chautauqua, N. Y. 1885.

ALBERT S. BOLLES, PH.D.

Practical Banking. New York. 1884.
Addresses before the Bankers' Club of Chicago, and before the Bankers' Convention. 1885.

EDWARD T. BRUEN, M.D.

Therapeutic Dosage in Connection with the Use of certain Medicines as


Diseases of the Mediastinum; Pulmonary Hydatids; Pulmonary Cancer; Pulmonary Syphilis; Pneumonokoniosis. System of Medicine by Pepper, Philadelphia. October, 1885.

The Address in Medicine before State Society of Pennsylvania. 1885.


Clinical Lectures in 1884: Graves' Disease. Philadelphia Medical and Surgical Reporter. April, 1884.


Clinical Lectures: Diagnostic Differences between Simple Bronchitis Dependent upon Renal and Cardiac Lesions. Philadelphia Medical and Surgical Reporter. May 23d, 1885.
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Pneumothorax. Philadelphia Medical and Surgical Reporter. April 4th, 1885.


Sacculated Pleural Effusions Probably Attributable to Acute Miliary Tuberculosis or Sarcoma. Philadelphia Medical News. February 14th, 1885.


EDWARD P. CHEYNEY, B.A., PH.B.

Early American Land Tenures. Wharton School Annals. 1885.

ROLAND G. CURTIN, M.D.


JNO. B. DEAVER, M.D.

A Case of Aneurism of the Arch of the Aorta, with Marked Symptoms, Dependent upon the Anatomical Situation of the Tumor. Medical News, Vol. XLI.


FRANCIS X. DERCUUM, M.D.


GEORGE E. DE SCHWEINITZ, M.D.

Microscopical Examination of Prof. Duhring's Case of Neuroma Cutis Extracted by Dr. Duhring from Inaugural Thesis (H. C. Lea Prize). American Journal of the Medical Sciences. October 1st, 1881.
Microscopical Report on the Cicatrix after Division of the Brachial Plexus. Ibid.


A Case of Paget’s Disease of the Nipple and Areola. Medical News. February 2d, 1884.


Exhibits with Microscopical Examinations, before the Pathological Society, Philadelphia:
1. Tumor of Sciatic Nerve (Fibroma).
2. Cysto-Sarcoma of Breast (Cyst. s. fibroseum).
3. Secondary Carcinoma of Male Breast (Scirrhus).
5. Sarcoma of Testicle (Large round cell).
7. Cystic Degeneration of Fetal Kidney.
8. Sarcoma of Breast (Spindle Cell).

Transactions of the Pathological Society of Philadelphia. 1883 and 1884.

Two Cases of Diphtheritic Conjunctivitis. Medical News. August 8th, 1885.

Exhibits before Pathological Society of Philadelphia:
Cystic Sarcoma of Breast.
Sarcoma of Clavicle (Alveolar).
Sarcoma of Testicles and Retro-peritoneal Glands.
Hypertrophied Mole, and Mole Undergoing Cancerous Change.
Urethral Polypi.
Adeno-fibroma of Lachrymal Gland.
Mastoid Disease and Meningitis.
Sarcomas of Choroid.
Kidneys and Bladder after Death from Litholapaxy.

Transactions of Pathological Society of Philadelphia. 1885.
CHARLES S. DOLLEY, M.D.

Bacteria as Beneficial and Noxious Agents. Rochester Society of Natural Sciences. 1883.
Vibratile Cilia and Ciliary Motion. Ibid.
Evidences that Certain Histological Elements Act as Prophylactic Agents. Philadelphia Medical Times. August 23d, 1884. (New York State Central Medical Society.)

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The Physiology of Protoplasmic Motion, from the German of Th. W. Engelmann. Rochester, N. Y., 1883. 8vo. 40 pages.

LOUIS A. DUHRING, M.D.


Charles W. Dulles, M.D.


Hydrophobia, Remarks on. Proceedings Philadelphia County Medical


MORTON W. EASTON, PH.D.

Article on English Dialects in Encyclopædia Americana.

Practical Exercises to Harrison’s French Syntax.


Flodström’s Theory of the Consonants. To be printed in “Language.”


WILLIAM A. EDWARDS, M.D.

Is the Ovarian Cell Pathognomonic? American Journal of Medical Sciences. April, 1882.


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Notes (W. A. E.), in Dr. J. M. Keating’s Report of A Case of Aortic Stenosis and Regurgitation, with Atheromatous Aorta, in a Woman aged 103. Transactions College of Physicians of Philadelphia. 3d Series, Vol. VI.


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A Peculiar Type of Fever. Medical and Surgical Reporter. March 24th, 1883.

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A Contribution to the Clinical Study of Röthlen, or German Measles.  
American Journal of the Medical Sciences.  October, 1884.

An Anomalous Human Lung, having Four Lobes on the Right Side.  

JOHN S. ELLIOTT, C.E.

Directions as to Use and Thorough Testing of Coradi's Planimeter  
(translated from the German).  Van Nostrand's Magazine, N. Y.  
June, 1885.

Discussion of article On Weight of Iron in Railroad Bridges.  Transactions of the American Society of Civil Engineers.  December, 1885.

CHARLES I. ESSEIG, M.D., D.D.S.


Cosmos.  1884.

REV. GEO. S. FULLERTON, A.M., B.D.

January, 1884.

April, 1884.


F. A. GENTH, PH.D.

In Egyptian Obelisks, by Henry H. Gorringe.

Analysis of the Plagioclase from the Granite of the Obelisk.  
169–170.

"  " Bronze from the Crabs of the Obelisk.  P. 173.


"  " Gilt and yellow paint; black paint; red paint.


Analysis of the Emerald-green Spodumene—Hiddenite—from North Caro-
Contributions to Mineralogy. Proceedings American Philosophical Society. August 18th, 1882:

I. 1. Corundum, altered into Spinel.
   2. " " Zoisite.
   3. " " Feldspar and Mica.
   4. " " Margarite.
   5. " " Fibrolite.
   7. When were the Corundum alterations formed?

II. Alteration of Orthoclase into Albite.

III. Alteration of Talc into Anthophyllite.

IV. Talc, pseudomorphous after Magnetite.

V. Gahnite.

VI. Rutile and Zircon from the Itacolumite of Edge Hill, Bucks County, Pa.

VII. Sphalerite and Prehnite, from Cornwall, Lebanon County, Pa.

VIII. Pyrophyllite in Anthracite.

IX. Beryl, from Alexander County, N. C.

X. Allanite.

XI. Niccolite, from Colorado.

XII. Artificial Alisonite.


On Herderite. Read before the American Philosophical Society. October 17th, 1884.


This latter paper was sent to Prof. vom Rath as far as the description of the minerals and their analyses are concerned before the English paper was written, which was done in the early part of April, when I received Prof. vom Rath's crystallographic work. The German paper was published several months later. They are only in part identical.

Tabulated List of 138 Fertilizer Analyses. Published in July, September, and November by the Pennsylvania Board of Agriculture. 1885.
WILLIAM GOODELL, M.D.

A Year's Work in Ovariotomy. 1883 and 1884.
Three Stubborn Cases of Vesico-Vaginal Fistula treated without the Use of the Catheter. Medical News.
Inflammation of the Parotid Glands, following Operations on the Female Reproductive Organs. Read before the American Gynæcological Society.
A paper on The Diseases on the Ovaries and Their Treatment, for Dr. Pepper. System of Medicine.

J. I. CLARK HARE, LL.D.


LEWIS M. HAUPt, A.M., C.E.

Articles on Aqueducts, Asphalt, Bricks, Bridges, Blasting, Artesian Wells, etc., in Encyclopedia Americana, Supplement to the Encyclopedia Britannica.
How to Establish a True Meridian. February, 1882.
Repairs to the Traction Co.'s Conduit. 10 pp., for Engineers' Club. July, 1885.
Harbor Studies. A Consideration of the Bar Building Forces of the At-
Atlantic and Gulf Coast, with their Remedies. Engineers' Club Proceedings. 1886.

WILLIAM BARTON HOPKINS, M.D.

The Roller Bandage. J. B. Lippincott & Co.


Cases Illustrating Some Forms of Injuries to the Arm, resulting from Muscular Violence. Published in the Medical Times. March 24th, 1883.

Case of Resection of the Radius, Performed by Dr. John Rhea Barton in 1828. Exhibited at the College of Physicians. April 3d, 1883. Published in the Medical News. April 14th, 1883.

On Nutritive Dressing of Large Granulating Surfaces. Therapeutic Gazette. 1885.

Case of Compound Depressed Fracture of the Skull, with Wound of the Longitudinal Sinus; Trephining; also Fracture of the Spinous Process of the Ninth Dorsal Vertebra; Recovery; Note on the Construction of the Trephine. Annals of Surgery. 1885.

A New Method of Strapping the Testicle. Philadelphia Medical Times. 1885.


H. H. HOSKINS, V.S.


EDMUND J. JAMES, PH.D.

In Lalor's Encyclopedia of Political Science and Political Economy the following articles:


Article on the Greek Question in Germany. In the Popular Science Monthly, for January, 1883.

Contributions on Educational Topics to the New England Journal of Education, and to other Educational periodicals.

Contributions to the Jahrbuecher der Nationalökonomie und Statistik, Jena, and to the Meyer's Conversationslexikon, Leipzig.
Papers on the City Government of Philadelphia and the Ideal School of Political Science, delivered before the National Social Science Association.
Lectures on Bismarck, Socrates, The Relations of the Church and the College, The True Functions of Government, Administrative and Financial Aspects of Public Education, The German University, and on other subjects, delivered before various public bodies, at different times.

HERMANN A. KELLAR, B.S.


GEORGE A. KÖNIG, PH.D.


On Manganeseferrite, a New Species. Ibid. May, 1885.


JOSEPH LEIDY, M.D., LL.D.

In the proceedings of the Academy of Natural Sciences, for 1882:
Remarks on Rock Specimens.
Filaria of the Black Bass.
On Tourmalines.
On Balanoglossus.
Scolithus in gravel.
On Sagitta, etc.
On Entozoa of Birds.
On a Coprolite and a Pebble resembling an Indian Hammer.
On Bacillus anthracis.
On Enchytraeus, Distichopus and their parasites.
The Yellow Ant and its flocks of Aphis and Coccus.
Colorless Garnet and Tourmaline.
On Balanus, etc., at Bass-Rock, Mass.
On the Tobacco-Worm, etc.  
Rotifera without Rotary Organs.  
A New Infusorian of the Genus Pyxicola.  
Actinosphaerium Eichhornii.  
On Topaz and Biotite.  
On Actinosphaerium, etc.  
On Tubularia, etc., from Atlantic City.  
On Remains of Horses.  
On an extinct Peccary.  

Proceedings for 1883:  
On Pediculus vestimenti.  
A Flint Nodule from the Greensand of New Jersey.  
A Social Heliozoon.  
Manayunkia speciosa, a fresh water Cephalobranchiate Annelide.  
A Fungus infesting Flies.  

Proceedings for 1884:  
Ant infested with a Fungus.  
Fossil bones from Louisiana.  
Foraminifera in the Drift of Minnesota.  
Distoma and Filaria.  
Vertebrate fossils from Florida.  
A rare human Tapeworm.  
Pentastomum proboscideum.  
Organisms on Ice.  
Urnatella gracilis.  

Proceedings for 1885:  
On some Parasitic Worms of Birds.  
Rhinoceros and Hippotherium from Florida.  
Remarks on Mylodon.  
Bothriocephalus in a Trout.  
Worms in Ice.  
Journal of the Academy, 1884:  
Urnatella gracilis, a fresh water Polyzoon.  
In a System of Practical Medicine, 1885:  
Intestinal Worms.  
In Science. Cambridge, 1883, 1885:  
A Study of the human Temporal Bone.
An Extinct Hydroid.  
A Parasitic Leech.

In Museum. Philadelphia, 1885:

Planarians.  

JAS. HENDRICK LLOYD, M.D.


Report of a Rare Case of Pseudo-Hypertrophic Muscular Paralysis, with Interesting Bone Lesions, to Philadelphia Neurological Society. April, 1884.


Clinical Lecture on Reactions of Degeneration (to Fourth Year Class). Philadelphia Medical Times. February 7th, 1885.


WILLIAM D. MARKS, PH.B., C.E.

Report on Steam Boilers. Franklin Institute Electrical Exhibition. 1884.

Report on Steam Engines. Franklin Institute Electrical Exhibition. 1884.

Report on the Efficacy and Duration of Incandescent Electric Lights. Franklin Institute, 1885.

Report on the Efficiency of Dynamo Electric Machines. Franklin Institute, 1885.

JOHN MARSHALL, M.D., NAT.SC.D.

Bestimmung des Molekulargewichts vom Hundehämoglobin durch Ver-

J. G. R. McElroy, A.M.


J. B. McMaster, A.M.


Charles K. Mills, M.D.


Reflections on Criminal Lunacy, with Remarks in the Case of Guiteau. Transactions of the Pennsylvania State Medical Society for 1882.

Notes on Twelve Cases of Brain Tumor, Chiefly with Reference to Diagnosis. Archives of Medicine. August, 1882.


The Methodical Examination of the Brain. Transactions of the Pathological Society of Philadelphia. 1883. Also Medical and Surgical Reporter, June 23d, 1883; and other Journals.


The Medical Service of Insane Hospitals. Transactions of the Pennsylvania State Medical Society. 1883.

Illustrations of Local Hysteria, with Remarks on Diagnosis and Treatment. The Polyclinic for September and October, 1883.


Clinical Lecture on Some Forms of Insanity—Syphilitic Dementia—Dementia Paralytica of Uncertain Origin—Alcoholic Dementia. Medical and Surgical Reporter. December 1st, 1883.

The Treatment of Hysterical Paralysis by Rest, Massage, and Electricity. Medical and Surgical Reporter. February 9th, 1884.

Organic Hemianesthesia, etc. Medical and Surgical Reporter. February 23d, 1884, and March 1st, 1884.


Tumor of the Brain—Autopsy. Medical and Surgical Reporter. August 2d, 1884.

A Case of Dupuytren's Contraction. The Polyclinic. September, 1884.


Miscellaneous Reviews and Book Notices in the American Journal of the Medical Sciences, Medical News, Polyclinic, Medical and Surgical Reporter, and The American.


Notes on Treatment of Epilepsy. Medical Bulletin. December 22d, 1884.

A Series of Lectures on Insanity. Medical and Surgical Reporter. February to September, 1885.

A Case of Nymphomania. Medical Times. April 18th, 1885.

Note on the Successful Treatment of a Severe Case of Chorea. The Polyclinic. May 15th, 1885.
Hystero-Epilepsy in the Male, etc. Medical Times. May 30th, 1885.
Clinical Lectures on Some Forms of Myelitis, etc. Medical News.
August 15th and 22d, 1885.
Facial Paralysis—Pelvic Tumor Simulating Sciatica. The Polyclinic.
August 15th, 1885.
Acute Mania and Hysterical Mania. Medical Times. November 28th, 1885.

S. Weir Mitchell, M.D.
Researches on the Venom of the Gila Monster—Heloderma Horridum—
With E. T. Reichert, M.D.
Preliminary Report on the Venom of Serpents. With E. T. Reichert, M.D.

Rev. F. A. Muhlenberg, D.D.
Semi-Centennial Address at the Fiftieth Anniversary of the Founding of
Review of Sihler’s Plato’s Protagoras. Lutheran Church Review.
Christianity and the Greek Language. The Lutheran.
Obituary Memoirs of Rev. Dr. C. P. Krauth, Vice-Provost of the University
A Lecture on Rhodes. Before the Students of Muhlenberg College,
Allentown, Pa.
Many Contributions on Religious, Scientific, and Literary Topics to “The
Lutheran.”

J. B. Murdock, U. S. N.
Naval Use of the Dynamo Machine and Electric Light. Proceedings of
Induced Currents in a Magnetic Field. Van Nostrand’s Engineering

J. H. Mussel, M.D.
Transactions of Pathological Society, 1882, 1883 and 1884. Philadelphia Medical Times, Medical News, and other journals.
1. Aneurism of the Aorta, etc. December, 1883.
3. A Case of Pleuro-Pneumonia. December, 1883.
5. Dilated Heart, etc., two Cases of. September, 1883.
7. Enlarged Prostate, two Cases of. February, 1884.
8. Sarcoma of Skin and Lymphatics. April, 1884.
9. Atheroma and Aneurism of Aorta, etc. October, 1884.

Transactions of the Philadelphia County Medical Society, 1883 and 1884.

Further Notes on Hamamelis.
On Paroxysmal Fever, Non-malarial.
On Idiopathic Anæmia; a report of three cases, etc.
Report of a Case of Purulent Pericarditis.

Transactions of the College of Physicians. 1884 and 1885.

2. Report on a Case of Ulcerative Endocarditis and of a Case of Peri-
carditis.


On Acute Yellow Atrophy, Red Atrophy, and Hypertrophic Cirrhosis of


Article on Progressive Pernicious Anæmia. Encyclopaedia of the Prac-
tice of Medicine (Wood's).

REV. RICHARD NEWTON, D.D.

Covenant Names and Privileges. Sermon for Adults.
The Heroes of the Reformation. American Sunday School Union. 1885.
Bible Promises. Sermons for Children. Robert Carter & Bros.,
New York. 1884.
1884.

These last two volumes are now being translated and published in the Arabic language at
Bairut, Syria.

WM. F. NORRIS, M.D.

A Case of Embolism of a Branch of the Central Retinal Artery. American
Journal of Medical Sciences. October, 1884.

*Hereditary Atrophy of the Optic Nerves. 2d paper. American Oph-
thalmical Society. 1884.


On the Relation between the Earlier Stages of Gray Degeneration of the Optic Nerves and Increase or Diminution of the Patellar Tendon Reflex (Knee Jerk). American Ophthalmical Society. 1885.

**WILLIAM OSLER, M.D.**


On the Morbid Anatomy of Pneumonia. Canada Medical and Surgical Journal. April, 1885.


**WILLIAM PEPPER, M.D., LL.D.**

System of Practical Medicine, written by American Authors. Vols. I, II, III and IV.


Lectures on Renal Diseases. Medical Times. 1882.

Memoir of Jno. F. Meigs, M.D. Read before the American Philosophical Society. 1883.


Address on Epilepsy. Proceedings American Medical Association. 1884.

Force vs. Work: Some Practical Remarks on Dietetics in Disease. Transactions of the Medical and Chirurgical Faculty of Maryland. 1884.


**GEORGE A. PIERSOL, M.D.**


Practical Work in Medical Microscopy. Western Medical Reporter, March and July, 1882.


Review of Rindfleisch’s Elements of Pathology. Western Medical Reporter. 1884.


Review of Lee’s Microtomist’s Vade-Mecum. Western Medical Reporter. 1885.


N. ARCHER RANDOLPH, M.D.


An Examination of the Feces of Twenty Persons Receiving Inunctions of Cod-Liver Oil. With A. E. Roussel, M.D. Philadelphia Medical Times. 1883.


A Preliminary Note on a Reaction Common to Peptone and Bile-Salts. Proceedings Academy of Natural Sciences. 1884.

A Note on the Behavior of Hydrobromic Acid and of Potassium Iodide in the Digestive Tract. Read before the Philadelphia Neurological Society. April 28th, 1884.


JOHN J. REESE, M.D.


EDWARD T. REICHERT, M.D.


ELLIOTT RICHARDSON, M.D.

A Course of Obstetric Demonstration on the Manikin and Cadaver, to the Third Year Class.

A Spring Course of Lectures on Practical Obstetrics, to the whole Class. Preliminary Course of Lectures, to the whole Class, during September.

A Course of Lectures and Demonstrations on Obstetrics, to the Fourth Year Class.
Lectures, to the Second, Third and Fourth Years' Classes, for Professor Penrose, at his hours, and in connection with his Course.

JOSEPH G. RICHARDSON, M.D.


Is Chronic Trichinosis a Common and Serious Disease? Western Medical Reporter. July, 1882, p. 256.

Why Sewer-traps are Unreliable, and How to apply the Ounce of Prevention against Disease Germs in Sewer Gas. Philadelphia Medical News. September 2d, 1882, p. 256.


S. D. RISLEY, A.M., M.D.

Recurrent Iritis. Transactions of the Philadelphia County Medical Society. 1884.


Six Additional Cases (as above). Same. 1885.


A. SYDNEY ROBERTS, M.D.

Chronic Articular Osteitis of the Knee-joint, and Description of a New Mechanical Splint. Published in Transactions. Read before the

The Spinal Arthropathies. (A Clinical Report of Six Cases of Charcot’s Joints.) Read by invitation at a Meeting of the Neurological Society of Philadelphia, January 26th, 1885. Published in Medical News. February 14th, 1885.

A Paper on Synostosis of the Vertebral Column. Pathological Society. February 26th, 1885. Published in Boston Medical and Surgical Journal. April 9th, 1885.


ROBERT PATTERSON ROBINS, M.A., M.D.


"Writers' Cramp," and its Treatment, with the Notes of several Cases. American Journal of the Medical Sciences. April, 1885.


A Short Account of the First Permanent Tramway in America, Privately printed. Philadelphia. 1884.

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JOSEPH T. ROTHROCK, M.D., B.S.

Microscopic Differences between Good and Bad Wood of the Same Species. American Philosophical Society.
Pear Grit as a Cause of Anal Disease. Medical and Surgical Reporter.
Notice of Dr. Findley’s Remarks on Medical Education at Meeting of State Medical Society held in Norristown. American.
Articles—Bone-set, Cascarilla, Cereals, Colocynth, Dogwood, Dulse, Chestnut, Coniferæ, Blight, Botany, Forestry. Stoddart’s American Supplement to British Encyclopedia.
Laboratory Contributions from the Course Preparatory to Medicine in

SAMUEL P. SADTLER, PH.D.


Articles on Acetic Acid Manufacture; Acid; Aconite; Alcohol; Alizarine, artificial; Alkaloids; Aluminium; Chemical Analysis (in part). Written for Vol. I of Stoddart's Encyclopaedia Americana. Now going through the press.


Valedictory Address—Class of 1885, Philadelphia College of Pharmacy. Philadelphia. April, 1885.

REV. C. W. SCHÆFFER, D.D.


Catechisation of the Young. Same Review. April, 1882.

Tribute to the Memory of Dr. C. P. Krauth. Same Review. April, 1883.

Halle Reports, with extensive historical, critical and literary Annotations and numerous Documents, copied from MSS. in the Archives of the Francke Institutions at Halle, Germany, translated from the German. Vol. I. 8vo. pp. 220;—but a small part of the whole work, which is still being prosecuted. Published May, 1882.

Translations of W. W.'s Life of Martin Luther. Published August, 1883.

Metrical Translation of the Wittenberg Nightingale, by Hans Sachs.

OSWALD SEIDENSTICKER, PH.D.


Ephrata. Eine amerikanische Klostergeschichte. 8vo. 141 pp. (Reprint from the "Deutsche Pionier.") Cincinnati. 1884.

CARL SEILER, M.D.

The Use of the Cresson Waters in the Treatment of Catarrhal Diseases, etc.
Read before the American Medical Association, and published in the Journal.

A New Electric Laryngoscope. Read before the Pennsylvania State Medical Society, and published in its Transactions.

Chapter on Physiology of Speech, in Cyclopaedia of Dentistry. (In preparation.)


Nasal Catarrh. Practitioner, Lancaster. April, 1883.

A New Universal Battery. Medical and Surgical Reporter. April 23rd, 1883.


Chapter on Laryngology and Rhinology. System of Medicine, Pepper. 1885.

BENJAMIN SHARP, M.D.


HENRY H. SMITH, M.D.

The Importance and Usefulness of Scientific Medical Organizations to the

ROBERT MEADE SMITH, M.D.

Hermann's Experimental Pharmacology. Translated with Notes and extensive additions. H. C. Lea & Co.


The Time Required by the Blood for Making one Complete Circuit of the Body. American Journal of the Medical Sciences. April, 1884.


Ueber die Resorption im Magen. Ditto.


Articles—Circulation, and Death, in American Supplement to Encyclopaedia Britannica.


LOUIS STARR, M.D.


Diseases of the Pancreas. American System of Medicine, Vol. II. 1885.

HENRY W. STELWAGON, M.D.


Acne Indurata; its Treatment. Journal of Cutaneous and Venereal Diseases. February, 1884.

The Oleates in Cutaneous Diseases. Medical and Surgical Reporter. March 15th, 1884.
Iodide of Potassium in Eczema. Medical News. April 11th, 1885.
A Case of Late Cutaneous Syphilis (Acne-like Syphiloderm of the Nose), illustrating the Occasional Necessity of Large Doses of Potassium Iodide. Medical News. June 27th, 1885.

ALFRED STILLÉ, M.D., LL.D.
Introductory Lecture to the Course of 1883–84. Philadelphia Medical Times, XIV, 41.
Valedictory Lecture, delivered in April, 1884. Medical News, XLIV, 433.
Epidemic Cerebro-Spinal Meningitis. Pepper’s System of Medicine. 1884.
Cholera. Same. 1884.
Address as President of the College of Physicians. Transactions of the College. 1884.

L. DUPONT SYLE, B.A.
United States Consular Reports.—
No. 25. The Wine Trade of Madeira.
" 27. Madeira Embroidery.
Taxation in Madeira.
" 35. Shipping Interests and Proposed Breakwater at Funchal.
" 41. Population and Sanitary Condition of Madeira (with Medical Tables).

REV. R. E. THOMPSON, M.A.


Relief of Local and State Taxation through the Distribution of the National Surplus. Pp. 28. Philadelphia. 1883.


Finally, Brethren, Farewell! A Baccalaureate Sermon Preached before the Graduating Class of the University of Pennsylvania, on Sunday Evening, June 10th, 1883, in the Second Presbyterian Church of Philadelphia. Pp. 11. Philadelphia. 1883.

JAMES TRUMAN, D.D.S.


Brief review of Zahntechnischer Kalender. Same number. Cosmos.


Iodoform in Dentistry. Read before the State Dental Society. August, 1883. Cosmos. 1883.


Discoloration of Teeth and Treatment. System of Dentistry. Lea Brothers & Co. (Not out.)

JAMES TYSON, M.D.


Malarial Hematuria. The address on Medicine read before the Medical Society of the State of Pennsylvania, at its Meeting held at Norristown. May 9th, 1883.


Higher Medical Education. A Valedictory Address delivered at the Commencement Exercises closing the 116th Annual Session of the Medical Department, and the 5th of the Dental Department of the University of Pennsylvania, March 15th, 1882. Penn Monthly. April, 1882.


Percentage of College Bred Men among Medical Students. A letter to the New York Medical Record. September 30th, 1882.


Remarks on so-called Nervous Prostration. A Discussion at Philadelphia County Medical Society. Medical and Surgical Reporter. January 26th, 1884.


The Milk Treatment of Disease. Read before the American Medical


Clinical Lecture on Tapeworm. Medical News. March 7th, 1885.

Article on Diabetes Mellitus. Pepper's System. May, 1885.

Article on Malarial Hematuria.

Article on Chyluria.

ARTHUR VAN HARLINGEN, M.D.


The Care of the Person. Buck's Treatise on Hygiene. 1879.


A Case of Tuberculo-Vesicular Disease of the Skin. Archives of Dermatol., Vol. VI, p. 121. 1880.


Notes on One Hundred Consecutive Cases of Skin Disease Treated at the Philadelphia Polyclinic. The Polyclinic. July, August and November, 1883.
Two Cases of Herpes of somewhat Unusual Character. The Polyclinic. April, 1884.
Handbook of the Diagnosis and Treatment of Skin Diseases. Philadelphia. 1884.
A Clinical Conversation on some Points in Dermatology. Polyclinic. May, 1885.
Experiments in the Use of Pastes in the Treatment of Skin Diseases. Polyclinic. August, 1885.

H. R. Wharton, M.D.

Bubon d'Emblée Venereal Warts, Pseudo-Venereal Affections, etc. International Encyclopaedia of Surgery. Vol. II.
Report of a Post-Mortem Examination in a Case of Recurrent Hip-Disease, in which Subcutaneous Osteotomy had been Successfully Performed Eight Months before Death. Medical News. October 20th, 1883.
Report of Three Cases of Foreign Bodies in the Trachea or Larynx. Tracheotomy in Diphtheritic Group. Transactions County Medical Society. 1885.
Osteotomy for the Correction of Deformities of the Lower Extremities. Transactions State Medical Society. 1885.
J. WILLIAM WHITE, M.D.

A Review of some of the more Important Surgical Problems of President Garfield’s Case. Medical News. 1883.


The Operative Treatment of Purulent Pleural Effusions. Medical and Surgical Reporter. June, 1884.


Article on Hereditary Syphilis. Pepper’s System of Medicine. 1885.

Treatment of Gonorrhæa. Medical and Surgical Reporter. March, 1885.


Article on Concussion. Vol. II. Ditto.

DE FOREST WILLARD, M.D.


(A Lecture on Ambulance Service and the Transportation of Wounded, delivered in the Academy of Music, April 30th, 1883.

Club-foot—Simple Measures for its Early Relief. Transactions State Medical Society, Pennsylvania, 1883, and Philadelphia Medical News, May 12th, 1883; also Medical and Surgical Reporter, May 12th, 1883; also Pamphlet form.

Club-foot—Is Resection of the Tarsus Necessary in Children? Transactions Medical Society of Pennsylvania, 1884, and Medical News, May, 1884; also Philadelphia Medical and Surgical Reporter. May, 1884; also Monograph.

Adherent and Contracted Prepuce. Transactions Philadelphia County Medical Society, 1883; also Philadelphia Medical Times, April 11th, 1883; also Monograph.

Obstinate Constipation with Intestinal Dilatation. Transactions Philadelphia County Medical Society, 1883, also Philadelphia Medical Times, May, 1883.


Joint-Diseases, Treatment by Rest and Fixation. Reprint from New York Medical Journal. December 5th, 1885. (Address before the Lehigh Valley Medical Association.)

Horatio C. Wood, M.D., LL.D.

Clinical Aspect of Cerebral Syphilis. 30 pages. Transactions of College of Physicians.


W. L. Zuill, M.D.

Report of the Treasurer

of the

University of Pennsylvania.

August 31, 1885.
REAL ESTATE, STOCKS, BONDS, ETC.

Belonging to the Several Funds of the University of Pennsylvania.

**GENERAL FUND, $1,095,440 03.**

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Amount uninvested, $1,095,440 03

**ELLIOT CRESSON FUND, $6,738.**

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Amount uninvested, $6,738 00

**KEBLE FUND, $13,208 62.**

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<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4,000.00 Real Estate, 29 N. Seventh St.</td>
<td></td>
<td>$4,000.00</td>
<td>$300.00</td>
</tr>
<tr>
<td>4,000.00 Ground Rent, 29 N. Sixth St.</td>
<td></td>
<td>4,000.00</td>
<td>1180.00</td>
</tr>
<tr>
<td>2,500.00 Ground Rent, 29 N. Sixth St.</td>
<td></td>
<td>2,500.00</td>
<td>150.00</td>
</tr>
<tr>
<td>426.67 363 N. Front St.</td>
<td></td>
<td>426.67</td>
<td>25.60</td>
</tr>
<tr>
<td>426.67 365</td>
<td></td>
<td>426.67</td>
<td>25.60</td>
</tr>
<tr>
<td>426.67 367</td>
<td></td>
<td>426.67</td>
<td>25.60</td>
</tr>
<tr>
<td>111.11 Green St.</td>
<td></td>
<td>111.11</td>
<td>6.67</td>
</tr>
<tr>
<td>1,700.00 Schuylkill Navigation 68, 1907</td>
<td></td>
<td>1,317.50</td>
<td>85.00</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$13,208.62</td>
<td>$798.47</td>
</tr>
</tbody>
</table>

**TODIUS WAGNER FUND, $5,300.**

<table>
<thead>
<tr>
<th>Description</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,300.00 Delaware &amp; Raritan Canal 68, 1889</td>
<td></td>
<td>$5,300.00</td>
<td>$318.00</td>
</tr>
</tbody>
</table>

*Interest in default.
†Less Taxes and Repairs.
<table>
<thead>
<tr>
<th>Fund</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BLOOMFIELD MOORE FUND, $10,000.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000 00 Store, 58 N. Fourth St., (value, $20,000 one-half interest,)</td>
<td>$10,000 00</td>
<td>$800 00</td>
</tr>
<tr>
<td><strong>THOMAS A. SCOTT FUND, $50,000.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$50,000 00 Texas &amp; Pacific 6s, 1905,</td>
<td>$50,000 00</td>
<td>$3,000 00</td>
</tr>
<tr>
<td><strong>JOHN WELSH FUND, $50,000.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$7,000 00 Philadelphia &amp; Reading R. R., gen. mort., 7s, 1905,</td>
<td>$7,000 00</td>
<td>$490 00</td>
</tr>
<tr>
<td>$27,000 00 N. Y., Lake Erie &amp; Western Trust Certificates, 1922,</td>
<td>27,000 00</td>
<td>1,620 00</td>
</tr>
<tr>
<td>$6,000 00 Elmira &amp; Williamsport R. R. 5s, 1962,</td>
<td>6,000 00</td>
<td>500 00</td>
</tr>
<tr>
<td>$10,000 00 Morris Canal &amp; Banking Co. 7s, 1885,</td>
<td>10,000 00</td>
<td>700 00</td>
</tr>
<tr>
<td><strong>A. WHITNEY FUND, $50,000.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$2,000 00 Pennsylvania Railroad consol. mort., reg., 1905,</td>
<td>$1,924 00</td>
<td>$120 00</td>
</tr>
<tr>
<td>$20,000 00 Philadelphia &amp; Reading gen. mort. 6s, 1908,</td>
<td>$19,125 00</td>
<td>$1,200 00</td>
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<tr>
<td>$1,000 00 Susquehanna Coal Co. 6s, 1911,</td>
<td>1,000 00</td>
<td>60 00</td>
</tr>
<tr>
<td>$10,000 00 Sunbury, Hazleton &amp; Wilkesbarre R. R. 5s, 1928,</td>
<td>9,270 00</td>
<td>500 00</td>
</tr>
<tr>
<td>$1,000 00 Salem R. R. 1st mort. 6s, 1887,</td>
<td>1,000 00</td>
<td>60 00</td>
</tr>
<tr>
<td>$2,000 00 Railway Car Trusts of Pennsylvania,</td>
<td>2,000 00</td>
<td>100 00</td>
</tr>
<tr>
<td>$5,000 00 Union Pacific R. R. bonds 6 per cent., June, 1896,</td>
<td>5,000 00</td>
<td>300 00</td>
</tr>
<tr>
<td>$5,000 00 Pittsburgh, Cincinnati &amp; St. Louis 7s, 1900,</td>
<td>5,000 00</td>
<td>350 00</td>
</tr>
<tr>
<td>$3,000 00 Philadelphia &amp; Reading R. R. Consolidated 7s, 1911,</td>
<td>3,000 00</td>
<td>210 00</td>
</tr>
<tr>
<td>$1,000 00 Texas Pacific consol. mort. 6s, 1905,</td>
<td>840 00</td>
<td>60 00</td>
</tr>
<tr>
<td>$1,150 00 Lehigh Valley R. R. stock, 23 shares,</td>
<td>1,322 50</td>
<td>46 00</td>
</tr>
<tr>
<td>Amount uninvested,</td>
<td>$49,481 50</td>
<td>$3,006 00</td>
</tr>
<tr>
<td><strong>DEPARTMENT OF APPLIED ORGANIC CHEMISTRY FUND, $15,483 53.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000 00 International Navigation Co. 6s, 1901,</td>
<td>$10,000 00</td>
<td>$600 00</td>
</tr>
<tr>
<td>$5,000 00 Mortgage Willow Grove Turnpike, Mont'g. Co., Pa.,</td>
<td>5,000 00</td>
<td>250 00</td>
</tr>
<tr>
<td>Amount uninvested,</td>
<td>$15,000 00</td>
<td>$850 00</td>
</tr>
<tr>
<td><strong>J. H. TOWNE ESTATE, $223,973 55.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$10,000 00 Lehigh Valley, reg. 7s, 1910,</td>
<td>$10,800 00</td>
<td>$700 00</td>
</tr>
<tr>
<td>$4,400 00 stock, 88 shares,</td>
<td>5,280 00</td>
<td>264 00</td>
</tr>
<tr>
<td>$800 00 pfd. stock, 16 shares,</td>
<td>800 00</td>
<td>80 00</td>
</tr>
<tr>
<td>$4,000 00 Philadelphia &amp; Reading convt. 7s, 1893,</td>
<td>4,240 00</td>
<td>280 00</td>
</tr>
</tbody>
</table>

† Less taxes and repairs.
* Interest in default.
Par Value  Cost  Yearly Income.
$2,000.00  Philadelphia & Erie R. R., 1888.  $1,800.00  $140.00
15,000.00  Crane Iron Co. stock, 300 shares,  15,000.00
4,200.00  Washington Mfg. Co. stock, 14 shares,  4,200.00  126.00
500.00  American Dredging Co. stock, 5 shares,  500.00  15.00
800.00  Brooklyn Gas Light Co. stock, 32 shares,  1,600.00  160.00
1,000.00  Sunbury, Hazleton & Wilkesbarre R. R., 1928,  1,040.00  50.00
3,000.00  Mortgage, Manchester, Mass.,  3,000.00  150.00
5,000.00  "  "  S. E. cor. 17th St. and Columbia Ave.,  5,000.00  250.00
2,500.00  "  "  520 S. Third St. and 308 Gaskill St.,  2,500.00  125.00
100,716.00  Ground Rent, Wicacoae Ave. and Delaware River,  100,716.00  5,035.80
8,400.00  Note, A. H. Emory,  8,400.00
Real Estate, First Ward, Philadelphia,  40,000.00
" " Manchester, Mass.,  13,065.22
" " Elk and McKeans Counties, Penn., about 700 acres,  5,054.71
Amount uninvested,  $222,955.93  $7,375.80
977.62

$223,973.55

J. H. TOWNE COLLECTION OF AMERICAN FOSSILS, $5,000.
Fossils,  $1,200.00
Amount uninvested,  3,500.00
$5,000.00

SCHOLARSHIP FUNDS.
Benjamin Franklin Scholarship, $10,000.00
Samuel V. Merrick Scholarship, 3,500.00
Hector Tyndale Scholarship, 10,800.00
$7,500.00  Norfolk & Western 6s, 1932,  $7,500.00  $450.00
6,000.00  N. Y., Lake Erie & Western R. R. Trust Certificates,  6,000.00  360.00
$13,500.00  $510.00
10,800.00
$24,300.00

ADAM SEYBERT CHAIR OF MORAL AND INTELLECTUAL PHILOSOPHY FUND, $50,000.
$50,000.00  Raleigh & Gaston R. R., 8a, 1898,  $50,000.00  $4,000.00

REESE WALL FLOWER ESTATE, $84,139.10.
$2,000.00  Catawissa R. R. bonds, at 5%, extended,  $2,000.00  $100.00
2,000.00  Belvidere & Delaware R. R., 6a, 1887,  1,920.00  120.00
5,000.00  West Jersey 1st mort. bonds, 1896,  5,100.00  300.00
13,500.00  Ground Rent, First Ward, Moore and Otsego Streets,  13,500.00  675.00
11,790.00  Ground Rent, Swanson and Mifflin Streets,  11,790.00  589.50
4,000.00  Mortgage, 752 and 754 South Eighth Street,  4,000.00  200.00
30,000.00  Real Estate, Delaware Co.,  30,000.00  1,000.00
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,000 00 Real Estate, First Ward, Moore Street</td>
<td>$5,000 00</td>
<td>$90 00</td>
</tr>
<tr>
<td>1,800 00 Mortgage, 918 S. Sixteenth Street</td>
<td>1,800 00</td>
<td>51 00</td>
</tr>
<tr>
<td>850 00 Lehigh Valley R. R. Stock, 17 shares</td>
<td>1,096 50</td>
<td>135 00</td>
</tr>
<tr>
<td>6,000 00 Charity School Building</td>
<td>6,000 00</td>
<td>144 00</td>
</tr>
<tr>
<td>1,800 00 Dwelling, 224 Stamper St.</td>
<td>1,800 00</td>
<td>144 00</td>
</tr>
<tr>
<td>Amount uninvested,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$84,066 50</td>
<td>$3,619 50</td>
</tr>
</tbody>
</table>

**SOLOMON W. ROBERTS FUND, $1,220 65.**

| $1,200 00 Schuylkill Navigation 6s, 1907 | $1,081 75 | $60 00    |
| Amount uninvested,                      |          |            |
|                                        | $1,220 65 |            |

**HENRY REED PRIZE FUND, $700 12.**

| $700 12 Cash uninvested                 | $700 12  |
|                                        |         |

**LATIN PRIZE FUND, $1,018 12.**

| $1,018 12 Cash uninvested               | $1,018 12 |
|                                        |          |

**ORATORY PRIZE FUND, $357 14.**

| $357 14 Cash uninvested                 | $357 14  |
|                                        |          |

**ENGLISH COMPOSITION PRIZE FUND, $200.**

| $200 00 Cash uninvested                 | $200 00  |
|                                        |          |

**J. WARNER YARDLEY PRIZE FUND, $500.**

| $500 00 Cash uninvested                 | $500 00  |
|                                        |          |

**J. HERMAN RAHT FUND, $250 00.**

| $250 00 in Cash uninvested              | $250 00  |
|                                        |          |

**Summary of Funds Belonging to the Departments of Arts and Science.**

| General Fund                           | $1,095,440 03 | $573 85 |
| Elliot Cresson Fund                    | 6,738 00      | 413 00  |
| Keble Fund                             | 13,208 62     | 798 47  |
| Tobias Wagner Fund                     | 5,300 00      | 318 00  |
| Bloomfield Moore Fund                  | 10,000 00     | 800 00  |
| Thomas A. Scott Fund                   | 50,000 00     | 3,000 00|
| John Welsh Fund                        | 50,000 00     | 3,110 00|
| A. Whitney Fund                        | 50,000 00     | 3,006 00|
| Department of Applied Organic Chemistry Fund | 154,835 53  | 850 00  |
| J. H. Towne Estate Fund                | 223,973 55    | 7,375 80|

† Less taxes and repairs.
<table>
<thead>
<tr>
<th>Fund Name</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholarship Fund</td>
<td></td>
<td>$13,500 00</td>
<td>$810 00</td>
</tr>
<tr>
<td>Hector Tyndale Scholarship Fund</td>
<td></td>
<td>10,800 00</td>
<td></td>
</tr>
<tr>
<td>Adam Seybert Fund</td>
<td></td>
<td>50,000 00</td>
<td>4,000 00</td>
</tr>
<tr>
<td>Reese Wall Flower Estate Fund</td>
<td></td>
<td>84,139 10</td>
<td>3,619 50</td>
</tr>
<tr>
<td>Sundry Prize Fund</td>
<td></td>
<td>4,246 03</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $1,682,328 86, $28,674 62

### WHARTON SCHOOL FUND, $100,000.

- $50,000 00 Schuylkill Navigation 6s, 1907
- 50,000 00 Delaware & Bound Brook Railroad stock, 500 shares

<table>
<thead>
<tr>
<th>Fund Name</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schuylkill Navigation 6s, 1907</td>
<td></td>
<td>$50,000 00</td>
<td>$3,000 00</td>
</tr>
<tr>
<td>Delaware &amp; Bound Brook Railroad stock, 500 shares</td>
<td></td>
<td>50,000 00</td>
<td>4,000 00</td>
</tr>
</tbody>
</table>

**Total:** $100,000 00, $7,000 00

### VETERINARY FUND, $29,495 94.

- Real Estate, Veterinary Building
- Perpetual Insurance, amount to be refunded if policies are cancelled
- Furnishing Veterinary Building

<table>
<thead>
<tr>
<th>Fund Name</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real Estate, Veterinary Building</td>
<td></td>
<td>$25,358 56</td>
<td></td>
</tr>
<tr>
<td>Perpetual Insurance</td>
<td></td>
<td>270 00</td>
<td></td>
</tr>
<tr>
<td>Furnishing Veterinary Building</td>
<td></td>
<td>3,867 38</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $29,495 94

### REV. CHARLES P. KRAUTH MEMORIAL FUND, $353 67.

- $200 00 Lehigh Valley R. R. stock, 4 shares
- Amount uninvested

<table>
<thead>
<tr>
<th>Fund Name</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lehigh Valley R. R. stock, 4 shares</td>
<td></td>
<td>$280 00</td>
<td>$12 00</td>
</tr>
<tr>
<td>Amount uninvested</td>
<td></td>
<td>73 67</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** $353 67

### GENERAL HOSPITAL FUND, $503,226 44.

- $1,000 00 City 6s, new, due 1890
- 10,000 00 " " 1895
- 7,000 00 " " 1899
- 1,000 00 " " 1901
- 1,000 00 " " 1902
- 1,000 00 Millville Manufacturing Co. 7s
- 200 00 Perkionen R. R. 6s, 1887
- 2,500 00 County of St. Louis, Minn., 6s, 1907
- 10,000 00 Northern Central Railway 6s, 1900
- 7,000 00 Pittsburgh, Cincinnati & St. Louis 7s, 1900
- 6,000 00 Elmira & Williamsport Railroad, 5s, 2862
- 5,000 00 Shenandoah Valley R. R. 6s, 1921
- 2,500 00 Wilmington, Columbia & Augusta 6s, 1910
- 1,500 00 ditto stock, 15 shares

<table>
<thead>
<tr>
<th>Fund Name</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>City 6s, new, due 1890</td>
<td></td>
<td>$60 00</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; 1895</td>
<td></td>
<td>600 00</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; 1899</td>
<td></td>
<td>420 00</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; 1901</td>
<td></td>
<td>60 00</td>
<td></td>
</tr>
<tr>
<td>&quot; &quot; 1902</td>
<td></td>
<td>60 00</td>
<td></td>
</tr>
<tr>
<td>Millville Manufacturing Co. 7s</td>
<td></td>
<td>1,000 00</td>
<td>70 00</td>
</tr>
<tr>
<td>Perkionen R. R. 6s, 1887</td>
<td></td>
<td>200 00</td>
<td>12 00</td>
</tr>
<tr>
<td>County of St. Louis, Minn., 6s, 1907</td>
<td></td>
<td>2,500 00</td>
<td>150 00</td>
</tr>
<tr>
<td>Northern Central Railway 6s, 1900</td>
<td></td>
<td>10,000 00</td>
<td>600 00</td>
</tr>
<tr>
<td>Pittsburgh, Cincinnati &amp; St. Louis 7s, 1900</td>
<td></td>
<td>7,000 00</td>
<td>490 00</td>
</tr>
<tr>
<td>Elmira &amp; Williamsport Railroad, 5s, 2862</td>
<td></td>
<td>6,000 00</td>
<td>300 00</td>
</tr>
<tr>
<td>Shenandoah Valley R. R. 6s, 1921</td>
<td></td>
<td>5,000 00</td>
<td>300 00</td>
</tr>
<tr>
<td>Wilmington, Columbia &amp; Augusta 6s, 1910</td>
<td></td>
<td>2,500 00</td>
<td>150 00</td>
</tr>
<tr>
<td>ditto stock, 15 shares</td>
<td></td>
<td>1,500 00</td>
<td>90 00</td>
</tr>
</tbody>
</table>

* Interest in default.
<table>
<thead>
<tr>
<th>Description</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York, Lake Erie &amp; Western Trust Certificates, 5,000 00 ditto for George Robert Ingersoll Bed, Lehigh Valley R. R. Stock, 12 shares, Mortgage, Allen Lane, Germanowntown, Walnut St. E. of 6th, 8th St. N. of Race, Wallace St. S. of 19th St., Chestnut St. E. of 13th, 33d St. N. of Race, 1,343 00, 4,157 00, Mortgage, Cheltenham Township, Montgomery Co., Ground Rent, Stiles St. E. of 19th, Gray's Ferry Road, 1,333 33, 1,050 00, 2,350 42, 257 00, 257 S. Second St., Lebanon, Penna., 1 1/2 bushels, Gray's Ferry Road and Thirtieth St., 2,350 42, 257 00, 2,350 42, 257 S. Second St., Gray's Ferry Road, 1,333 33, 1,050 00, 2,350 42</td>
<td>$15,000 00</td>
<td>$900 00</td>
<td>$15,000 00</td>
</tr>
<tr>
<td>$503,192 01</td>
<td>$12,928 82</td>
<td>$503,226 44</td>
<td></td>
</tr>
</tbody>
</table>

Special Hospital Funds.

DR. GEORGE B. WOOD FUND FOR HAHN WARD, $54,414 00.

<table>
<thead>
<tr>
<th>Description</th>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Rent, Gray's Ferry Road and Thirtieth St., 1,050 00, 1,500 00</td>
<td>$900 00</td>
<td>$54 00</td>
<td>$900 00</td>
</tr>
<tr>
<td>1,050 00, 1,500 00</td>
<td>$1,050 00</td>
<td>63 00</td>
<td></td>
</tr>
</tbody>
</table>

Amount uninvested, 800 00

$503,192 01 $12,928 82 $503,226 44
<table>
<thead>
<tr>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,200   00 Ground Rent, Gray's Ferry Road and Thirtieth St., 4,000</td>
<td>$5,200 00</td>
<td>$312 00</td>
</tr>
<tr>
<td>2,000 00 Mortgage, Henry Bower, 18,800</td>
<td>4,000 00</td>
<td>240 00</td>
</tr>
<tr>
<td>18,800 00 Store, 62 N. Fourth St., 20,000</td>
<td>2,000 00</td>
<td>100 00</td>
</tr>
<tr>
<td>10,000 00 Mortgage, Lancaster and Saunders Aves., 5,000</td>
<td>18,800 00</td>
<td>1,500 00</td>
</tr>
<tr>
<td>5,000 00 Mortgage, Baring St. and Saunders Ave., 5,000</td>
<td>20,000 00</td>
<td>1,550 00</td>
</tr>
<tr>
<td>Amount uninvested, 964</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>$53,450 00</strong></td>
<td><strong>$3,909 00</strong></td>
</tr>
</tbody>
</table>

**ALUMNI WARD FUND, $10,000.**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10,000 00 Lehigh Navigation, gold 6s, 1897, 10,000</td>
<td></td>
<td>$600 00</td>
</tr>
</tbody>
</table>

**MRS. G. W. NORRIS FUND, $10,000.**

$10,000 00 Store, 58 N. Fourth St., 5,000 00 Mortgage, Lancaster and Saunders Aves., 10,000 00 | $10,000 00 | +$800 00 |

**REMEMT FUND, $5,000.**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5,000 00 Columbus &amp; Indianapolis Cen. R. R. 7s, 2d mort., 5,000</td>
<td>$5,000 00</td>
<td>$350 00</td>
</tr>
</tbody>
</table>

**WARD FOR CHRONIC DISEASES FUND, $175,119 18.**

<table>
<thead>
<tr>
<th>Par Value</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$7,000 00 Railroad Equipment Co. 6s, C. C. C. &amp; I. R. R., 1886, 5,000</td>
<td>$6,969 67</td>
<td>$420 00</td>
</tr>
<tr>
<td>5,000 00 Pennsylvania Car Trust 5s, 5,000</td>
<td>5,277 77</td>
<td>250 00</td>
</tr>
<tr>
<td>5,000 00 Central R. R. of New Jersey Car Trust, 1890, 5,000</td>
<td>5,000 00</td>
<td>300 00</td>
</tr>
<tr>
<td>5,000 00 Phila. &amp; Reading R. R. gen. mort. 7s, 1908, 5,000</td>
<td>5,000 00</td>
<td>*350 00</td>
</tr>
<tr>
<td>5,200 11 Ground Rent, Fifteenth and Lombard Streets, 5,200</td>
<td>5,200 11</td>
<td>258 32</td>
</tr>
<tr>
<td>10,000 00 Mortgage, Lancaster and Saunders Aves., 10,000</td>
<td>10,000 00</td>
<td>500 00</td>
</tr>
<tr>
<td>5,000 00 Baring St. and Saunders Ave., 5,000</td>
<td>5,000 00</td>
<td>250 00</td>
</tr>
<tr>
<td>Perpetual Insurance, amt. to be refunded if policies are cancelled, 825</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Real Estate (Gibson Wing), 65,000</td>
<td>65,000 00</td>
<td></td>
</tr>
<tr>
<td>(Dr. George Pepper Bed, $5,000.) 5,000</td>
<td>5,000 00</td>
<td>300 00</td>
</tr>
<tr>
<td>(A. J. Drexel Bed, $5,000.) 5,000</td>
<td>5,000 00</td>
<td>*350 00</td>
</tr>
<tr>
<td>(Rosalie Benson Bed, $5,000.) 5,000</td>
<td>5,000 00</td>
<td>*350 00</td>
</tr>
<tr>
<td>(Peabody Bed, $5,000.) (Rev. Alexander G. Mercer Bed, $2,500.) 5,000</td>
<td>5,000 00</td>
<td></td>
</tr>
<tr>
<td>4,320 00 Mortgage, Cheltenham Township, Montgomery County, Pa., 4,320</td>
<td>4,320 00</td>
<td>216 00</td>
</tr>
<tr>
<td>30,000 00 Academy Building, 60 N. Fourth St., 14,600</td>
<td>30,000 00</td>
<td>2,400 00</td>
</tr>
<tr>
<td>14,600 00 Store, 64 N. Fourth St., 14,600</td>
<td>14,600 00</td>
<td>1,200 00</td>
</tr>
<tr>
<td>Amount uninvested, 2,926</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>$172,192 55</strong></td>
<td><strong>$7,144 32</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>$175,119 18</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Less taxes and repairs.
* Interest in default. 

---

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amount unvested</td>
<td>2,926</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$175,119 18</strong></td>
</tr>
</tbody>
</table>
**Summary of Hospital Funds.**

<table>
<thead>
<tr>
<th>Fund Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Hospital Fund</td>
<td>$503,226.44</td>
</tr>
<tr>
<td>Special Hospital Funds</td>
<td>$12,928.82</td>
</tr>
<tr>
<td></td>
<td>$254,535.18</td>
</tr>
<tr>
<td></td>
<td>$12,803.32</td>
</tr>
<tr>
<td>J. RHEA BARTON FUND, 50,000.</td>
<td>$757,759.62</td>
</tr>
<tr>
<td>$28,717 60 Ground Rent, Gray's Ferry Road, (part of $23,632.81)</td>
<td>$28,717.60</td>
</tr>
<tr>
<td>$49,999.99</td>
<td>$2,500.00</td>
</tr>
<tr>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>J. GILLINGHAM FELL FUND FOR ADVANCEMENT OF MEDICAL EDUCATION, $3,500.</td>
<td>$2,450.00</td>
</tr>
<tr>
<td>$1,750.00 Lehigh Valley R. R. stock, 35 shares,</td>
<td>$105.00</td>
</tr>
<tr>
<td></td>
<td>$2,500.00</td>
</tr>
<tr>
<td>DR. GEORGE B. WOOD FUND, AUXILIARY FACULTY OF MEDICINE, $36,276.00.</td>
<td>$35,719.00</td>
</tr>
<tr>
<td>$7,719.00 Ground Rent, Gray's Ferry Road and Twenty-ninth Street,</td>
<td>$4,634.14</td>
</tr>
<tr>
<td>$2,000.00 Ground Rent, Oscar St. and Schuylkill Ave.,</td>
<td>$120.00</td>
</tr>
<tr>
<td>$17,000.00 Building, 131 S. Fifth St.,</td>
<td>$1,400.00</td>
</tr>
<tr>
<td>$9,000.00 Store, 549 N. Second St.,</td>
<td>$1,000.00</td>
</tr>
<tr>
<td></td>
<td>$1,983.14</td>
</tr>
<tr>
<td></td>
<td>$36,276.00</td>
</tr>
<tr>
<td>LEIDY CHAIR OF ANATOMY ENDOWMENT FUND, $3,159.89.</td>
<td>$3,147.25</td>
</tr>
<tr>
<td>$2,300.00 Schuylkill Navigation 6s, 1907,</td>
<td>$115.00</td>
</tr>
<tr>
<td>$500.00 Norfolk &amp; Western 6s, 1932,</td>
<td>$30.00</td>
</tr>
<tr>
<td>$350.00 Lehigh Valley R. R. stock, 7 shares,</td>
<td>$21.00</td>
</tr>
<tr>
<td>$100.00 Perkiomen R. R. 6s, 1887,</td>
<td>$6.00</td>
</tr>
<tr>
<td></td>
<td>$172.00</td>
</tr>
<tr>
<td></td>
<td>$3,159.89</td>
</tr>
</tbody>
</table>

*Less taxes and repairs where noted.
*Less taxes and repairs.
†Not rented.
TOBIAS WAGNER LIBRARY FUND, $11,165 17.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,866 67 Ground Rent, 110 Spruce St.</td>
<td>$1,866 67</td>
<td>$112 00</td>
</tr>
<tr>
<td>400 00 &quot; &quot; Parham Alley,</td>
<td>400 00</td>
<td>24 00</td>
</tr>
<tr>
<td>559 00 &quot; &quot; Denmark Street,</td>
<td>559 00</td>
<td>36 00</td>
</tr>
<tr>
<td>444 50 &quot; &quot; W. side Seventh St., below Alaska,</td>
<td>444 50</td>
<td>24 00</td>
</tr>
<tr>
<td>2,600 00 Schuylkill Navigation Co. 6s, 1907,</td>
<td>2,015 00</td>
<td>130 00</td>
</tr>
<tr>
<td>3,000 00 Phila. &amp; Reading gen. mort. 7s, 1908,</td>
<td>2,400 00</td>
<td>210 00</td>
</tr>
<tr>
<td>Amount uninvested,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$7,685 17</td>
<td>$536 00</td>
</tr>
<tr>
<td></td>
<td>3,480 00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$11,165 17</td>
<td></td>
</tr>
</tbody>
</table>

BOTANICAL GARDEN FUND, $4,194 20.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2,400 00 Ground Rent, 289 North Second Street,</td>
<td>$2,400 00</td>
<td>$144 00</td>
</tr>
<tr>
<td>800 00 &quot; &quot; Gray's Ferry Road and Thirtieth St.,</td>
<td>800 00</td>
<td>48 00</td>
</tr>
<tr>
<td>Amount uninvested,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$3,200 00</td>
<td>$192 00</td>
</tr>
<tr>
<td></td>
<td>994 20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$4,194 20</td>
<td></td>
</tr>
</tbody>
</table>

DEPARTMENT OF BIOLOGY FUND, $21,355.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real Estate, building,</td>
<td>$20,186 78</td>
<td></td>
</tr>
<tr>
<td>Perpetual Insurance, amount to be refunded if policies are cancelled,</td>
<td>285 00</td>
<td></td>
</tr>
<tr>
<td>Amount uninvested,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$20,471 78</td>
<td></td>
</tr>
<tr>
<td></td>
<td>883 22</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$21,355 00</td>
<td></td>
</tr>
</tbody>
</table>

ENDOWMENT FUND, WOMEN'S COLLEGE, $1.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash,</td>
<td>$1 00</td>
<td></td>
</tr>
</tbody>
</table>

CHILDREN'S WARD FUND, $25.

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
<th>Yearly Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash,</td>
<td>$25 00</td>
<td></td>
</tr>
</tbody>
</table>

General Summary.

General Fund—
West Philadelphia Real Estate, Library, Museum, and Perpetual Insurance, etc., $1,099,244 03
Less Ground Rent, 16,000 00
Real and Personal Property, $1,083,244 03

* Interest in default
Hospital Funds—

Real Estate and Perpetual Insurance and
Furniture, ... $263,342 85

Real and Personal Property, ... $239,883 59 $503,226 44

Word for Chronic Diseases Fund—

Real Estate (Gibson Wing), and Perpetual Insur-urance, ... 65,825 00

Personal Property, ... 109,294 18 175,119 18

Various Special Trusts, ... 930,328 70 930,328 70

$1,418,411 88 $1,285,702 47 $2,704,114 35

The Medical, Dental and Law Departments are self-sustaining.
The Departments of Arts and Science were maintained at a loss of $9,517.12, of which amount $2,330.00 is interest in default, leaving net deficit $7,187.12.
The Hospital Department has an annual deficit which is made good by the Board of Managers of the Hospital.
The Wharton School of Finance and Economy was maintained at a loss of $1,505.19, which was made good by a member of the Board of Trustees.

Receipts and Disbursements by the Treasurer for the year ending August 31, 1885.

Balance on hand, August 31, 1884, ... $4212 58
Receipts, ... 278,561 18
Temporary Loans returned, ... 278,000 00

Payments, ... $256,024 90
Money Lomened Temporarily, ... 278,000 00

Balance on hand, August 31, 1885, ... $26,748 86

Insurances.

ON MAIN BUILDING AND WINGS.

On Main Building, $80,000 00
" East Wing, 60,000 00
" West Wing, 60,000 00
------------- $200,000 00

HOSPITAL BUILDING.

On Main Building, $75,000 00
" Corridor and West Wing, 75,000 00
" Gibson Wing and Corridor, 30,000 00
------------- $180,000 00

MEDICAL HALL.

On East Side, $86,666 67
" West Side, 43,333 33
------------- $130,000 00

Laboratory and Dental Building, 40,000 00
Stained Glass Windows, 4,000 00
Museum, Library, Furniture, Apparatus, Laundry, etc., 90,000 00
Veterinary Building, 10,000 00
Biological Building, 10,000 00
Receipts and Expenditures of the Department of

Income, Elliot Cresson Fund, .......................................... $440.50
  "  T. Wagner Fund, ................................................. 318.00
  "  A. Whitney Fund, .............................................. 1,448.91
  "  Reese Wall Flower Estate, .................................... 3,504.02
  "  New Endowment Fund, ........................................... 855.00
  "  "  "  No. 2, ...................................................... 128.50
  "  John Welsh Fund, ............................................... 2,119.25
  "  Thomas H. Scott Fund, ......................................... 3,000.00
  "  Scholarship Fund, .............................................. 810.00
  "  J. H. Towne Estate, ............................................ 3,449.67
  "  Bloomfield Moore Fund, ....................................... 600.00
  "  General Fund, .................................................. 16,205.40
  "  Keble Fund, ................................................................
  "  Adam Seybert Fund, .............................................. 612.21
Adjustment Estate of Dr. G. B. Wood, ................................. 4,000.00
Graduation Fees, .......................................................... 154.88
Interest on temporary loans, .......................................... 560.00
Closet Rent, ..................................................................... 731.05
Tuition Fees, .................................................................... 200.00
Deposits for apparatus, ................................................... 39,984.75
Deficit, ........................................................................... 644.26
Deficit, made good by member of Board of Trustees, ........... 9,517.12
  .............................................................................. 88,995.40

Receipts and Expenditures of the Wharton

Income Wharton School Fund, ........................................... $7,300.00
Tuition Fees, .................................................................... 2,400.00
Graduation Fees, ............................................................. 40.00
Amount transferred from Contingent Fund, ....................... 1,595.19
  .............................................................................. 11,688.90

Receipts and Expenditures of the Medi-

Balance, September 30, 1884 ........................................... $220.32
Income, J. Rhea Barton Fund, .......................................... 1,875.00
Tuition Fees, .................................................................... 50,540.00
Income, J. G. Fell Fund, ................................................ 122.50
Balance, .......................................................................... 652.73
  .............................................................................. 53,410.75

Receipts and Expenditures of the

Income, Dr. Geo. B. Wood Fund for Auxiliary Faculty of Medicine, $2,054.07
Estate of Dr. Geo. B. Wood, ............................................. 3,210.86
  .............................................................................. 5,270.93
Balance, .......................................................................... 447.36
Arts and Sciences for the year ending August 31, 1885.

EXPENDITURES.

Interest on University Bonds, ........................................... $8,645 87
Current Expenses, Department Science and Arts, .................... 19,290 07
Salaries, ............................................................................ 51,434 12
Expenses, salary Treasurer's bookkeeper, stationery, etc., ........ 990 12
Current Expenses, University, ............................................ 8,411 34
Income Department Science and Arts, loss on $700 Schuylkill Navigation 6s, sold for Wharton School Contingent Fund and decreased interest on Schuylkill Navigation Bonds in Wharton School Fund, ........... 512 00

Cal Department to August 31, 1885.

Salaries, ............................................................................ $4,823 57
Balance, ............................................................................. $647 36

Auxiliary Faculty of Medicine.

Salaries, ............................................................................ $4,823 57
Balance, ............................................................................. $647 36

Total Deficit, ...................................................................... $9,517 12

Total Expenditures, .......................................................... $88,995 40
## Receipts and Expenditures of the Dental Department

### Receipts

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$15,095.40</td>
</tr>
<tr>
<td>Balance</td>
<td>$804.88</td>
</tr>
</tbody>
</table>

### Expenditures

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance</td>
<td>$804.88</td>
</tr>
</tbody>
</table>

## Receipts and Expenditures of the Hospital Department

### Receipts

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance on hand, January 1, 1884</td>
<td>$9.73</td>
</tr>
<tr>
<td>Dispensary</td>
<td>$809.00</td>
</tr>
<tr>
<td>Patients' board</td>
<td>$4,315.71</td>
</tr>
<tr>
<td>Income, Hospital Fund</td>
<td>$7,503.03</td>
</tr>
<tr>
<td>- Alumni Ward Fund</td>
<td>$300.00</td>
</tr>
<tr>
<td>- Dr. G. B. Wood Fund, for Hahn Ward</td>
<td>$7,546.56</td>
</tr>
<tr>
<td>- Mrs. Norris Fund</td>
<td>$600.00</td>
</tr>
<tr>
<td>- Bement Fund</td>
<td>$300.00</td>
</tr>
<tr>
<td>Donations for deficiency and repairs</td>
<td>$4,681.73</td>
</tr>
<tr>
<td>Income, Ward for Chronic Diseases Fund</td>
<td>$4,042.02</td>
</tr>
<tr>
<td>Freight on coal refunded</td>
<td>$247.95</td>
</tr>
<tr>
<td>Borrowed of Trustees of University</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>City of Philadelphia, ambulance service</td>
<td>$375.00</td>
</tr>
<tr>
<td>Balance</td>
<td>$35,830.73</td>
</tr>
<tr>
<td>Less amount due Trustees of University</td>
<td>$10,880.73</td>
</tr>
<tr>
<td>Balance</td>
<td>$5,880.73</td>
</tr>
</tbody>
</table>

### Expenditures

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donations and rent of apparatus</td>
<td>$882.36</td>
</tr>
<tr>
<td>Balance</td>
<td>$882.36</td>
</tr>
</tbody>
</table>

## Receipts and Expenditures of the Veterinary Department

### Receipts

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$2,292.75</td>
</tr>
<tr>
<td>Income, Veterinary Fund</td>
<td>$25.00</td>
</tr>
<tr>
<td>Balance</td>
<td>$2,317.75</td>
</tr>
</tbody>
</table>

### Expenditures

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$340.00</td>
</tr>
<tr>
<td>Balance</td>
<td>$340.00</td>
</tr>
</tbody>
</table>

## Receipts and Expenditures of the

### Receipts

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$122.48</td>
</tr>
</tbody>
</table>

### Expenditures

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition Fees</td>
<td>$122.48</td>
</tr>
</tbody>
</table>
## Expenditures

### Current Expenses, May 31, 1885.
- Salaries: $8,600.00
- Payment on account of Laboratory and Dental Building: $716.34
- Balance: $804.88

\[
\text{Total} = 8,600.00 + 716.34 + 804.88 = 9,121.22
\]

### Current Expenses, from January 1, 1883, to August 31, 1885.
- $24,950.00
- Balance: $10,880.73

\[
\text{Total} = 24,950.00 + 10,880.73 = 35,830.73
\]
### Medical Department—

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income Medical Department,</td>
<td>$4,979.48</td>
</tr>
<tr>
<td>Current Expenses of Medical Department,</td>
<td>$10,922.55</td>
</tr>
<tr>
<td>Salaries of Medical Department,</td>
<td>$37,288.20</td>
</tr>
<tr>
<td>Less Income J. Rhea Barton Fund,</td>
<td>$1,875.00</td>
</tr>
<tr>
<td>&quot;  J. G. Fell Fund,</td>
<td>$122.50</td>
</tr>
<tr>
<td>Tuition Fees, Medical Department,</td>
<td>$50,540.00</td>
</tr>
</tbody>
</table>

Amount carried forward, $652.73
Amounts Due by Trustees of University.

Income Botanical Garden Fund,
- Dr. G. B. Wood Fund, Auxiliary Faculty of Medicine,

Hospital Department—
Income Alumni Ward Fund,
- Dr. G. B. Wood Fund, Hahn Ward,
- Mrs. G. W. Norris Fund,
- Bement Fund,
- Hospital Department,
- " Fund,
- " Ward for Chronic Diseases Fund,
- " " Bed,
Deficiency and Repair Fund,
Special

Less Current Expenses, Hospital Department,
Loan Account

Dental Department—
Income Dental Department,
Less Current Expenses Dental Department

Veterinary Department—
Income Veterinary Department,
Borrowed Money,
Less Veterinary Department,
J. G. Fell Fund for Apparatus,
Orthopaedic Department,
Income Biological Department,
Deposits for Apparatus,
Income T. Wagner Library Fund,
Physical Education Account,

Principal of Funds uninvested.
General,
Elliot Cresson,
J. H. Towne, Collection of American Fossils,
Dr. G. B. Wood, Hahn Ward,
Reese Wall Flower Estate,
Solomon W. Roberts,
Henry Reed Prize,
Latin Prize,
Oratory Prize,
English Composition Prize,
J. Warner Yardley Prize,

Amount carried forward,

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income Botanical Garden Fund</td>
<td>$484.82</td>
</tr>
<tr>
<td>Hospital Department—</td>
<td>$447.36</td>
</tr>
<tr>
<td>Income Alumni Ward Fund</td>
<td>$300.00</td>
</tr>
<tr>
<td>Hospital Department—</td>
<td></td>
</tr>
<tr>
<td>Dr. G. B. Wood Fund, Hahn Ward</td>
<td>10,509.44</td>
</tr>
<tr>
<td>Mrs. G. W. Norris Fund</td>
<td>7,540.56</td>
</tr>
<tr>
<td>Bement Fund</td>
<td>300.00</td>
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**Total:** $42,717.56
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<td>A. Whitney</td>
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Balance, 30,082.43

$42,717.56

$9,517.12
Donations received during the year ending August 31, 1885.

Whitney & Kemmerer, Hospital Department, ........................................... $100 00
Julianna Wood, ....................................................................................... 200 00
A. J. Drexel, .............................................................................................. 250 00
Dr. A. S. Roberts, ..................................................................................... 40 00
Dr. Willard, ............................................................................................... 60 01
Wood, Bacon & Co., .................................................................................. 250 00
J. H. Hutchinson, ........................................................................................ 250 00
Isaac Welsh, ................................................................................................ 100 00
Estate of Henry Seybert, .......................................................................... 2,000 00
Dr. G. B. Wood, ....................................................................................... 231 73
Dr. W. F. Norris, ...................................................................................... 250 00
Chas. Norris, ............................................................................................. 100 00
Henry Norris, ............................................................................................ 250 00
Mrs. J. Lowber Welsh, .............................................................................. 200 00
Geo. T. Lewis, ........................................................................................... 200 00
Harrison, Brothers & Co., ....................................................................... 250 00
John Sellers, ................................................................................................ 100 00
W. C. Allison, ........................................................................................... 500 00
Eben C. Jayne, Department of Biology, .................................................... 1,000 00
Dr. Horace Jayne, .................................................................................... 10,000 00
C. H. Rogers, ............................................................................................ 250 00
Henry C. Lea, ............................................................................................ 2,500 00
James Whitall, ........................................................................................... 100 00
Dr. Wm. Pepper, ...................................................................................... 2,500 00
Henry Lewis, ............................................................................................. 250 00
Mrs. Thomas Hood, .................................................................................. 50 00
Stuart Wood, .............................................................................................. 600 00
J. C. Strawbridge, ..................................................................................... 500 00
Estate of Dr. G. B. Wood, Auxiliary Faculty Medicine Fund, ............. 9,776 00
  Botanical Garden, ................................................................................... 977 00
  Hahn Ward, ............................................................................................ 14,564 00
  Income ..................................................................................................... 4,361 76
  Auxiliary Faculty Medicine, ................................................................. 2,591 86
  for Income General Fund, .................................................................... 2,883 13
Estate of James H. Peabody, Ward for Chronic Diseases, ................. 5,000 00
Chas. Platt, New Endowment Fund, No. 2, ......................................... 1,000 00
Anna Pell, for Rev. Alex. G. Mercer Bed, Ward for Chronic Diseases Fund, 2,500 00
Anna M. Powers, Department Applied Organic Chemistry Fund, ....... 5,000 00
Matilda Raht, for J. Herman Raht, Memorial Fund, ......................... 250 00
Wm. Sellers & Co., New Endowment Fund, No. 2, ........................... 2,500 00
Dr. A. S. Roberts, Orthopaedic Department, ....................................... 422 00
Estate of Eli K. Price, for salary of Professor of Botany, ...................... 500 00
E. W. Clark, Orthopaedic Department, ................................................ 25 00
Prof. Tyndale, Hector Tyndale Scholarship Fund, .............................. 10,800 00

$86,333 69

PHILADELPHIA, August 31, 1885.

WHARTON BARKER, Treasurer.