CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD COLLEGE.

1864-65.
A CATALOGUE

OF THE

Officers and Students

OF

HAVERFORD COLLEGE,

FOR THE

ACADEMICAL YEAR

1864–65.

PHILADELPHIA:
C OLLINS, PRINTER, 705 JAYNE STREET.
1864.
Corporation.

Secretary,

PHILIP C. GARRETT.

Treasurer,

JOHN M. WHITALL.

MANAGERS:

CHARLES YARNALL,                      DAVID SCULL,
SAMUEL HILLES,                           WILLIAM S. HILLES,
GEORGE HOWLAND, A.M.                    HENRY HARTSHORNE, M.D.
JEREMIAH HACKER,                         JAMES WHITALL,
MARMADUKE C. COPE,                       HUGH D. VAIL, A.M.
JOHN M. WHITALL,                         HAYDOCK GARRIGUES,
ANTHONY M. KIMBER,                       JAMES CAREY THOMAS, M.D.
THEOPH. E. BEESLEY, M.D.                 BENJAMIN V. MARSH,
WISTAR MORRIS,                           PHILIP C. GARRETT,
T. WISTAR BROWN,                         WILLIAM C. LONGSTRETH,
JOSEPH W. TAYLOR, M.D.                   THOMAS P. COPE,
HARRISON ALDERSON,                       SAMUEL ALLINSON,
JAMES E. RHOADS, M.D.

Secretary of the Board,

CHARLES YARNALL.

6359
HAVERTFORD COLLEGE.

Committee on Instruction.

CHARLES YARNALL, HUGH D. VAIL, A. M.,
JEREMIAH HACKER, HENRY HARTSHORNE, M. D.,
JOHN M. WHITALL, BENJAMIN V. MARSH,
HARRISON ALDERSON, JOSEPH W. TAYLOR, M. D.,
WILLIAM S. HILLES, ANTHONY M. KIMBER,
JAMES WHITALL, THOMAS P. COPE.

Committee on Finance and Economy.

ANTHONY M. KIMBER, JAMES WHITALL,
T. WISTAR BROWN, BENJAMIN V. MARSH.

Committee on Farm.

HUGH D. VAIL, A. M., HAYDOCK GARRIGUES,
JOSEPH W. TAYLOR, M. D., WILLIAM C. LONGSTRETH.
WISTAR MORRIS,

Committee on Houses and Grounds.

JOSEPH W. TAYLOR, M. D., THOMAS P. COPE,
WISTAR MORRIS, JEREMIAH HACKER,
T. WISTAR BROWN.

Committee on Library and Apparatus.

CHARLES YARNALL, HENRY HARTSHORNE, M. D.,
WILLIAM S. HILLES, BENJAMIN V. MARSH,
HUGH D. VAIL, A. M., PHILIP C. GARRETT,
JAMES E. RHOADS, M. D.

Committee on Admissions.

CHARLES YARNALL, JAMES CAREY THOMAS, M. D.,
GEORGE HOWLAND, A. M., THOMAS P. COPE,
JAMES WHITALL.

Committee on Investments.

DAVID SCULL, BENJAMIN V. MARSH.
Faculty.

Samuel J. Gummere, President.

Paul Swift, M. D., Professor of Moral, Political, and Natural Science.

Thomas Chase, A. M., Professor of Classics and Belles-Lettres.

Samuel J. Gummere, Professor of Mathematics, Physics, and Astronomy.

Edward D. Cope, A. M., Professor of Comparative Zoology and Botany.

Clement L. Smith, A. M., Assistant Professor of Classics and Mathematics, and Librarian.

William Wetherald, Superintendent.

Instructor in Drawing, John B. Wilson.
## Undergraduates.

### Senior Class.

<table>
<thead>
<tr>
<th>Names</th>
<th>Residence</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bringhurst, John Richardson</td>
<td>Wilmington,</td>
<td>Del.</td>
</tr>
<tr>
<td>Clapp, Samuel Hicks</td>
<td>Philadelphia,</td>
<td>Pa.</td>
</tr>
<tr>
<td>Downing, Joseph Miller</td>
<td>West Whiteland,</td>
<td>Pa.</td>
</tr>
<tr>
<td>Haviland, Arthur</td>
<td>Brooklyn,</td>
<td>N. Y.</td>
</tr>
<tr>
<td>Nichols, David Holder</td>
<td>East Vassalborough,</td>
<td>Me.</td>
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</table>

*1*
<table>
<thead>
<tr>
<th>Names</th>
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<tr>
<td>Smith, Jr., George</td>
<td>Upper Darby, Pa.</td>
</tr>
<tr>
<td>Taber, Robert Barney</td>
<td>New Bedford, Mass.</td>
</tr>
<tr>
<td>Thomas, Allen Clapp</td>
<td>Baltimore, Md.</td>
</tr>
<tr>
<td>Vail, Benjamin Augustus</td>
<td>Rahway, N. J.</td>
</tr>
<tr>
<td>Wistar, Caleb Cresson</td>
<td>Philadelphia, Pa.</td>
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## JUNIOR CLASS.

<table>
<thead>
<tr>
<th>Names</th>
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<tbody>
<tr>
<td>Cloud, Joseph Cooper</td>
<td>Woodbury, N. J.</td>
</tr>
<tr>
<td>Elliott, Aaron Marshall</td>
<td>Westminster, N. C.</td>
</tr>
<tr>
<td>Redman, Samuel Bispham</td>
<td>Haddonfield, N. J.</td>
</tr>
<tr>
<td>Valentine, Benjamin Eyre</td>
<td>Salem, Mass.</td>
</tr>
<tr>
<td>NAMES</td>
<td>RESIDENCE</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Ashbridge, John</td>
<td>West Whiteland, Pa.</td>
</tr>
<tr>
<td>Ashbridge, George</td>
<td>West Whiteland, Pa.</td>
</tr>
<tr>
<td>Chase, Robert Howland</td>
<td>Union Springs, N. Y.</td>
</tr>
<tr>
<td>Clark, William Penn</td>
<td>Centre Valley, Ind.</td>
</tr>
<tr>
<td>Coles, Isaac Woolston</td>
<td>Moorestown, N. J.</td>
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<tr>
<td>Collins, Samuel Craft</td>
<td>Trenton, N. J.</td>
</tr>
<tr>
<td>Crenshaw, Nathaniel Bacon</td>
<td>Richmond, Va.</td>
</tr>
<tr>
<td>Darlington, Charles Howard</td>
<td>Davenport, Iowa.</td>
</tr>
<tr>
<td>De Cou, Franklin</td>
<td>Yardville, N. J.</td>
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<td>Dorsey, William Tagart</td>
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<tr>
<td>Eshleman, B. Franklin</td>
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<td>Haines, Zebedee</td>
<td>Medford, N. J.</td>
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<tr>
<td>NAMES</td>
<td>RESIDENCE</td>
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<tr>
<td>---------------------------</td>
<td>--------------------</td>
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<tr>
<td>Heulings, Isaac W</td>
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<tr>
<td>Hopkins, Frank N.</td>
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<td>Jones, Richard Mott</td>
<td>Dirigo,</td>
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<td>Levick, Lewis Jones</td>
<td>Richland,</td>
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<td>Lippincott, Joseph Kay</td>
<td>Woodstown,</td>
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<td>Morris, John Thompson</td>
<td>Philadelphia,</td>
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<tr>
<td>Parrish, Alfred</td>
<td>Philadelphia,</td>
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<tr>
<td>Sharpless, Charles Williams</td>
<td>Philadelphia,</td>
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<tr>
<td>Swift, William L.</td>
<td>Hart's Village,</td>
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<tr>
<td>Tomlinson, Benjamin Albert</td>
<td>Laurel Mills,</td>
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<tr>
<td>Wistar, John</td>
<td>Salem,</td>
</tr>
<tr>
<td>Witmer, A. Exton</td>
<td>Paradise,</td>
</tr>
<tr>
<td>Wood, Walter</td>
<td>Philadelphia,</td>
</tr>
<tr>
<td>Coles, David Budd</td>
<td>Mount Holly,</td>
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## FRESHMAN CLASS

<table>
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<th>Names</th>
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<tbody>
<tr>
<td>Coffin, Elijah</td>
<td>Richmond, Ind.</td>
</tr>
<tr>
<td>Cook, Edward Hanson</td>
<td>North Vassalborough, Me.</td>
</tr>
<tr>
<td>Ewaal, Henry</td>
<td>Palmyra, N. J.</td>
</tr>
<tr>
<td>Hunt, Howard Abbot</td>
<td>Burlington, N. J.</td>
</tr>
<tr>
<td>Pinkham, Gilbert Latey</td>
<td>Salem, Ohio.</td>
</tr>
<tr>
<td>Satterthwaite, Benjamin Cad-</td>
<td>Oxford Valley, Pa.</td>
</tr>
<tr>
<td>wallader</td>
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<tr>
<td>Taylor, William Shipley</td>
<td>Cincinnati, Ohio.</td>
</tr>
<tr>
<td>Thompson, David Allen</td>
<td>Salem, N. J.</td>
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<td>Tomlinson, Ephraim</td>
<td>Laurel Mills, N. J.</td>
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### SUMMARY.

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<tr>
<td>Seniors</td>
<td>13</td>
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<td>Juniors</td>
<td>5</td>
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<tr>
<td>Sophomores</td>
<td>27</td>
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<tr>
<td>Freshmen</td>
<td>12</td>
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<td><strong>Total</strong></td>
<td><strong>57</strong></td>
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Calendar.

Winter Term, 1864-65, began . . . 9 Mo. 14th.
Winter Term, 1864-65, ends . . . 2 Mo. 1st.
Summer Term, 1865, begins . . . 2 Mo. 22d.
Summer Term, 1865, ends . . . 7 Mo. 12th.
Biennial Examinations, 1865, begin . . . 5 Mo. 29th.
Oration before Loganian Society, 1865 . . . 1 Mo. 31st.
Junior Exhibition, 1865 . . . 2 Mo. 1st.
Address before Alumni, 1864 . . . 10 Mo. 15th.
Public Meeting of Loganian Society, 1865 . 7 Mo. 11th.
Commencement, 1865 . . . 7 Mo. 12th.
Examinations for Admission, 1865, 2 Mo. 21st, 9 Mo. 12th.
Winter Term, 1865-66, begins . . . 9 Mo. 13th.
Requisites for Admission.

Candidates for admission to the Freshman Class are examined in the following books (for any of which, however, real equivalents will be accepted):

CLASSICAL DEPARTMENT.

Andrews and Stoddard's, or Harkness's Latin Grammar,
Caesar's Commentaries,
Virgil's Eclogues,
Cicero's Orations against Catiline,
and the first twenty exercises in Arnold's Latin Prose Composition.

Sophocles's, Crosby's, or Hadley's Greek Grammar,
Felton's or Jacob's Greek Reader,
and the first fifteen exercises in Arnold's Greek Prose Composition (to be written with the accents).

MATHEMATICAL DEPARTMENT.

Greenleaf's Arithmetic,
Alsop's First Lessons in Algebra,
and the first two books of Davies's Legendre.

ENGLISH DEPARTMENT.

Brown's English Grammar,
Mitchell's Ancient and Modern Geography,
and Worcester's Elements of History.
The candidates must be well prepared, also, in reading, writing, spelling, and other elementary knowledge. For pronunciation and orthography, Worcester and Smart are held as the standard authorities.

Applications for admission must be made to the Secretary of the Board of Managers, Charles Yarnall, No. 109 North Tenth Street, Philadelphia. Candidates will present themselves at the College, for Examination by the Faculty, the morning preceding the opening of the term.

Students can be admitted to Advanced Standing, when they can pass a satisfactory Examination in all the previous studies of the course.
Course of Study.

FRESHMAN CLASS.

MATHEMATICS.

Geometry . . . . . Euclid.
Algebra . . . . . Alsop.
Plane Trigonometry . . . Gummere.

GREEK AND LATIN.

The Anabasis of Xenophon . . . Crosby.
Herodotus . . . . . Johnson.
Greek Syntax . . . . . Crosby or Hadley.
Greek Prose Composition continued . Arnold.
Virgil . . . . . Schmitz or Frieze.
Cicero . . . . . Folsom or Johnson.
Latin Syntax and Prosody.
Latin Prose Composition continued . Arnold.
Classical Geography and Antiquities . Kiepert and Smith.

ENGLISH.

Compositions.
Universal History . . . . . Weber.
Chemistry . . . . . Stoeckhardt.
Geology commenced . . . . Dana.
Drawing.
SOPHOMORE CLASS.

MATHEMATICS.
Surveying ........................................ Gummere.
Spherical Trigonometry, Conic Sections,
and Spherical Projections .................. Lewis.
Physics ............................................. Loomis.
Astronomy .......................................... Herschel.

GREEK AND LATIN.
The Iliad of Homer ............................. Felton or Owen.
Plato's Apology and Crito .................. Tyler.
Greek Composition. ............................
Livy ................................................ Lincoln.
The Odes of Horace. ............................
Latin Composition. ............................

ENGLISH.
Geology continued ............................. Hitchcock.
Physical Geography .......................... Guyot.
Organic Chemistry ............................ Johnson.
Evidences of Christianity .................. Paley.
Zoology .......................................... By Lectures.
Drawing. ...........................................
JUNIOR CLASS.

MATHEMATICS.

Astronomy, continued . . . . Herschel.
Analytical Geometry . . . . Davies.
Differential and Integral Calculus . . Davies.

GREEK AND LATIN.

The Seven against Thebes of Æschylus.
Demosthenes or Isocrates.
Thucydides . . . . Owen.
Greek Composition.
Horace . . . . Lincoln.
The Germania and Agricola of Tacitus . Tyler.
The Captivi of Plautus.
Latin Exercises and Extemporalia.
Greek Testament . . . . Tischendorf.

ENGLISH.

The History of the English Language.
Rhetoric . . . . Whately.
Logic \{ the Aristotelian system \} Whately.
\{ the Hamiltonian system \} By Lectures.
Political Economy . . . . Wayland.
Themes.
Drawing.
SENIOR CLASS.

MATHEMATICS.

Analytical Mechanics . . . . Snell's Olmsted.
Optics . . . . . . . . Snell's Olmsted.
Practical Astronomy . . Loomis, with practice in the Observatory.

GREEK AND LATIN.

Thucydides . . . . . . Owen.
The Antigone of Sophocles . . Woolsey.
Greek Composition.
The Letters of Pliny the Younger.
Cicero de Officiis
Latin Themes and Extemporaria.
Greek Testament . . . . Tischendorf.
Modern Greek . . . . By Lectures.

ENGLISH.

Ethics . . . . . . Dymond.
Analogy of Natural and Revealed Religion . . Butler.
Gurney's Observations.
History of Modern Civilization . . Guizot.
Lectures on Modern History . . Arnold.
Psychology . . . . Haven.
Forensics.

Instruction is given in Comparative Zoology and Botany, in lectures to all the classes, by Professor Cope.
Lectures.

The Special Courses of Lectures to the whole College, for the winter of 1864-5, are as follows:

Properties of Numbers . . President Gummere.
The English Poets . . Professor Chase.

Examinations.

In determining the rank of the students, equal weight is given to the viva voce and the written examinations.

Near the close of each Summer Term there is a private examination, in writing, of the Sophomore and of the Senior Classes: of the former, upon the studies of the first two years of the course, preparatory to advancement to the Junior Class; and of the latter, upon those of the last two years, for the degree of Bachelor of Arts. The examinations are conducted upon the following plan:

The members of the class under examination are seated in a room by themselves, under the supervision of an officer, and each student is furnished with a set of questions upon some book or subject in the course, which he is required to answer in writing, without consulting any person or book. The time of writing, for the examination in each book, is limited to four hours. The questions are upon topics and passages selected throughout the text-books, and are calculated to test as accurately as possible the student's knowledge of the whole subject.

A student's answers must be sufficiently meritorious to
receive a mark of at least five, on a scale of ten, in the examination upon each book, and a general average of six and two-thirds in each department, before he can be advanced to the Junior Class, or receive the diploma of Bachelor of Arts.

The *viva voce* examinations are made in the daily recitations. Each recitation during the course is marked on a scale in which ten indicates the highest excellence. From the aggregate of marks received for recitations, themes, etc., deductions are made for irregularities and misdemeanors; and the sum of credit marks remaining, reduced to an average on the scale of ten, is combined with the average obtained in the written examinations, to determine a student’s rank.

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**Degree of Master of Arts.**

Graduates of three years’ standing can take the degree of Master of Arts, on submitting to the Committee on Instruction satisfactory evidence of continued good moral character, and presenting a well written thesis on some literary or scientific subject, which shall receive the approbation of the Managers and Faculty. As it is designed to make this degree a real distinction, the thesis is expected to exhibit sufficient research, thought, scholarship, and ability to attest substantial desert on the part of the applicant. The fee for the diploma is Five Dollars.

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**Astronomical Observatory.**

The Haverford Observatory affords the students in the higher classes the means of becoming familiar with the use of astronomical instruments, and of acquiring, from actual observation, a practical acquaintance with Astronomy.
It contains an Equatorial Telescope, mounted in the Fraunhofer style, with an object-glass of $8\frac{1}{4}$ inches aperture, and a focal length of 11 feet, and furnished with an annular micrometer, with six eye-pieces, varying in magnifying power from 60 to 900 times; a Meridian Transit Circle, of the German form, having a Telescope of 4 inches aperture, and 5 feet focus, with a circle at each end of the axis 26 inches in diameter—one reading by four verniers to two seconds of arc, the other used simply as a finder; a Prime Vertical Transit; a Solar Clock; a Sidereal Clock, with the mercurial compensation; and Bond's Magnetic Chronograph, for the instantaneous recording of observations. The Observatory is lighted and the instruments illuminated with gas.

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**Library and Apparatus.**

The Library of the College contains about 3,300 volumes; that of the Loganian Society about 1,500; making the whole number of books in the two Libraries 4,800.

By liberal contributions of friends of the College, a fund of ten thousand dollars has been established, the income of which is devoted to the increase of the Library.

Extensive Apparatus is provided for the illustration of Natural Philosophy and Chemistry.

The large Mineralogical Collection of the late Dr. Troost occupies the cases in the Collection Room. The Geological Cabinet comprises, among other specimens, complete suites illustrating the Geology of New York and South Carolina, prepared for the College by the late Lardner Vanuxem.

In the rear of the Lecture and Apparatus Rooms is a commodious and well-furnished Laboratory, in which the students are familiarized with Chemical Manipulations, under the supervision of the Professor of Chemistry.
Library and Alumni Hall.

A commodious and elegant building of stone has been recently erected on the College lawn, to be used in part as a Hall for the public exercises of the College, and the meetings of the Alumni Association; in part for the accommodation of the two Libraries and a Reading-room. The cost of the building was about ten thousand dollars, of which the sum of five thousand dollars was generously presented by a graduate, on condition that it should be devoted to the erection of a Library, while the amount expended upon the Hall was raised by the Alumni.

Societies.

The Loganian Society was established by the Officers and Students in 1834. The exercises in its weekly meetings are Discussions, Declamations, Original Essays, etc. The Society publishes a manuscript paper or magazine, "The Collegian," monthly. It has in its possession a carefully selected Library of about 1500 volumes, and cabinets of conchology, geology, natural history, medals, and coins. A large and well-furnished Gymnasium, also, is under its direction.

The Athenæum and Everett are literary societies of the students.
Alumni Prize Essays.

Prizes are offered by the Alumni Association for English Essays, on alternate years, as follows:

A Prize of one hundred dollars, called the Alumni Prize, for the best Essay by any member of the Association or undergraduate of the College.

And a prize of fifty dollars, called the Under-Graduates' Prize, for the best Essay by any member of the Senior or Junior Class of the College.

For the academical year 1864-65 the Under-Graduates' Prize is offered.

The Essays must be written upon good letter-paper, of the ordinary quarto size, with a margin of not less than one inch at the top and bottom and on each side, and the leaves securely stitched together. No Essay shall exceed in length twenty-five printed pages of the North American Review.

The subjects of the essays shall be optional with the writers. The Under-Graduates' Prize for 1863 was conferred upon Joseph G. Pinkham, of the Graduating Class of that year.

Situation of the College.

The College has a remarkably pleasant and healthy location, in the township of Haverford, on the Pennsylvania Railroad, nine miles west of Philadelphia. The buildings are situated on a lawn of fifty acres, tastefully laid out, and, in the number and variety of its trees and shrubbery, unsurpassed by any lawn in the State. All the students board at
the College. The supervision of all the arrangements for the comfort of the family is intrusted to the Matron, Elizabeth B. Hopkins.

Commencement, Terms, Tuition, &c.

Commencement is on the second Fourth-day in the Seventh month of each year. The Junior Exhibition is on the last day of the first term. There are two terms; the first Term, beginning nine weeks after Commencement, and continuing twenty weeks—and the second Term of twenty weeks, beginning three weeks from the end of the first Term, and closing on Commencement day. There are accordingly two Vacations—one of nine weeks in the Summer—and one of three weeks in the Winter.

No student is admitted except at the opening of a Term, and never for a period less than one year. A rule of the Corporation directs that "The College shall be open for the admission of the sons of Friends, and of others, who desire their children to be educated in conformity with the principles of our religious Society."

The price of Board and Tuition is $350 per annum, payable as follows:—$100 at the beginning of each Term, and $75 at the middle of it.
## Graduates

### 1836

<table>
<thead>
<tr>
<th>Name</th>
<th>Place</th>
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<tbody>
<tr>
<td>Thomas F. Cook, M. D.</td>
<td>New York</td>
<td>N. Y.</td>
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<tr>
<td>Joseph Walton</td>
<td>Philadelphia</td>
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### 1837

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<th>Name</th>
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<tbody>
<tr>
<td>William C. Longstreth</td>
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<td>Pa</td>
</tr>
<tr>
<td>David C. Murray</td>
<td>New York</td>
<td>N. Y.</td>
</tr>
<tr>
<td>Lindley Murray</td>
<td>New York</td>
<td>N. Y.</td>
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<tr>
<td>Benjamin V. Marsh</td>
<td>Rahway</td>
<td>N. J.</td>
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<tr>
<td>Joseph L. Pennock</td>
<td>Philadelphia</td>
<td>Pa</td>
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<tr>
<td>Robert B. Parsons</td>
<td>Flushing</td>
<td>N. Y.</td>
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<tr>
<td>Charles L. Sharpless</td>
<td>Philadelphia</td>
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<tr>
<td>Lloyd P. Smith</td>
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<td>Pa</td>
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<td>B. Wyatt Wistar</td>
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### 1838

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<tr>
<td>James V. Emlen, M. D.</td>
<td>Philadelphia</td>
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<td>John Elliott</td>
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<td>Pa</td>
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<td>Thomas P. Cope</td>
<td>Philadelphia</td>
<td>Pa</td>
</tr>
<tr>
<td>Henry Hartshorne, A. M., M. D.</td>
<td>Philadelphia</td>
<td>Pa</td>
</tr>
<tr>
<td>Nereus Mendenhall, M. D.</td>
<td>Guilford Co.</td>
<td>N. C.</td>
</tr>
<tr>
<td>Richard Randolph, Jr., M. D.</td>
<td>Philadelphia</td>
<td>Pa</td>
</tr>
<tr>
<td>Charles Taber</td>
<td>New Bedford</td>
<td>Mass</td>
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1840.

John R. Winslow, M. D., Hertford, N. C.

1841.

*Richard H. Lawrence, New York, N. Y.
Elias A. White, North Carolina, N. C.

1842.

Robert Bowne, New York, N. Y.
William S. Hilles, Wilmington, Del.
Edmund Rodman, New Bedford, Mass.
Thomas Rodman, New Bedford, Mass.
Benjamin R. Smith, Haverford, Pa.
Augustus Taber, New Bedford, Mass.
Caleb Winslow, M. D., Hertford, N. C.

1843.

Francis White, North Carolina, N. C.

1844.

Evan T. Ellis, Philadelphia, Pa.
Robert B. Haines, Germantown, Pa.

* Obiit.
HAVERFORD COLLEGE.

1845.

Edmund Crenshaw, Richmond, Va.

1849.

Albert K. Smiley, A. M., Vassalborough, Me.
Alfred H. Smiley, A. M., Vassalborough, Me.

1851.

Franklin E. Paige, A. M., Weare, N. H.
Zaccheus Test, M. D., A. M., Richmond, Ind.
James C. Thomas, M. D., Baltimore, Md.

1852.

Dougan Clark, M. D., New Garden, N. C.
Lewis N. Hopkins, Baltimore, Md.
William L. Kinsman, Salem, Mass.

1853.

William B. Morgan, A. M., Raysville, Ind.

1854.

Frederick Arthur, Jr., Nantucket, Mass.

* Obiit.
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>John R. Hubbard, A. M.</td>
<td>New Garden, N. C.</td>
</tr>
<tr>
<td></td>
<td>Jesse S. Cheyney, A. M.</td>
<td>Thornbury, Pa.</td>
</tr>
<tr>
<td></td>
<td>†Cyrus Mendenhall</td>
<td>Plainfield, Ind.</td>
</tr>
<tr>
<td></td>
<td>Stephen Wood,</td>
<td>Bedford, N. Y.</td>
</tr>
<tr>
<td>1856</td>
<td>Thomas H. Burgess</td>
<td>Harveysburg, Ohio.</td>
</tr>
<tr>
<td></td>
<td>Thomas Clark</td>
<td>Carthage, Ind.</td>
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<tr>
<td></td>
<td>Daniel W. Hunt</td>
<td>Annapolis, Ind.</td>
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<tr>
<td></td>
<td>Samuel T. Satterthwaite</td>
<td>Chesterfield, N. J.</td>
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<tr>
<td></td>
<td>William G. Tyler</td>
<td>Salem, N. J.</td>
</tr>
<tr>
<td>1857</td>
<td>‡Richard W. Chase</td>
<td>Burlington, N. J.</td>
</tr>
<tr>
<td></td>
<td>§Richard C. Paxson</td>
<td>San Francisco, Cal.</td>
</tr>
<tr>
<td></td>
<td>Edward C. Sampson</td>
<td>Manchester, Me.</td>
</tr>
<tr>
<td></td>
<td>George Sampson</td>
<td>Manchester, Me.</td>
</tr>
<tr>
<td></td>
<td>Abram Sharples, M. D.</td>
<td>Ivy Mills, Pa.</td>
</tr>
<tr>
<td></td>
<td>Benjamin H. Smith</td>
<td>Upper Darby, Pa.</td>
</tr>
</tbody>
</table>

* Obiit 1859. † Obiit 1858. ‡ Obiit 1862. § Obiit 1864.
### 1860.

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Lindley M. Clark,</td>
<td>Carthage</td>
<td>Ind.</td>
</tr>
<tr>
<td>William B. Corbit, M. D.</td>
<td>Odessa</td>
<td>Del.</td>
</tr>
<tr>
<td>Cyrus Lindley,</td>
<td>Monrovia</td>
<td>Ind.</td>
</tr>
<tr>
<td>Frederick W. Morris,</td>
<td>Philadelphia</td>
<td>Pa.</td>
</tr>
<tr>
<td>John W. Pinkham,</td>
<td>North Vassalborough</td>
<td>Me.</td>
</tr>
<tr>
<td>Francis Richardson,</td>
<td>Philadelphia</td>
<td>Pa.</td>
</tr>
<tr>
<td>Clement L. Smith, A. M.</td>
<td>Upper Darby</td>
<td>Pa.</td>
</tr>
<tr>
<td>James Tyson, M. D.</td>
<td>Reading</td>
<td>Pa.</td>
</tr>
<tr>
<td>Silas A. Underhill, LL. B.</td>
<td>Brooklyn</td>
<td>N. Y.</td>
</tr>
</tbody>
</table>

### 1861.

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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</thead>
<tbody>
<tr>
<td>Edward Bettle,</td>
<td>Philadelphia</td>
<td>Pa.</td>
</tr>
<tr>
<td>Henry Bettle,</td>
<td>Philadelphia</td>
<td>Pa.</td>
</tr>
<tr>
<td>Charles Bettle,</td>
<td>Philadelphia</td>
<td>Pa.</td>
</tr>
<tr>
<td>William B. Broomall,</td>
<td>Media</td>
<td>Pa.</td>
</tr>
<tr>
<td>Charles H. Jones,</td>
<td>Tamaqua</td>
<td>Pa.</td>
</tr>
<tr>
<td>Thomas W. Lamb,</td>
<td>Newby's Bridge</td>
<td>N. C.</td>
</tr>
<tr>
<td>William N. Potts,</td>
<td>Philadelphia</td>
<td>Pa.</td>
</tr>
<tr>
<td>Jehu H. Stuart, A. M.</td>
<td>Westminster</td>
<td>N. C.</td>
</tr>
<tr>
<td>John C. Thomas</td>
<td>Baltimore</td>
<td>Md.</td>
</tr>
</tbody>
</table>

### 1862.

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>State</th>
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<tbody>
<tr>
<td>Samuel A. Hadley,</td>
<td>Osceola</td>
<td>Iowa.</td>
</tr>
<tr>
<td>George B. Mellor,</td>
<td>Philadelphia</td>
<td>Pa.</td>
</tr>
<tr>
<td>Horace Williams,</td>
<td>Newport</td>
<td>R. I.</td>
</tr>
<tr>
<td>F. Augustus Wood,</td>
<td>New York</td>
<td>N. Y.</td>
</tr>
</tbody>
</table>

* Obiit 1861.
1863.

Thomas J. Battey, Burrillville, R. I.
Joseph G. Pinkham, Manchester, Me.

1864.

Franklin Angell, South Corinth, N. Y.
William Ashbridge, West Whiteland, Pa.
Howard M. Cooper, Camden, N. J.
Albin Garrett, West Chester, Pa.
Morris Longstreth, Germantown, Pa.
E. Pope Sampson, Manchester, Me.

Whole number of Graduates, 132.
Honorary Degrees.

1858.
Hugh D. Vail, A. M., Plainfield, N. J.

1859.

1860.

1864.
Edward D. Cope, A. M., Caln, Pa.
REMARKS

UPON THE

Courses of Study and the Discipline.

MORAL, POLITICAL, AND NATURAL SCIENCE.

In these Departments the method of instruction aims at making the lessons, whatever the subject, as nearly practical as possible. In Moral or Political Science, for example, the principle is illustrated and enforced by applying it to the practices and the wants of every-day life. If the subject be Natural Science, the student is brought into direct communication with the objects studied; so that nature becomes her own interpreter; her great volume supplying abundant types and analogies to illustrate the teachings of the class-book.

The facilities for this kind of instruction, already in possession of the College, are highly creditable, and are annually becoming more ample; the Mineralogical Cabinet, for example, contains 2700 specimens, and the Geological Cabinet about 2500; together, over 5000. In Zoology less has been done; yet a beginning has been made, and many valuable specimens are already in the Cabinet. These collections, together with illustrations by diagrams, models, and maps, and occasional excursions in the neighboring country, enable the Professor to occupy the time allotted to these studies, in a manner at the same time profitable and pleasant to the student, and satisfactory to himself.

The course in Chemistry embraces recitations in Inorganic
Chemistry, occupying the greater part of one term, and accompanied with daily exercise in a Laboratory fitted up for this purpose, and well furnished with material and apparatus. Here students are required to conduct with their own hands, under the direction and supervision of the Professor, experiments illustrative of the day's lesson; thus familiarizing them, by actual practice, with the principles and laws of the science, as well as securing dexterity in manipulation. The study of the Physics of Chemistry, and of Organic Chemistry occupies a considerable portion of another term, and is accompanied with experiments.

COMPARATIVE ZOOLOGY AND BOTANY.

The course of Organic Science embraces a series of lectures by Professor Cope, on these subjects, illustrated by specimens, models, and diagrams. Notes taken on these lectures by the students are criticized, or examination upon the subject of them is held. The series is arranged in the following succession:

The relations of individual beings as species—as inferior or superior organisms, etc.
The situation of individuals on the earth as regards climate, food, topographical position, etc.
Sketch of anatomy in general, followed by a detailed series on human anatomy.
On resemblances and differences, homologies, etc.
The peculiar characteristics of the primary types or branches of the animal kingdom.
The vertebrata in general, and in its primary divisions.
The peculiarities and successive modifications of systems of organs in these primary groups: first, the osseous, then the circulatory, the nervous, the respiratory, etc.
The successive appearance of these groups in time.
The divisions of the primary groups—the families, genera,
etc.; their peculiarities and relations, as living or extinct: their distribution on the earth.

The Articulata, Mollusca, Radiata, and Protozoa, to receive a similar explanation.

A classification of tissues, and a physiological course on their functions, and those of the organs they compose.

Embryology, metamorphoses, and parthenogenesis.

Finally, a short series on Anthropology; the human races, living and extinct.

The characteristics of the primary divisions of plants.

The more detailed anatomy and homologies of the vegetable kingdom.

The botanical series will be similar to the zoological, embracing, like it, the histology, physiology, and palæontology of the subject.

As far as possible, the students will be exercised in examinations of specimens or models, and determinations from them.

HISTORY.

In the study of History, each recitation is connected with the study of the Civil and Physical Geography embraced in the lesson; the pupil being required to come to his recitation prepared to delineate upon the black-board the region of country to which the lesson refers. Thus, by associating in the mind of the learner what are so intimately connected in nature—the history of a people and their geographical position—he is greatly assisted in acquiring, and especially in retaining, a knowledge of both.

PHILOSOPHY AND BELLES-LETTRES.

The recitations in Psychology, Logic, Rhetoric, and the history of the English language, are conducted by Professor
Chase. The effort is made, in presenting the different subjects, to stimulate thought, and train the mind to exactness and vigor. Exercises in the composition of Themes and Forensics are required; and sufficient instruction is given in Declamation to put the student in the right way of self-improvement. The exercises of the Junior exhibition, and of Commencement, are prepared under the supervision of this department.

GREEK AND LATIN CLASSICS.

It is the aim in this department to discipline the mind and cultivate the taste by the study of the great masterpieces of antiquity, and to train and strengthen the reasoning powers by the analysis of words and thoughts required in translation, and particularly by the investigation of the syntax of Greek and Latin, the best practical logic.

In addition to the text-books read in the course, exercises in writing both languages are required, as well as a careful investigation of the various points of history, antiquities, and classical geography involved in the daily lessons.

MATHEMATICS, PHYSICS, AND ASTRONOMY.

The object of this course is, first, as a part of general education, to exercise the student in the process of exact reasoning, and thus secure to his mind a thorough logical discipline; and secondly, as a part of special education, to prepare him to apply the mathematical and mechanical knowledge he acquires to various practical purposes.

Suitable text-books are used, but the great aim is to teach the subject, and not the book. To test the student's knowledge, and also to accustom him to independent and original investigations, questions and problems not found in the text-book are frequently proposed for solution.
A valuable collection of apparatus belongs to the College, and is used in connection with the instruction in Mechanical Philosophy. The students are allowed to perform experiments themselves, under the direction of the Professor. The well-furnished Observatory presents peculiar advantages for the study of Astronomy.

DRAWING.

Instruction in Perspective and Mechanical Drawing is given by a competent teacher.

RELIGIOUS INSTRUCTION.

In addition to the daily readings of the Holy Scriptures, recitations in them are required of each student once a week. By exposition, and presenting collateral information, the instructors endeavor to illustrate and enforce the full meaning of the lessons. In the last two years of the course there are recitations weekly in the Greek Testament, except during a part of one term, in which Gurney's Observations are studied.

DISCIPLINE.

In the discipline of the College, while the officers endeavor to promote habits of order and regularity, they aim to do this in a spirit of kindness and forbearance. Such restraints only are imposed as are deemed necessary to attain this end, or to secure the students from those temptations which are incident to their situation, removed as they are from the protection and preserving influences of home. In maintaining the discipline, private admonition, and appeals to the manliness and good sense of the students, and, above all, to their conscientious feelings and Christian principle, are the means most relied upon.