

THE EDUCATIONAL DIRECTORY.

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IN THE CITY OF NEW YORK.

**COLUMBIA UNIVERSITY**, Pedagogically, consists of a College and a University. The College is Columbia College, founded in 1754. The University consists of the Faculties of *Law, Medicine, Applied Science, Philosophy, Political Science,*

The point of a year of the College studies, with the colleges of the University.

The various schools of the Schools of Medicine, charge of the Faculty strictly university has been established.



University is the senior College pursue their or more of the facul-

ties, except that ture are all under the etter conduct of the , a university council

I. THE

The College has a years' duration, lead of Bachelor of Arts admission to the t least fifteen years examination on p the particulars can be found in the s Information.

PROFESSIONAL  
SCHOOLS.

( Law, Medicine, and conduct respectively chools of Law, Medi- mistry, Engineering, to which all students, not having pursued a graduate studies as are admitted on terms faculties concerned, professional degrees. of Law, established three years' course of law and equity jurisl and equity jurispudence, crim- tional law, interna- and private, and isprudence. The de- of Laws is conferred by completion of the

II. THE UNIVERSITY LIBRARY

PHILATELIC SECTION.

Pedagogically, th Medicine, Applied Science, Philosophy taken together con sity. These facult courses of study respectively, in (a pal law, (b) medicine, (c) applied science, (d) history, economics, and public law, (e) philosophy, philology, and letters, and (f) mathematics and natural science. Courses of study under one or more of these faculties are open to members of the senior class in the College and to all students who have successfully pursued an equivalent course of undergraduate study to the close of the junior year. These courses lead, through the Bachelor's degree, to the University degrees of Master of Arts and Doctor of Philosophy. The degree of Master of Laws is also conferred for dvanced work in law done under the culties of Law and Political Science gether.

ge of Physicians and Surgeons, founded in 1807, offers a four years' course in the principles and practice of medicine and surgery, leading to the degree of Doctor of Medicine.

3. The School of Mines, established in 1864, offers courses of study, each of four years' duration, and each leading to an appropriate professional degree in mining engineering and metallurgy.

4. The Schools of Chemistry, Engineering, and Architecture, set off from the School of Mines in 1896, offer respectively four-year courses of study, each leading to an appropriate professional degree; in analytical and applied chemistry; in civil, sanitary, electrical, and mechanical engineering, and in architecture.

SETH LOW, LL.D., President.

See pages 347 - 356.

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*Packer Collegiate Institute*

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A student may be admitted to the Institute at any time when there is a vacant desk in the grade to which she should be assigned.

New students will be classified September 20, 21, 22, 1899.

The second semester will begin February 7, 1900.

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The latest catalogue of the Institute will be furnished by mail, upon application to the Register.

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---

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---

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REORGANIZED 1890

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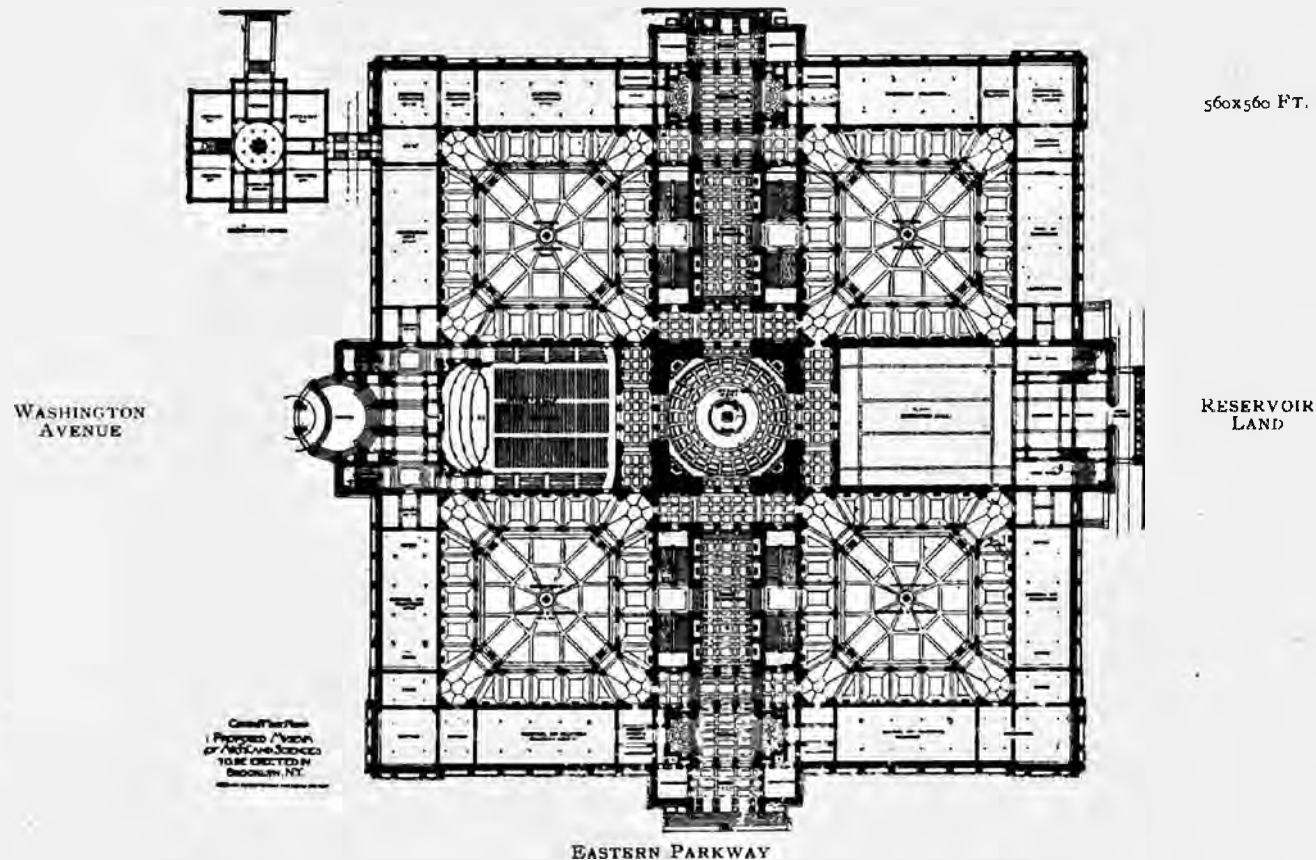
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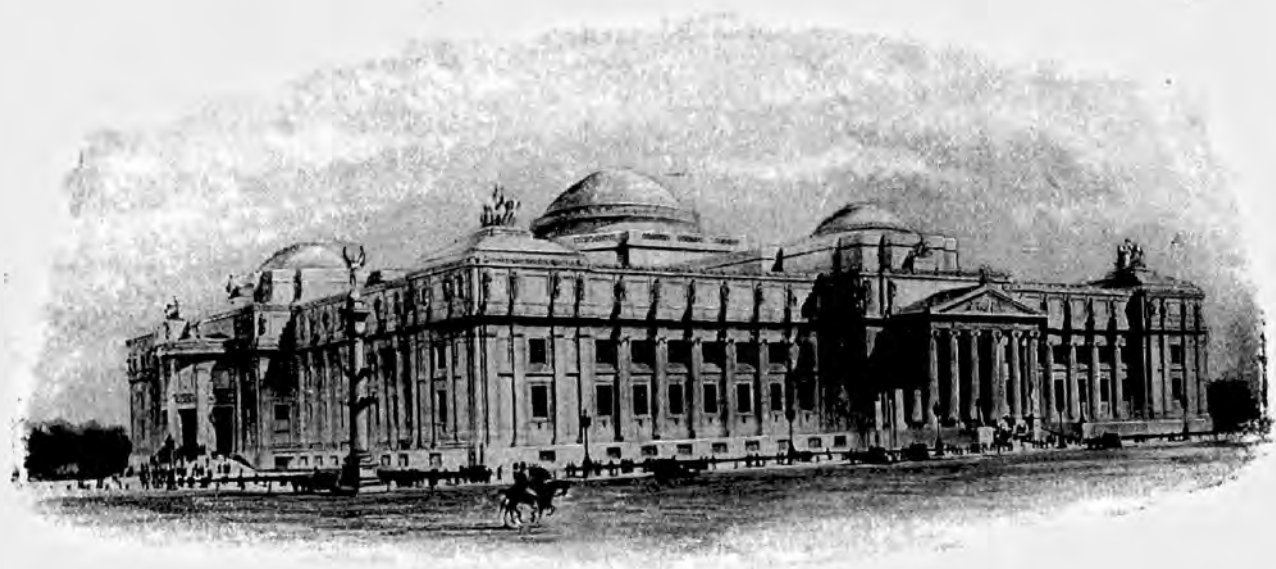
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BROOKLYN :  
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 WILLIAM H. WALLACE.  
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 GUSTAVE T. WALTHER.  
 Miss EMMA L. WALTON.  
 WILLIAM S. WANDEL.  
 CHARLES WANGENFOHR.  
 FREDERICK J. WARBURTON.  
 Supt. EDWARD G. WARD.  
 EDWIN C. WARD.

\*Deceased.

- FREDERIC A. WARD.  
 Miss KATE MORGAN WARD.  
 Miss MARY A. WARD.  
 Miss MARTHA W. WARD.  
 SIDNEY WARD.  
 GEORGE PHELPS WARDELL.  
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 Miss ELLA WARDEN.  
 WILLIAM K. WARDNER.  
 Prof. WILLIAM R. WARE.  
 ALTON G. WARNER, M.D.  
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 EDWIN G. WARNER.  
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 Miss EMMA L. WARNER.  
 Miss HELEN E. WARNER.  
 Mrs. HORACE S. WARNER.  
 OSCAR WARNER.  
 JOHN B. WARNOCK.  
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 Miss SUSAN K. WARREN.  
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 GEORGE F. WATROUS.  
 \*Miss AGNES H. WATSON.  
 Miss ELLA G. WATSON.  
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 Miss MARY E. WATSON.  
 Miss SARAH G. WATSON.  
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 Miss SELINA F. WATT.  
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 BREADING G. WAY.  
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 SILAS D. WEBB.  
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 MISS ANNIE JEAN WHITE.  
 MISS BESSIE R. WHITE.  
 EDWARD WHITE.  
 EDWARD D. WHITE.  
 EDWARD I. WHITE.

MISS FRANCES E. WHITE.  
 FREDERICK M. WHITE.  
 GEORGE T. G. WHITE.  
 GEORGE W. WHITE.  
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 WILLIAM W. WINSHIP.  
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 GEORGE E. WINSLOW.  
 I. STAYNER WINSLOW.  
 \*HON. JOHN WINSLOW.  
 Miss JULIA E. WINSLOW.  
 Mrs. ROSETTA L. WINTER.  
 HENRY C. WINTRINGHAM.  
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 WILLIAM T. WINTRINGHAM.  
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 OTTO WISSNER.  
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 Miss ANNA R. WITTE.  
 Miss CLEMENTINE D. WITTE.  
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 AUGUST WOLLENHAUPT.

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 Mrs. THOMAS WOODLOCK.  
 HENRY S. WOODMAN.  
 R. HUNTINGTON WOODMAN.  
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 JOHN T. WOODRUFF.  
 Hon. TIMOTHY L. WOODRUFF.  
 JOHN A. WOODS.  
 CHARLES B. WOODWARD.  
 Mrs. JOHN B. WOODWARD.  
 Miss MARY B. WOODWARD.  
 Miss MARIA WOODWARD.  
 ROBERT B. WOODWARD.  
 ROBINS B. WOODWARD.  
 Miss VIRGINIA WOODWARD.  
 GEORGE H. WOODWORTH.  
 J. FREDERICK WOODWORTH.  
 Miss GERTRUDE H. WOOLLEY.  
 ULYSSES G. WOOLLEY, M.D.S.  
 Miss NELLIE B. WOOLSEY.  
 Miss GRACIA A. WORTH.  
 PAUL HOWARD WORTH.  
 WALTER E. WORTH.  
 Miss M. A. WRIGGLESWORTH.  
 Mrs. DAVID F. WRIGHT.  
 Mrs. EDWIN S. WRIGHT.  
 Miss FLORENCE M. WRIGHT.  
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 J. GRAHAM WRIGHT.  
 JOHN H. WRIGHT.  
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 JONATHAN WRIGHT, M.D.  
 Miss MARIE WRIGHT.  
 Miss MARY J. WRIGHT.  
 Miss MARY L. WRIGHT.  
 Mrs. CHARLES WUEST.  
 F. W. WUNDERLICH, M.D.  
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 Miss MARIE WUNDRAM.  
 FREDERICK W. WURSTER, Jr.  
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 CHARLES B. WYCKOFF.  
 CHARLES R. WYCKOFF, Jr.  
 JOHN L. WYCKOFF.  
 Mrs. SARAH H. WYCKOFF.  
 WILLIAM F. WYCKOFF.  
 Miss A. C. WYLIE.  
 Miss ELLA M. WYMAN.  
 Mrs. JOHN EUGENE WYMAN.  
 ADRIAN M. YARRINGTON.  
 FREDERICK A. YENNI.  
 Miss ABBIE YOUNG.  
 Miss ANNA J. YOUNG.  
 Miss ANNA L. YOUNG.  
 CURTIS CLAY YOUNG.  
 CHARLES T. YOUNG.  
 Miss CORNELIA YOUNG.  
 Miss ELLA YOUNG.  
 Miss ESTELLE YOUNG.  
 Mrs. JOHN ALVIN YOUNG.  
 Miss LOTTIE E. YOUNG.  
 MARTIN YOUNG.  
 RICHARD YOUNG.  
 RICHARD YOUNG.  
 SAMUEL J. YOUNG.  
 Miss SARAH L. YOUNG.  
 Miss SYBIL T. YOUNG.

WALTER H. YOUNG.  
CORNELIUS ZABRISKIE.  
Rev. JEREMIAH L. ZABRISKIE.  
Mrs. SARAH L. ZABRISKIE.  
WILLIAM ZAISS.  
PAUL ZEHE.  
WILLIAM ZIEGLER.

WILLIAM H. ZIEGLER.  
JOSEPH ZILVER.  
Miss ALICE ZIMMERMANN.  
Miss MARIE ZIMMERMANN.  
Miss O. ZIMMERMANN.  
CARL H. ZOEBISCH.

# In Memoriam.

## PERMANENT MEMBERSHIP.

JAMES S. T. STRANAHAN, - - - September 3, 1898

## CORRESPONDING MEMBER.

JOSEPH ALBERT LINTNER, - - - - - May 5, 1898

## LIFE MEMBERS.

CHARLES R. BAKER, - - - - - August 15, 1898

HENRY C. BENNING, - - - - - September 6, 1898

JOHN WINSLOW, - - - - - October 18, 1898

EDWARD H. R. LYMAN, - - - - - January 20, 1899

## ASSOCIATE MEMBERS.

WILLIAM J. OSBORNE, - - - - - August 27, 1897

Mrs. A. J. FOREN, - - - - - January 28, 1898

Miss AGNES H. WATSON, - - - - - March, 1898

Miss EDITH HILL, - - - - - May 13, 1898

EDWARD DEXTER BROWN, - - - - - July 16, 1898

Mrs. H. M. LAFLIN, - - - - - " 18, 1898

W. H. BENNETT, M.D., - - - - - September 1, 1898

R. J. GODWIN, - - - - - " 19, 1898

Mrs. MARGARET ELEANOR CONNELL, - - - - - October 31, 1898

J. S. FLEMING, - - - - - November 21, 1898

ASSOCIATE MEMBERS—Continued.

WILLIAM M. JELLIFFE, - - - -	November 30, 1898
SAMUEL MCELROY, - - - -	December 10, 1898
Miss MATHILDE VOSSELER, - - - -	" 20, 1898
Mrs. W. J. WHITAKER, - - - -	" 1898
JAMES P. ROGERS, - - - -	January, 1899
Mrs. JAMES H. THORP, - - - -	" 10, 1899
CHARLES NOSTRAND, - - - -	" 30, 1899
ROBERT SHAW, - - - -	February 7, 1899
GEORGE W. MEAD, - - - -	" 13, 1899
NATHANIEL H. CLEMENT, - - - -	March 2, 1899
Mrs. HENRY W. SLOCUM, - - - -	" 27, 1899
Mrs. E. E. CHRISTIAN, - - - -	" 28, 1899
J. P. GERAN, M.D., - - - -	" 28, 1899
THOMAS GOODWIN WELLS, - - - -	April 5, 1899
JOHN M. CONKLIN, - - - -	June 30, 1899

A BRIEF HISTORY  
OF  
THE BROOKLYN INSTITUTE OF  
ARTS AND SCIENCES.

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In the summer of 1823 several gentlemen, among whom was Augustus Graham, met at Stevenson's Tavern for the purpose of establishing for the apprentices of Brooklyn a Free Library. They adopted a constitution, and issued to the citizens of Brooklyn a circular, in which they solicited donations of books and money with which to effect their purpose. On November 20, 1824, they were incorporated by the Legislature of the State under the name of The Brooklyn Apprentices' Library Association, and on July 4, 1825, the cornerstone of the first building owned by the Association was laid by General Lafayette, at the junction of Henry and Cranberry streets. The first lecture delivered in the newly completed structure was by Professor James D. Dana. As early as 1835 the Association had outgrown its original quarters, and, the property having been sold to the city, the Institution was removed to a new building in Washington street, then the centre of wealth and culture of the young city of Brooklyn.

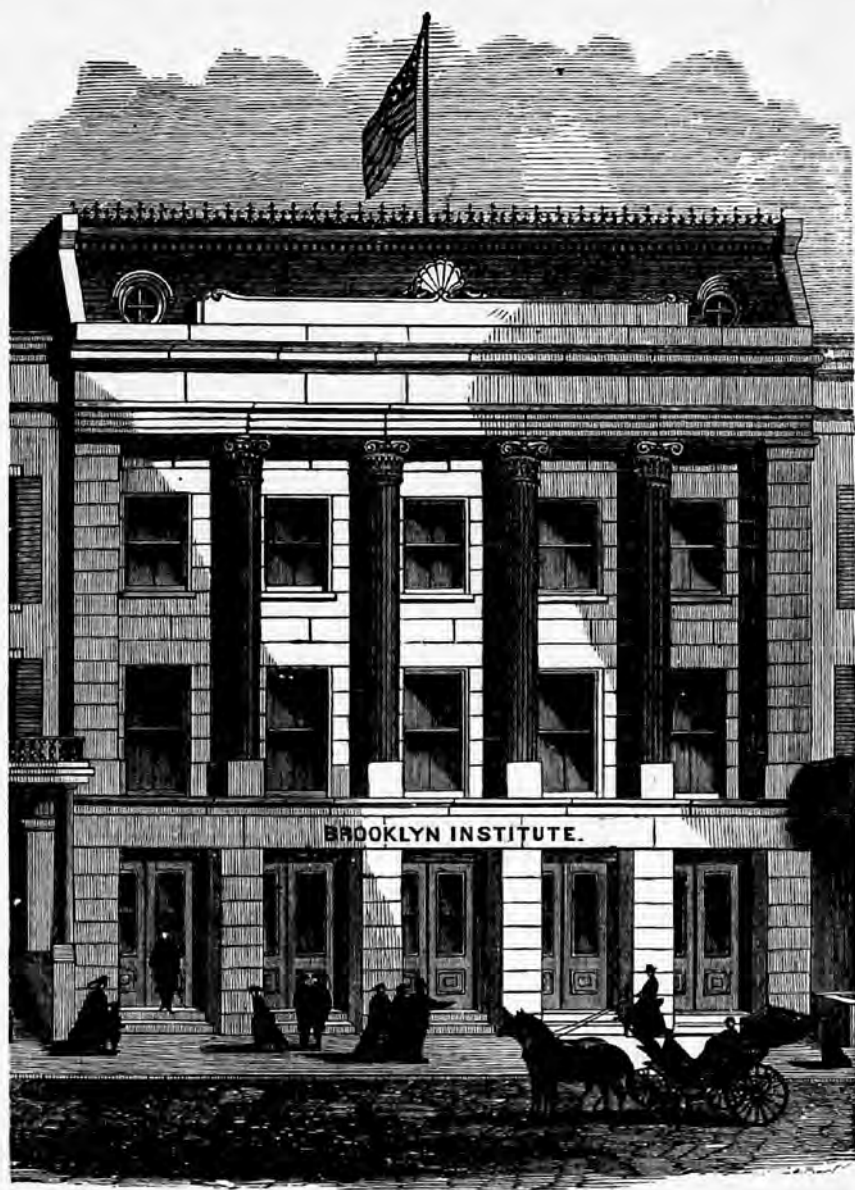
In order to broaden the scope of the Association, an amended charter was granted by the Legislature in 1843, and the name therein changed to that of the Brooklyn Institute. For many years thereafter the Institute was a most important factor in the social, literary, scientific and educational life of Brooklyn. Its library had a good circulation; its public hall was the scene of many historic and social gatherings, and from its platform were heard such eminent scientific men as Agassiz, Dana, Gray, Henry, Morse, Mitch-

ell, Torrey, Guyot and Cooke ; such learned divines as Doctors McCosh, Hitchcock, Storrs and Buddington, and such defenders of the liberties of the people as Phillips, Sumner, Garrison, Emerson, Everett, Curtis, King, Bellows, Chapin, and Beecher.

During this brilliant period of its history (1843-1867) the Institute received from Mr. Graham two very important donations. On July 4, 1848, the building, which had been heavily mortgaged, he presented to the Trustees free from all encumbrance, and through his will, made known to the Board of Directors on November 28, 1851, shortly after his decease, he bequeathed to the Institute the sum of \$27,000 as a permanent endowment fund. The will directs that the interest of \$10,000 of this sum shall be used in the support of lectures on scientific subjects and in the purchase of apparatus and collections illustrating the sciences ; that the interest of \$12,000 shall be used in the support of Sunday evening lectures on "The Power, Wisdom and Goodness of God as Manifested in His Works," and that the balance of \$5,000 shall be used in the support of a School of Design and in forming a Gallery of Fine Arts.

For several years, however, prior to 1867, owing to the erection of the Academy of Music and other public buildings, the Institute building was regarded as behind the times. The income from the rental of portions of the building was dwindling to a low figure, and the financial support of the free library was becoming inadequate. Under these circumstances the Directors remodeled the building in 1867, at an expense of about \$30,000, a part of which was raised by Life Membership Subscriptions of \$50 and \$100, and the balance by a mortgage on the building. For twenty years (1867-87) this indebtedness necessitated the application of a portion of the income from the rent of the building and from the Graham Endowment Fund to the payment of the interest and the principal of the debt. Final payment on the mortgage was made early in 1887.





THE OLD WASHINGTON STREET BUILDING, OCCUPIED 1835-1891.

The cause of the partial inactivity of the Institute during the twenty years (1867-87) is, therefore, apparent. The most that it was able to do was to circulate its library, to keep up its classes in drawing, and to provide for the annual addresses on the 22d of February. Freed from debt in 1887 the Institute was enabled once more to use the whole income from its funds and building for educational purposes, and to become once more an important agent in the work of education in the city.

The property of the Institute in 1887 consisted of the Institute building and land, valued at \$80,000, a library of 12,000 volumes, a collection of paintings valued at \$10,000, and Endowment Funds of \$46,000. These last comprise the \$27,000 bequeathed by Mr. Graham, the William H. Cary Fund of \$10,000 for the support of the library, and an increment of \$9,000 realized through premiums on the sale of bonds.

1887-8.

During the year 1887-8 a new era in the history of the Institute was inaugurated. The Board of Trustees determined to make the property of the Institute the nucleus of a broad and comprehensive institution for the advancement of science and art, and its membership a large and active association, laboring not only for the advancement of knowledge, but also for the education of the people through lectures and collections in art and science. It was observed that, while Boston has the Lowell Institute, a Society of Natural History and an Art Museum; while Philadelphia has the Franklin Institute, an Academy of Sciences and a Gallery of Fine Arts, and New York has the Metropolitan Museum and the American Museum, Brooklyn had nothing corresponding to these institutions. It was felt that Brooklyn should have an Institute of Arts and Sciences worthy of her wealth, her position, her culture and her people; that it was her duty to do more than she was then doing for the education and enjoyment of her people, and that some step should

be taken looking towards the future growth and needs of the city in matters of art and science.

Accordingly, a form of organization was adopted which contemplated the formation of a large association of members, and a continual increase of the Endowment Funds and the Collections of the Institute. Provision was made for a subdivision of the membership into departments, representing various branches of Art and Science, each department forming a society by itself and yet enjoying all the privileges of the general association. A general invitation was extended to citizens specially interested in Science and Art to become members of the Institute. Courses of lectures on Science and Art were provided. The Directors' Room of the Institute was enlarged to accommodate the meetings of some of the departments contemplated, and a large Lecture Room on the third floor of the Institute Building was fitted up at an expense of \$2,600 for the occupancy of those departments that would make use of apparatus and collections at their meetings.

1888-9.

During the first fifteen months after the organization of the Institute a membership of three hundred and fifty persons was recorded. The Brooklyn Microscopical Society joined the Institute in a body with sixty-four members, and became the Department of Microscopy. The American Astronomical Society, whose members resided mostly in New York and Brooklyn, became the Department of Astronomy, with thirty-two members. The Brooklyn Entomological Society united with the Institute, and became the Entomological Department, with forty-one members. The Linden Camera Club of Brooklyn became the Department of Photography, with twenty-six members. Departments of Physics, Chemistry, Botany, Mineralogy, Geology, Zoölogy, and Archæology were successively formed. Each of the above twelve Departments began to hold monthly meetings. The permanent funds and property of the Institute were

increased by \$3,000. Additions were made to the Library, and its circulation was increased from 12,000 to 36,000 volumes per year, and a general citizens' movement to secure a Museum of Arts and Sciences for Brooklyn was inaugurated.

1889-90.

The progress of the Institute during the year 1889-90 was even greater than in the preceding fifteen months. The membership of the twelve Departments organized the previous year was somewhat more than doubled. Eight new and strong Departments, viz., Architecture, Electricity, Geography, Mathematics, Painting, Philology, Political Science, and Psychology, were formed successively. The membership was increased from three hundred and fifty to eleven hundred. To the collections of the Institute were made very large additions. The Library was reorganized and its circulation increased from the rate of 36,000 volumes to 55,000 per year, and 1,500 new books were placed in the Library for the benefit of the Departments and their members. The number of lectures, exhibits and meetings of Departments was increased from about ninety in the previous year to two hundred and thirty. The attendance on the Department meetings was nearly doubled. The number of members taking an active part in the meetings and in the work of the Institute was quadrupled. The quality of the lectures and addresses was an improvement over that of the previous year; and out of the abundance of active and increasing interest in the Arts and Sciences awakened by the old Brooklyn Institute the new BROOKLYN INSTITUTE OF ARTS AND SCIENCES was born, destined to absorb the old Institute, to command the attention, the admiration, the love and the support of every resident of the city, to foster the interests of other educational institutions, and to become a means for the education, the refinement and the uplifting of all.

1890-91.

The growth of the Institute received a temporary check during the year 1890-91. On September 12th a serious fire in the Institute Building rendered it unfit for immediate use. But through the generous hospitality of other institutions in the city it was possible to carry on the work elsewhere. The Young Men's Christian Association, the Union for Christian Work, the Packer Collegiate Institute, the Brooklyn Library, the Polytechnic Institute, the Brooklyn Heights Seminary, the Church of the Saviour, the Adelphi Academy, and the Brooklyn Art Association each contributed the use of rooms for the lectures and the work of the Departments. And, notwithstanding the fact that the work was distributed at various points, the Institute's progress was of a permanent and substantial character. Three hundred and twelve new members were added. The membership of each of the twenty Departments was enlarged. The number of lectures and meetings was increased to three hundred and ten, as against two hundred and thirty in the previous year. The attendance on the lectures was augmented, reaching a total of 46,000. The Geographical Department brought together a collection of geographical appliances, consisting of maps, globes, charts, reliefs, models, atlases, treatises, text-books and other publications, valued at \$6,000. The Geographical Collection was exhibited in Brooklyn for four weeks, and in Boston for three weeks. The Boston Exhibition was visited by about 16,000 people, and the Brooklyn Exhibition by upwards of 27,000 people. Subscriptions towards the Endowment Fund of the proposed Museum were made to the amount of \$51,500, and by act of legislation the city was authorized to expend \$300,000 in the erection of a portion of the proposed Museum of Arts and Sciences on Prospect Heights.

1891-2

During the fourth year of active work after the reorganization of the Institute, six hundred and thirty-two new

members were recorded, of whom about one-third were teachers in our public and private schools; the Architectural Department established a school for junior architects and draughtsmen. The Department of Painting aided in the establishment of the Brooklyn Art School. The Department of Geography exhibited its collection in New York City for four weeks for the benefit of the teachers and citizens of New York and vicinity. The Department of Music was established during the autumn by the members of the musical profession, with a membership of one hundred and seventeen. The Department of Pedagogy was organized in March with two hundred and six members from the teaching profession. The Photographic Department was provided with an excellent suite of rooms fitted up at an expense of about \$1,000. Two Summer Schools of Art were established, one of them at the seashore and the other in the mountains. The Departments of Architecture, Microscopy and Photography gave large and excellent exhibitions that were free to the public. The number of lectures and meetings by the Departments was increased from three hundred and twelve in the previous year to four hundred and five. The total attendance on the lectures, meetings and exhibitions was increased from ninety-nine thousand to one hundred and twenty thousand. Subscriptions to the Endowment Fund were received amounting to \$16,000. The real estate belonging to the old Brooklyn Institute in Washington street was sold to the Trustees of the New York and Brooklyn Bridge, and the net proceeds of the sale, amounting to \$72,000, were invested in city bonds. The old Brooklyn Institute was consolidated with the new Brooklyn Institute of Arts and Sciences, transferring thereto its property and estate, amounting to \$139,286.00, in invested funds, together with collections, library and other property valued at \$42,450. The Mayor and Park Commissioner selected as the site for the proposed Museum Buildings the East Side lands, bounded by the Eastern Parkway,

Washington avenue, the south side of old President street and the Prospect Hill Reservoir.

## 1892-3.

During the fifth year the growth of the educational work of the Institute was greater than that of any preceding season. Nine hundred and forty new members were added to the roll; the number of lectures, addresses, concerts and exhibitions open to all the members was 482, as against 405 the previous year. The number of lectures and class exercises open to members and others by the payment of a moderate fee was 1,397, as against 1,134 the previous year; the number of concerts was increased from 8 to 15. The average daily attendance on all the exercises of the Institute for the eight months of active work was 936, and the total attendance for the year 190,900. The annual income was increased from \$18,934.20 in the previous year to \$31,641.51. Institute Extension Courses of lectures were given in the eastern section of the city. The School of Political Science was established with four classes and ninety-six pupils. The Brooklyn Art School was transferred to new and larger quarters in the Ovington Studio Building, and the number of pupils was increased from ninety-four to one hundred and twenty-eight. The Department of Architecture, acting through its Advisory Board, devised a scheme of competition for the best plan and design for the proposed Museum of Arts and Sciences, which was approved by the Board of Trustees, and adopted by the Mayor and Park Commissioner; and a competition for the best plan and design for a Museum Building was completed with most satisfactory results.

## 1893-4.

During the sixth year of educational work under the new constitution nine hundred and seventy-nine new members were enrolled. The total number of members was increased from 2,622 to 3,457. The total number of lectures, confer-

ences, class exercises, and Department meetings increased from 1,879 to 2,212. The Department of Domestic Science was organized with a membership of forty-two. The annual income was increased from \$31,641.51 in 1892-3 to \$40,169.35. The average daily attendance on the exercises of the Institute was 1,177. The Mayor and Park Commissioner leased to the Institute eleven and nine-tenths acres of land for a period of one hundred years, at one dollar per year, as a site for the Museum Building. The Legislature of the State of New York authorized the expenditure of \$50,000 in grading the Institute Park lands, including the Museum site. The Department of Parks of the City of Brooklyn leased at a nominal rental the Bedford Park Building to the Institute for temporary Museum purposes. The Departments of Geography, Zoölogy, Botany, Geology, Mineralogy and Chemistry arranged their collections in the Bedford Park Building for public exhibition; and the State Legislature increased the rate of interest on the Museum of Art and Science Bonds to not exceeding four per cent. to enable the city to sell the bonds and to erect the first section of the Museum Building.

1894-95.

During the seventh year of work under the new constitution, the growth in the annual income and in the attendance on the meetings of the Institute was in a measure checked by the general financial depression under which the country suffered, and also by the serious interruption of public travel caused by the strikes on the surface railways of the city. The number of members, however, was increased from 3,457 to 3,764. The total number of lectures, conferences, class exercises and Department meetings was 2,621, as against 2,212 in the previous year. The Department of Law was organized with a membership of one hundred and twenty-three. The Department of Entomology was reorganized with an increased membership. The annual receipts increased from \$40,169.35 to \$44,756.13. The Temporary Museum Building in Bedford



Park was opened to the public on Thursday and Saturday afternoons, and was visited by several thousand citizens. A fund of \$1,500.00 was raised to aid Prof. WILLIAM H. GOODYEAR in making a series of surveys and photographs of Mediæval Architecture in Italy. The site of the Brooklyn Museum of Arts and Sciences was surveyed, and the elevation of the base line of the building was fixed at 175 feet above sea level. The working plans and specifications for the northern portions of the Museum were completed, and the Museum Commission advertised for contracts for the erection of the northwest section of the Museum Building.

1895-6.

The year 1895-6 was one of the most eventful in the history of the Institute. The site for the Museum Building was graded during the months of September and October. The contract for the erection of the northwest section of the Museum Building was given by the Mayor and Park Commissioner on September 1st to Messrs. P. J. CARLIN & CO. for \$254,675.00. Ground was broken with appropriate ceremonies by the Hon. FRANK SQUIER, Park Commissioner, for the foundations of the building, on September 14th. The cornerstone of the structure was laid by Mayor CHARLES A. SCHIEREN on December 14th, in the presence of a large gathering of citizens, and the construction was carried to the third floor of the building. The educational work was characterized by an increase in the attendance from 215,150 to 268,580. The number of lectures, class exercises and other educational gatherings was increased from 2,567 to 3,069. The net increase in the membership was from 3,764 to 4,168. The Department of Music gave a series of Philharmonic Concerts in conjunction with the Brooklyn Philharmonic Society by the Boston Symphony Orchestra. The receipts applicable to the payment of running expenses were increased from \$44,756 13 to \$66,199.73. The Endowment Fund received from the estate of the late JOSEPH T. PERKINS the

sum of \$10,000. The Institute became the owner of a majority of the stock of the Brooklyn Art Association. The Herbarium and Botanical Collections of the late Rev. CHARLES H. HALL, D.D., LL.D., were presented to the Department of Botany by Mrs. HALL in accordance with the request of Dr. HALL; and the State Legislature authorized the continuance of work on the Museum Building at an expense not exceeding \$600,000.00.

Accompanying this growth the Institute suffered losses by the death of an unusually large number of valuable members. The Rev. CHARLES H. HALL, D.D., LL.D., for seven years President of the Associate Members, and six years a member of the Board of Trustees, died on September 12, 1895. General JOHN B. WOODWARD, a member of the Board of Trustees for twenty-seven years, Secretary of the Board of Trustees for four years, and President of the Board of Trustees from 1888 to 1895, inclusive, died on March 5, 1896. Mr. JOHN D. JONES, the founder of the Biological Laboratory at Cold Spring Harbor, and a generous contributor to its resources, died September 20, 1895, and Mr. JOSEPH T. PERKINS, a PATRON of the Institute, died on July 12, 1895.

#### 1896-7.

The year 1896-7 witnessed an increase in the membership from 4,168 to 4,704, in the attendance from 268,580 to 302,426, in the number of lectures, conferences, concerts, readings and class exercises from 3,069 to 3,416, and in receipts from \$66,199.73 to \$67,983.85. The State Legislature passed a law providing \$10,000.00 for the care and maintenance of the Museum Building during the year 1897; included in the Charter of the Greater New York were provisions for the continuance of all laws affecting the Institute unimpaired, and for the care and maintenance of the Museum Building and its contents, an annual appropriation by the City of New York a sum of not less than \$20,000.00; and also authorized the establishment of a Botanic Garden and

Arboretum on the Park Lands south of the Museum site as a proper approach to the Museum Building. The first section of the Museum Building was completed on May 14th. A very valuable loan collection of paintings and other works of art, comprising some six hundred entries, was placed in the galleries on the first and third floors during the latter part of May, and the entire Museum was thrown open to the public on Wednesday, June 2d, to remain open daily for the benefit of all.

1897-8.

During the tenth season, after the reorganization of the Institute effected in 1887-8, the Museum Building was equipped with engines, dynamos, electric ventilating fan, electric elevator, electric lights, natural history cases, furniture and fixtures, making the entire cost of the building and equipment \$335,500.00. The Museum Building was dedicated with appropriate exercises on October 2d. The Loan Collection of Paintings and other works of Art that was installed in May was kept on exhibition until November 1st. A second loan collection of paintings was installed in November numbering 421 canvasses, and this collection, together with the paintings belonging to the Institute, has been continued on exhibition in the galleries on the third floor of the Museum. Portions of the Scientific Collections of the Institute in Mineralogy, Geology, Zoölogy, Botany, Entomology, Archæology, Geography and Ethnology were transferred from the Bedford Park Building to the new Museum and installed in the galleries in the basement and second floors. Loan Collections in Mineralogy, Paleontology, Entomology, Archæology and Ethnology were placed on exhibition from time to time in the galleries of the basement and second floors. Most valuable works of art were presented by Mr. A. AUGUSTUS HEALY, Mr. JAMES A. H. BELL, Mr. ABRAHAM ABRAHAM, Mr. JOSEPH JEFFERSON, Mr. E. K. AUSTIN, Mr. FREDERICK J. ADLER, Mr. C. F. BROOKS, Mr. SAMUEL P. AVERY, Mrs. SAMUEL B. DURVEA, Col. ROBERT B. WOODWARD, Mr.

PETER LAUCKHARDT, the REMBRANDT CLUB and the estate of the late JOHN H. PRENTICE. Eighty-five selected casts\* from Greek and Roman Sculptures were presented by Members and friends of the Institute and installed in the Hall of Greek Sculpture on first floor of the Museum. Mr. FRANK S. JONES presented the Institute with \$3,500.00, with which to purchase the GEBHARD GEOLOGICAL COLLECTION, representing the Paleontology of the State of New York. Subscriptions were made amounting to \$3,000.00 by Mr. HENRY H. BENEDICT, JAMES H. BATES, FRANK SHERMAN BENSON, Mrs. ARTHUR W. BENSON, Miss MARY BENSON, Hon. WILLIAM B. DAVENPORT, Hon. CHARLES A. SCHIEREN, Hon. TIMOTHY L. WOODRUFF, Mr. CHARLES B. HEWITT, Mr. HENRY K. DYER, Mr. MARTIN JOOST and Mr. ALVAN R. JOHNSON, with which to purchase the WILLIAM WALLACE TOOKER COLLECTION of Indian Relics of Long Island, and the Collection was purchased and installed in the Museum. Mr. JAMES A. H. BELL presented large and valuable collections of paintings, sculptures and other works of Art; an organ, piano and library of music, and collections in mineralogy and conchology. Very valuable additions were made to the Collections in Ornithology by Mr. A. B. LOUNSBERRY, Mr. ROBERT A. PEAVEY, Mrs. A. M. MATHESON and Mrs. N. L. TERRELL and others; to the Collections in Mineralogy by Mr. ALEXANDER M. WHITE, Mr. GEORGE L. ENGLISH, Mr. JOHN W. FRECKELTON, Mr. JAMES WALKER, Miss J. HUSSON and others; to the Herbarium by JOHN COOPER, M.D., Mr. LUCIUS BELL and Mrs. NATHANIEL L. BRITTON; to the Archæological Collection a series of Egyptian Jars by Mrs. MARY L. BEERS.

The Library received additions numbering 1,048 volumes and many pamphlets. Fourteen shares of stock in the Brooklyn Art Association were presented in exchange for Life Membership Certificates in the Institute. Four courses of lectures were given in the Eastern District of Brooklyn.

\* For a list of the casts presented and a list of the donors, see the Department of Fine Arts in the Year Book of 1897-8.

The Membership was increased from 4,704 to 5,417. The attendance on lectures, classes, concerts, readings and meetings of Departments was increased from 302,426 to 334,670. The registered attendance at the new Museum Building was 126,046. The total attendance for the year reached 460,716. The annual income grew from \$67,983.85 to \$99,058.20. The City of Brooklyn appropriated \$10,000.00 to meet the expense of the care and maintenance of the Museum during the period June 1st to December 31st, 1897. The City of New York set apart \$20,000.00 for the care and maintenance of the Museum during the year 1898, and the Department of Parks of the City of New York graded portions of the Museum grounds lying south of the Museum Building.

## 1898-9.

During the year just brought to a close the number of members has been increased from 5,417 to 5,975; the number of lectures open to all members on the presentation of the weekly membership ticket from 544 to 572; the total number of meetings and class exercises from 3,558 to 3,806; the attendance on lectures, concerts, dramatic readings and class exercises from 334,670 to 360,980. The attendance at the Museum Building was 92,736, and the total attendance for the year 453,716. The annual income of the Institute, applicable to the payment of current expenditures, increased from \$99,058.20 to \$119,965.12. Mr. FRANK S. JONES, Member of the Board of Trustees, presented to the Institute \$10,000.00, to be used in the purchase of the BERTHOLD NEUMOEGEN COLLECTION OF LEPIDOPTERA, numbering some forty thousand specimens. Mr. EDWARD L. GRAEF, Curator of Entomology, presented to the Institute his entire Collection in Lepidoptera, numbering some fifteen thousand specimens. Mr. A. AUGUSTUS HEALY, President of the Board of Trustees, presented a colored Majolica Lunette by GIOVANNI DELLA ROBBIA, illustrating the Resurrection of Christ. Mr. WILLIAM T. EVANS presented a Portrait of WILLIAM

CULLEN BRYANT by the late WYATT EATON. A large number of donations were made to the scientific and art collections of the Institute, descriptions of which appear in this Year Book under the respective Departments to which the gifts naturally belong. To the scientific collections were added, by purchase, thirty compound microscopes and two microtomes for the Department of Microscopy, at an expense of \$1,124.50; apparatus for the Department of Physics at an expense of \$520.00; apparatus for the Department of Archæology costing \$560.00; apparatus for the Departments of Geography and Geology costing \$960.00. On the recommendation of the Council of the Institute the Trustees determined to establish a CHILDREN'S MUSEUM in the Bedford Park Building. Apparatus and collections for the equipment of this Museum were ordered at an expense of \$2,600.00. The SCHOOL OF PEDAGOGY was established with five classes and an enrollment of 522 students. Seven shares of stock in the Brooklyn Art Association were presented in exchange for Life Memberships in the Institute, and additions were made to the Department Libraries. Application was made by the Board of Trustees to the authorities of the City of New York for the issuing of bonds as authorized by law to be issued for the continuation of the work of construction on the Museum Building. This application was approved by the Department of Buildings, Lighting and Supplies, and was laid before the Board of Estimate and Apportionment of the City of New York.

## THE GROWTH OF THE INSTITUTE.

### I.—THE INCREASE IN THE MEMBERSHIP.

	Number of Members.	Annual Increase.
June 1, 1888	82	
“ 1889	352	270
“ 1890	1,118	766
“ 1891	1,324	206
“ 1892	1,782	458
“ 1893	2,622	840
“ 1894	3,457	835
“ 1895	3,764	307
“ 1896	4,168	404
“ 1897	4,704	536
“ 1898	5,417	713
“ 1899	5,975	558

### II.—THE INCREASE IN THE NUMBER OF LECTURES, MEETINGS AND CLASS EXERCISES.

	Meetings Open to All Members.	Special Meetings and Class Exercises.	Total Number of Meetings.
1887-88	18	60	78
1888-89	90	104	194
1889-90	230	215	445
1890-91	312	622	934
1891-92	405	1,134	1,539
1892-93	482	1,397	1,879
1893-94	489	1,723	2,212
1894-95	496	2,125	2,621
1895-96	502	2,567	3,069
1896-97	541	2,875	3,416
1897-98	544	3,014	3,558
1898-99	572	3,234	3,806

## III.—INCREASE IN ATTENDANCE.

	Average Daily Attendance.	Average Attendance per Exercise.	Total Attendance for the Year.
1887-88	86	86	6,900
1888-89	112	94	18,300
1889-90	230	104	46,950
1890-91	486	106	99,200
1891-92	541	98	120,500
1892-93	936	102	190,900
1893-94	1,177	96	212,415
1894-95	1,224	82	215,150
1895-96	1,492	87	268,580
1896-97	1,512	88	302,426
1897-98	1,673	94	334,670
1898-99	1,719	92	360,980

The attendance at the Museum Building was 92,736. The total attendance, including that at the Museum Building, for the year ending June 1, 1899, was **453,716**.

## IV.—INCREASE IN RESOURCES.

	Annual Income.	Permanent Funds.
1887-88	\$4,456 70	\$37,000 00
1888-89	7,364 16	46,000 00
1889 90	11,412 25	66,000 00
1890-91	13,218 11	139,000 00
1891-92	18,934 20	206,000 00
1892-93	31,641 51	211,000 00
1893-94	40,169 35	215,000 00
1894-95	44,756 13	218,383 00
1895-96	66,199 73	228,053 00
1896-97	67,983 85	228,453 00
1897-98	99,058 20	232,153 00
1898-99	119,965 12	232,153 00



# CONSTITUTION.

## ARTICLE I.—MEMBERSHIP.

SECTION I. The membership of the BROOKLYN INSTITUTE OF ARTS AND SCIENCES shall comprise HONORARY MEMBERS, FOUNDERS, BENEFACTORS, FELLOWS, PATRONS, PERMANENT MEMBERS, LIFE MEMBERS, CORRESPONDING MEMBERS AND ASSOCIATE MEMBERS.

SEC. II. HONORARY MEMBERS shall comprise those persons who have rendered distinguished and valuable service to man by their creations, contributions, discoveries or inventions in the Arts and Sciences. The number of Honorary Members shall be limited to fifty.

SEC. III. THE FOUNDERS OF THE INSTITUTE shall comprise those persons who subscribe to the funds of the Institute a sum not less than five hundred thousand dollars, or who present to the Institute sculptures, paintings, books, models, collections in science, apparatus or other property which shall be estimated by the Board of Trustees to be worth to the Institute not less than five hundred thousand dollars. So far as practicable the several Museums of the Corporation shall be dedicated to the philanthropy of the FOUNDERS, and shall bear their names.

SEC. IV. THE BENEFACTORS OF THE INSTITUTE shall comprise those persons who subscribe to the funds of the Institute a sum not less than one hundred thousand dollars and not exceeding five hundred thousand dollars, or who present to the Institute property which shall be estimated by the Board of Trustees to be worth to the Institute between one hundred thousand and five hundred thousand dollars. As far as practicable the several Galleries of Art and Science, the Libraries, Observatories, or other well-defined portions of the property of the corporation shall be dedicated to the philanthropy of the BENEFACTORS, and shall bear their names.

SEC. V. THE FELLOWS OF THE INSTITUTE shall comprise those Associate Members of the Institute who have rendered distinguished and valuable services to man, either by their productions, contributions, discoveries or inventions in the Arts and Sciences, or by their long and eminent service as teachers of Art or Science.

SEC. VI. THE PATRONS OF THE INSTITUTE shall comprise those persons who subscribe to the funds of the Institute a sum not less than ten thousand and not exceeding one hundred thousand dollars, or who present to the Institute property which shall be estimated by the Board of Trustees to be worth to the Institute not less than ten thousand nor more than one hundred thousand dollars. As far as practicable the property given by the PATRONS shall be so arranged as to testify to their philanthropy.

SEC. VII. THE PERMANENT MEMBERS OF THE INSTITUTE shall comprise those persons who contribute to the Institute funds a sum not less than one thousand nor more than ten thousand dollars, or who present to the Institute in any one year property which shall be estimated by the Board of Trustees to be worth to the Institute not less than one thousand nor more than ten thousand dollars. Permanent Members shall be entitled to transfer their memberships respectively by will or by other legal process.

SEC. VIII. LIFE MEMBERS OF THE INSTITUTE shall comprise those persons who contribute to the funds of the Institute a sum not less than one hundred nor more than one thousand dollars, or who present to the Institute at any one time property which shall be estimated by the Board of Trustees to be worth to the Institute not less than one hundred nor more than one thousand dollars.

SEC. IX. THE CORRESPONDING MEMBERS OF THE INSTITUTE shall comprise those persons whose knowledge in the arts and sciences qualifies them to contribute special and valuable information to the proceedings of the Institute or of its several departments, and who do not reside within a radius of twenty miles of the City of Brooklyn.

SEC. X. THE ASSOCIATE MEMBERS OF THE INSTITUTE shall comprise persons who are specially interested in one or more of the Arts or Sciences. The Founders, Benefactors, Patrons, Permanent Members and Life Members of the Institute shall be regarded as Associate Members, and shall not be subject to the payment of any fees or dues. All other Associate Members shall contribute to the funds of the Institute an Initiation Fee of five dollars and Annual Dues of five dollars, payable in advance. An Associate Member shall be entitled, without additional expense, to become a member of as many departments of the Institute as he may elect, to attend all the lectures and meetings of the Institute and of its several departments, and to enjoy all the privileges for education afforded by the Museums, Libraries, Lectures, Laboratories and other appointments of the Institute, with the exception of the instruction given in the several Schools conducted by the Departments—the Concerts, Dramatic Readings, Special Meetings authorized by the Council, and the Institute Extension Courses of Lectures—for which a special fee for admission may be charged.

SEC. XI. The Founders, Benefactors, Patrons, Permanent Members and Life Members of the Institute shall also be known as the CORPORATE MEMBERS OF THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES. Each Corporate Member shall be entitled to vote in the election of Trustees of the Institute, and shall be eligible to election as a member of the Board of Trustees. The Corporate powers of the Institute shall be vested in the Corporate Members. Twenty-five Corporate Members shall constitute a quorum for the transaction of business.

SEC. XII. Honorary Members, Fellows, Corresponding Members and Associate Members shall be nominated by the Council of the Institute and elected by the Board of Trustees. A two-thirds vote shall be necessary for the nomination and election of persons to the classes of membership named in this section.

SEC. XIII. The Board of Trustees shall have power to admit any institution and its members, on such terms as they shall deem just and proper.

ARTICLE II.—BOARD OF TRUSTEES.

SECTION I. The Board of Trustees shall comprise fifty Corporate Members of the Institute. The Trustees named in the Act of incorporation shall divide their number into five classes, to be drawn by lot. The first class shall hold office for one year, the second class for two years, the third class for three years, the fourth class for four years, and the fifth class for five years, succeeding the second Friday in May, 1890. On the second Monday in January of each year ten Trustees shall be elected, who shall hold office for five years, from the second Friday of the May following, or until their successors are elected. The polls shall be open from five to nine o'clock P. M. on the day of election.

SEC. II. The officers of the Board shall be a President, three Vice-Presidents, a Director, a Treasurer, and a Secretary. They shall be elected by the Board of Trustees, on the second Friday in May, each year, and shall hold office for one year, or until their successors are elected.

SEC. III. The Board of Trustees shall have power to fill vacancies in the Board or its offices, and to declare the seat of any member vacated who shall have failed to attend three successive meetings of the Board, unless written excuse satisfactory to the Board shall have been presented.

SEC. IV. The regular meetings of the Board shall be held on the second Friday of each month, except the months of July, August, and September, at such hour as the Board from time to time may appoint, written notices for which shall be mailed to each member.

SEC. V. It shall be the duty of the President to preside at the meetings of the Trustees, the Corporation and the Institute, and to present to the Trustees an Annual Report at the regular meeting in May. In the absence of the

President, the first Vice-President in order, who is present, shall act in the place of the President.

SEC. VI. It shall be the duty of the Treasurer to take charge of the seal, money, funds and securities of the Association; to collect all accounts and sums of money due and payable to the Institute; to pay all bills and accounts when duly audited; to keep a record of all the financial transactions of the Institute, and to report the same to the Board of Trustees as often as required.

SEC. VII. It shall be the duty of the Director, subject to the direction of the Board of Trustees, and the several committees of the Board, to have charge of the Museums and Libraries of the Corporation; to execute the wishes of the Board and of the several Committees; to labor for the best interests of the Corporation, and to report to the Board as often as it shall direct concerning the work and needs of the Institute.

SEC. VIII. It shall be the duty of the Secretary to make and keep a record of the proceedings of the Board of Trustees; to send notices of all meetings of the Board; to notify all persons of their election as Trustees and officers, and to make an Annual Report to the Trustees in the month of May on the progress of the Institute.

SEC. IX. The Secretary shall call special meetings of the Board at the written request of the President, or of any ten Trustees.

SEC. X. All elections shall be by ballot. A majority of the votes cast shall be necessary to an election.

### ARTICLE III.—COMMITTEES OF THE CORPORATION.

SECTION I. The President shall appoint annually in the month of May the following Standing Committees of five members each:

1. COMMITTEE OF WAYS AND MEANS.
2. COMMITTEE ON ART MUSEUMS.
3. COMMITTEE ON MUSEUMS OF SCIENCE.

4. COMMITTEE ON LIBRARIES.
5. COMMITTEE ON LECTURES.
6. COMMITTEE ON EDUCATION.
7. COMMITTEE ON MUSIC.
8. COMMITTEE ON BOTANIC GARDEN AND ARBORETUM.
9. COMMITTEE ON MEMBERSHIP.

The President, Director and Treasurer shall be *ex-officio* members of each of the Standing Committees.

SEC. II. The President, Director, Treasurer and Secretary of the Board, together with the Chairman of the Standing Committees, shall constitute the EXECUTIVE COMMITTEE of the Board of Trustees. The President and Secretary of said Board shall be respectively President and Secretary of the Executive Committee.

SEC. III. The EXECUTIVE COMMITTEE shall, under the direction of the Board of Trustees, have the general care of the Institute Buildings, make necessary repairs, regulate the use of the buildings and the collections by the public, and, in general, execute the will of the Board in all matters not specially delegated to other committees or persons.

SEC. IV. THE COMMITTEE OF WAYS AND MEANS shall, under the direction of the Board of Trustees, have charge of the collection, increase and investment of the endowment and permanent funds of the Institute, and shall have general charge of the financial interest of the Corporation.

SEC. V. The COMMITTEE ON ART MUSEUMS, under the direction of the Board of Trustees, shall have the general charge of the art collections of the Institute and the exhibition of the same; shall effect the purchase, loan or sale of all works of art on behalf of the Institute; and, in general, shall endeavor to increase and improve the art collections of the Corporation.

SEC. VI. The COMMITTEE ON MUSEUMS OF SCIENCE, under the direction of the Board of Trustees, shall have general charge of the scientific collections of the Museums and their exhibition; shall effect the purchase, loan or sale

of all collections illustrating the sciences, on behalf of the Institute; and, in general, shall endeavor to increase and improve the collections and the facilities of the Institute for scientific research.

SEC. VII. The COMMITTEE ON LIBRARIES, under the direction of the Board of Trustees, shall have general charge of the Libraries of the Institute and their arrangement and use; shall effect the purchase, loan or sale of all books, pamphlets or other materials properly belonging to the libraries, on behalf of the corporation; and, in general, shall endeavor to increase and improve the Libraries of the Institute, and their usefulness to all who have access to them.

SEC. VIII. The COMMITTEE ON LECTURES, under the direction of the Board of Trustees, shall have general charge of the courses of lectures given under the auspices of the Institute.

SEC. IX. The COMMITTEE ON EDUCATION, under the direction of the Board of Trustees, shall have general charge of the work undertaken by the Institute for the benefit of those citizens, schools and higher institutions of learning in the city that seek to avail themselves of the opportunities afforded by the Institute for systematic instruction, investigation, production, or research.

SEC. X. The COMMITTEE ON MUSIC, under the direction of the Board of Trustees, shall have general supervision of the concerts and musical instruction given under the auspices of the Institute.

SEC. XI. The COMMITTEE ON BOTANIC GARDEN AND ARBORETUM, under the direction of the Board of Trustees, shall have general supervision of the grounds adjacent to the Museum Building and of any Botanic Garden or Arbo-retum that may be located on such lands.

SEC. XII. The COMMITTEE ON MEMBERSHIP, under the direction of the Board of Trustees, shall have charge of the admission of members, and the general increase of the membership of the Institute.

SEC. XIII. The Committees named in this article shall make a report to the Board of Trustees at each regular meeting.

ARTICLE IV.—THE ASSOCIATE MEMBERS.

SECTION I. The active educational work of the Institute in the Arts and Sciences shall be conducted by the GENERAL BODY OF ASSOCIATE MEMBERS, and the several Departments organized by them, under the authority of the Trustees.

SEC. II. The officers of the General Body of Associate Members shall be a President, a Vice-President from each Department, a Treasurer, and a Secretary. The foregoing officers, together with the President and Director of the Board of Trustees, shall constitute the Council of the Institute.

SEC. III. The following Departments composed of the Associate Members of the Institute may be formed: ANTHROPOLOGY, ARCHÆOLOGY, ARCHITECTURE, ASTRONOMY, BOTANY, CHEMISTRY, DOMESTIC SCIENCE, ELECTRICITY, ENGINEERING, ENTOMOLOGY, FINE ARTS, GEOGRAPHY, GEOLOGY, LAW, MATHEMATICS, MICROSCOPY, MINERALOGY, MUSIC, PAINTING, PEDAGOGY, PHILOLOGY, PHOTOGRAPHY, PHYSICS, POLITICAL SCIENCE, PSYCHOLOGY, SCULPTURE and ZOOLOGY.

SEC. IV. The officers of each Department shall be a President, a Vice-President, and a Secretary. Such additional officers, constitution, by-laws or rules and regulations as are required by any Department in the accomplishment of its work, and are not provided by the general organization of the Institute, shall be provided by the Department itself. The President of a Department shall be a Vice-President of the General Body of Associate Members.

SEC. V. The Annual Meeting of the Associate Members shall be held on the Tuesday following the first Saturday in May. The Annual Meetings of the various Departments of Associate Members shall be held in April. All other



meetings of the Departments shall be arranged by the Departments themselves.

SEC. VI. The regular meetings of the Council shall be on the fourth Saturday in each month, omitting July, August and September. The regular meeting in May shall also be the Annual Meeting of the Council. At its Annual Meeting the Council shall elect its President and Secretary, who shall be also respectively the President and Secretary of the Associate Members.

SEC. VII. It shall be one of the duties of the President of the Associate Members to present at their Annual Meeting, or at the close of his term of office, an address, which shall include a review of the present condition of some Department of the Arts and Sciences. This address shall be incorporated in the proceedings of the Institute.

SEC. VIII. The Council shall recommend to the Board of Trustees measures that will facilitate the general work of the Institute and of its various Departments in the Arts and Sciences, and shall have the direction of the general work of the body of Associate Members.

SEC. IX. The Council shall appoint at its regular meeting in May the following Standing Committees of five members each :

1. COMMITTEE ON LECTURES AND MEETINGS.
2. COMMITTEE ON PUBLICATIONS.
3. COMMITTEE ON MEMBERSHIP.
4. COMMITTEE ON APPARATUS.
5. COMMITTEE ON SCIENTIFIC WORK.
6. COMMITTEE ON THE ARTS.

The President and Secretary of the Council shall be *ex-officio* members of the Standing Committees.

SEC. X. Propositions for Associate Membership and Corresponding Membership shall be presented to the Council. Persons already Associate Members or Corresponding Members may be elected members of any Department by the

Department itself. The President and Director of the Board of Trustees, and the President and Secretary of the Associate Members, shall be *ex-officio* members of each Department of the Institute.

SEC. XI. It shall be the duty of each Department of Associate Members to make an annual report in the month of May to the Board of Trustees and to the Council of Associate Members on the work, the needs, the membership, and the attendance of the Department.

#### ARTICLE V.—COLLECTIONS AND FUNDS.

SECTION I. The Board of Trustees shall empower the Departments of the Institute to make, classify, preserve and exhibit the collections in the Departments of the Arts and Sciences belonging to their respective branches. Collections shall be admitted to the Museums and Libraries when they shall have been approved by a Committee of Experts appointed by the Department or Departments immediately concerned, and when approved by the Board of Trustees.

SEC. II. The Annual Dues received from the Associate Members shall be apportioned by the Trustees, on recommendation of the Council, among the various Departments of Associate Members, due regard being had for the number of members, the average attendance, the amount and character of the work done, and the needs of each Department. All other moneys received by the Institute shall be placed to the credit of the General Fund of the Institute, unless otherwise designated by the Board of Trustees, or by the person or estate from which they are received.

#### ARTICLE VI.—AMENDMENTS.

This Constitution may be amended by the concurrent vote of the Board of Directors and the Council, at regular meetings of the same, provided written notice of the proposed amendment is mailed to each member of the respective bodies at least four days before their respective meetings.

# THE BY-LAWS OF THE BOARD OF TRUSTEES.

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SECTION I. The Order of Business at the meetings of the Board of Trustees shall be as follows :

1. Reading of Minutes.
2. Communications.
3. Report of Treasurer.
4. Report of Director.
5. Report of Executive Committee.
6. Report of Standing Committees.
7. Report of Special Committees.
8. Election of Officers or Members.
9. Unfinished Business.
10. Motions and Miscellaneous Business.

This order may be suspended by vote of the Board at any meeting.

SEC. II. All bills against the Institute, contracted by the authority of the Board, shall be audited by the President and Director. All bills contracted by the Executive Committee shall be audited by the President and the Secretary of the Board. All bills contracted by a standing or Special Committee shall be audited by the President of the Board and the Chairman of the Committee under whose auspices the expense has been incurred. All bills payable from the Associate Funds of the Institute shall be audited by the Secretary and the Assistant Secretary of the Council.

SEC. III. The Treasurer shall make a monthly report of the finances of the Institute, and an annual report at the regular meeting in May.

SEC. IV. The Director shall present a report of the work done by the Institute in each succeeding month, and an annual report of the work of the Institute at the regular meeting of the Board in the month of May.

SEC. V. The Executive Committee shall present monthly reports at the regular meetings of the Board, and shall present an annual report at the regular meeting in May.

SEC. VI. The President, Treasurer, Director and Secretary may incur petty expenses in the discharge of their duties, the sum of which shall not exceed One Hundred Dollars, in each case, in any given month.

SEC. VII. The Director shall give as much of his time to the Institute and its interests as the Board of Trustees shall demand, and shall receive compensation therefor. The compensation shall be fixed each year by the Trustees.

SEC. VIII. These By-laws may be amended at any regular meeting of the Board, provided notice of the proposed amendments is mailed to each member of the Board, at least four days previous to the meeting.

## WORK OF THE YEAR 1898-9.

### Anniversary Meetings and General Lectures and Addresses.

#### I.—THE OPENING MEETING AND ADDRESS.

The opening meeting of the Institute for the season of 1898-99 was held on Thursday evening, October 6th. Mr. A. AUGUSTUS HEALY, President of the Board of Trustees, presided, and in a brief address extended, on behalf of the officers, trustees and council of the Institute, a cordial greeting to the members, congratulating them upon the large number and the excellence of the lectures, addresses, courses of instruction and readings prepared for the coming season. He then introduced to the audience President CHARLES KENDALL ADAMS, LL.D., of the University of Wisconsin, who delivered an address on "The Lessons Taught by the Recent Spanish-American War."

#### II.—THE GLADSTONE MEMORIAL MEETING.

A meeting was held on Wednesday evening, December 14th, in commemoration of the life and services of the late Hon. WILLIAM E. GLADSTONE, LL.D., ex-Premier of Great Britain. The Memorial address was delivered by the Rev. ROBERT R. MEREDITH, D.D., Pastor of the Tompkins Avenue Congregational Church of Brooklyn.

#### III.—A SERIES OF ADDRESSES ON "THE OLD WORLD IN THE NEW."

*Oct. 7.*—Address by the Rev. EDWARD G. PORTER, of Boston, on "What Spain Has Done for America."

*Oct. 14.*—Address by the Rev. WILLIAM ELLIOT GRIFFIS, D.D., of Ithaca, on "What Italy Has Done for America."

*Oct. 21.*—Address by Prof. JEAN CHARLEMAGNE BRACQ, of Vassar College, on "What France Has Done for America."

*Oct. 28.*—Address by Mr. JOSEPH P. WARREN, of Boston, on "What Norway and Sweden Have Done for America."

*Nov. 4.*—Address by Mr. EDWIN D. MEAD, of Boston, Editor of the *New England Magazine*, on "What Holland Has Done for America."

*Nov. 11.*—Address by Miss ANNA B. THOMPSON, of Boston, on "What Germany Has Done for America."

*Nov. 21.*—Address by Prof. CHARLES H. LEVERMORE, PH.D., President of Adelphi College, on "What England and Ireland Have Done for America."

The above addresses were given on successive Friday evenings, under the joint auspices of the Long Island Historical Society and the Institute.

#### IV.—A COURSE OF LECTURES ON "THE GREAT EUROPEAN POWERS AND THEIR RELATIONS TO THE UNITED STATES."

*Dec. 23.*—"How and Why England Became an Empire."

*Dec. 30.*—"The British Empire of To-day; the Necessary Conditions of its Existence; its Burdens and Responsibilities; its Signs of Weakness and Limits of Expansion."

*Jan. 4.*—"Anglo-American Relations, Past and Present; Diplomatic, Political and Social; the Outlook."

*Jan. 13.*—"France; her Genius, her Mission and her Mistakes; her Ideas of Liberty and Equality Compared with our Own."

*Jan. 20.*—"Our Relations with France; the Mexican Controversy and its Results; the Two Republics Compared; why Self-government Fails in France."

*Jan. 27.*—"Germany; Causes of Her Slow Political Development; Influence of the German Element in America; Relations with the United States."

*Feb. 3.*—"Russia and our Relations with the Russian Empire."

*Feb. 10.*—"The Ottoman Empire and the Relations of the United States to the Eastern Question."

The above course was given by ARTHUR M. WHEELER, LL.D., Professor of History at Yale University, and was given at this time because of interest created by the recent war with Spain in the past and present relations between the United States and the leading powers of Europe.

#### V.—A COURSE OF LECTURES ON "THE SPANIARD AND THE ANGLO-SAXON."

*Feb. 17.*—"The Century of Spain's Greatness, 1492-1588."

*Feb. 24.*—"Spain and England in Europe and in America, 1588-1689."

*Mar. 3.*—"Spain and England in the Inter-Colonial Wars, 1689-1783."

*Mar. 10.*—"Spain and the United States during the War of the Revolution and the Early Years of the Republic, 1775-1795."

*Mar. 17.*—"The Ruin of Spain's Power; from 1795 to 1823."

The foregoing course was given by ALBERT BUSHNELL HART, PH.D., Professor of History at Harvard University, on successive Friday evenings.

#### VI.—A COURSE OF ILLUSTRATED LECTURES ON "OLD HISTORIC TOWNS AND EARLY HISTORY IN NEW ENGLAND."

*Oct. 31.*—Lecture by Rev. SAMUEL A. ELIOT, of Boston, on "Captain John Smith, the Father of New England, and his American Exploits," illustrated by lantern photographs.

*Dec. 20.*—Lecture by the Hon. ROBERT D. BENEDICT, LL.D., ex-President of the New England Society, on "The Devils of Loudun," or "Some Comparisons between Witchcraft in Salem and in Europe."

*Jan. 31.*—Lecture by Mrs. JULIA WARD HOWE, of Boston, Mass., on "The Brook Farm Experiment."

*April 4.*—Lecture by the Rev. SAMUEL A. ELIOT, of Boston, on "Boston and her Metropolitan Park System," illustrated by lantern photographs.

The above course, under the joint auspices of the NEW ENGLAND SOCIETY, the LONG ISLAND HISTORICAL SOCIETY and the INSTITUTE, was given in recognition of the fact that the interest which leads so many Americans to visit the historic towns and picturesque scenes of England, France, Germany and other European countries, also leads all Americans who love their country, her institutions and history, to feel a still greater interest in those towns in our own country that have been consecrated by the faith, the struggle and the blood of patriots to the cause of liberty, truth and righteousness.

Supplementary to this course, three special lectures were given as follows:

*Nov. 11.*—Lecture by Mr. HENRY G. PEABODY, of Boston, Mass., on "The Scenery of the White Mountains," illustrated by beautiful colored lantern photographs.

*Dec. 1.*—Lecture by Mr. WENDELL PHILLIPS STAFFORD, of St. Johnsbury, Vt., on "John Greenleaf Whittier."

*Mar. 23.*—Lecture by the Rev. J. J. LEWIS, of Boston, on "The Scenery of New England," illustrated by beautiful colored lantern photographs.

#### VII.—A COURSE OF SIX LECTURES ON "THE RELIGIOUS LIFE OF THE HEBREWS BEFORE THE EXILE."

Prof. KARL BUDDE, PH.D., D.D., of Strasburg University, Germany, discoverer of the form of the Hebrew Elegy, author of "Biblische Urgeschichte," "Die Bücher Richter und Samuel," etc., delivered a course of lectures on "The Early Religious Life of the Hebrews," during the months of November and December. This course was the fourth in the series given under the joint auspices



of the INSTITUTE and the AMERICAN COMMITTEE ON LECTURES ON THE HISTORY OF RELIGIONS. The first course was given in 1895 by Prof. T. W. RHYS DAVIDS, L.H.D., of London, on "Buddhism;" the second in 1896, by Prof. DANIEL G. BRINTON, SC.D., LL.D., of Philadelphia, on "The Religions of Primitive Peoples;" the third in 1897, by the Rev. THOMAS KELLEY CHEYNE, M.A., D.D., Canon of Rochester and Professor of Sacred Literature at Oxford University, on "The Religious Life of the Hebrews After the Exile." The lectures already delivered have been published in book form by Messrs. G. P. Putnam & Sons. The lectures by Professor BUDDE were also delivered at the Lowell Institute in Boston, the Peabody Institute in Baltimore; Brown University, Providence; Yale University, New Haven; Cornell University, Ithaca, and at the University of Pennsylvania, Philadelphia. In Brooklyn the lectures occurred on successive Tuesday evenings on the following dates and subjects:

*Nov. 8.*—"The Origin of the Religion of Israel, and of the Hebrew Worship of Jehovah."

*Nov. 15.*—"The Ancient Worship of Jehovah."

*Nov. 22.*—"The Hebrew Priests, Prophets and Kings."

*Nov. 29.*—"The Written Prophecies of Israel."

*Dec. 6.*—"Isaiah, the Prophet of the Southern Kingdom."

*Dec. 13.*—"Jeremiah, Ezekiel and the Hebrew Faith."

#### VIII.—A COURSE OF SIX LECTURES ON "THE CURRENCY QUESTION IN THE UNITED STATES."

*Jan. 3.*—"The Genesis of the Existing Situation; Legislation during the Civil War; the Greenback and the Resumption of Specie Payments."

*Jan. 10.*—"The Place of Silver in Our National Currency; Silver Legislation since the War; the Chimera of Free Coinage."

*Jan. 17.*—"International Aspects of the Situation ; the General Abandonment of Silver ; the Influences of International Trade."

*Jan. 24.*—"The Government and the Banks ; Federal vs. State Banks ; Bank Notes vs. Greenbacks."

*Jan. 31.*—"The Banks and Business ; the Advantages and Shortcomings of the Present Banking System."

*Feb. 7.*—"The Improvement of the Currency ; Requisites of a Permanent and Stable Currency ; the Report of the Indianapolis Commission ; the Importance of Action by Congress."

The foregoing course was delivered by SIDNEY SHERWOOD, PH. D., Professor of Political Economy, Johns Hopkins University, Baltimore. The subjects were treated in an historical and scientific spirit, the purpose of the course being to indicate the good and bad features of our present forms of currency, and to indicate the safest methods of establishing our currency on a secure foundation.

## IX.—A GENERAL COURSE OF ADDRESSES AND LECTURES.

*Sept. 29.*—Lecture by Mr. WILLIAM W. ELLSWORTH, of the *Century Magazine*, New York City, entitled "From Lexington to Concord," illustrated by 160 lantern photographs of battlefields, historic houses and monuments of the Revolution, photographs of rare prints and manuscripts, and of paintings of battle scenes and heroes of the revolutionary war.

*Sept. 30.*—Lecture by Mr. HENRY W. RAYMOND, of Germantown, Pa., on "The Fighting Ship of Yesterday and Today," illustrated by lantern photographs of every ship in the United States Navy, views of ports and countries which were the scene of action during the recent Spanish war, and portraits of our naval commandants.

*Oct. 15.*—Lecture by Mr. WILLIAM W. ELLSWORTH, of the *Century Magazine*, New York City, on "Arnold and André," or "The Story of Treason," illustrated by 150 lantern photographs, mostly colored, and representing scenes from the

revolutionary period and reproductions of rare prints and manuscripts and of portraits from English and American collections.

*Oct. 17.*—Lecture by Mrs. FREDERICK DOUGLASS, of Washington, D.C., on "The Convict Lease System of the Southern States."

*Nov. 9.*—Lecture by Mr. ADELBERT M. DEWEY, of the Department of the Interior, on "Rear Admiral Dewey, the Hero of Manila, and his Naval Victory," illustrated by lantern photographs.

*Dec. 21.*—Lecture by Mr. RAMON REYES LALA, M.A., a native of Manila, on "The Philippine Islands," illustrated by lantern photographs.

*Dec. 28.*—Lecture by Mr. FRANK R. ROBERSON, of New York, on "Manila and the Philippines," illustrated by colored lantern photographs.

*Jan. 18.*—Address by the Hon. JOSEPH H. WALKER, Member of Congress from Massachusetts and Chairman of the Committee on Banking and Currency of the House of Representatives, on "The Currency Problems of the United States."

*Jan. 23.*—Address by the Rev. WASHINGTON GLADDEN, D.D., of Columbus, Ohio, on "The Man and the Nation."

#### X.—A COURSE OF FIVE LECTURES ON "THE GOVERNMENT OF CITIES."

A course of five lectures was given by Prof. WOODROW WILSON, PH.D., LL.D., of Princeton University, on "The Government of Cities," on Friday evenings, with dates and subjects, as follows:

*Nov. 18.*—"The Origins of Our City Governments."

*Nov. 25.*—"The Principles of Municipal Organization."

*Dec. 2.*—"The City Executive."

*Dec. 9.*—"The City Council."

*Dec. 16.*—"Recent Changes in the Forms of City Government."

## XI.—THE GRAHAM FOUNDATION LECTURES.

In presenting to the Institute its first Endowment Fund, Mr. AUGUSTUS GRAHAM stipulated that the income of a portion of the fund should be used in providing, from time to time, a course of lectures on "*The Power, Wisdom and Goodness of God as Manifested in His Works.*" These lectures during the past season were given as follows:

*Jan. 22.*—Lecture by the Rev. WASHINGTON GLADDEN, D.D., of Columbus, Ohio, on "The Righteousness of God as Manifested in His Works."

*Feb. 19.*—Lecture by the Rev. SAMUEL R. CALTHROP, D.D., of Syracuse, N. Y., on "The Kingdom of God is Within You."

*Mar. 12.*—Lecture by the Rev. J. F. NUGENT, of the Church of the Visitation, Des Moines, Iowa, on "The Wisdom of God as Manifested in His Works,"

## GENERAL EXHIBITIONS BY THE DEPARTMENTS.

1. The LOAN EXHIBITIONS OF PAINTINGS AND OTHER WORKS OF ART were continued throughout the year in the Galleries on the third floor of the Museum Building in conjunction with the permanent exhibition of the Institute Collections of Paintings and other works of Art.

2. The DEPARTMENT OF ENTOMOLOGY gave its SIXTH ANNUAL EXHIBITION in the Galleries on the second floor of the Museum Building from Saturday, October 8th, until Monday, October 31st. The exhibition included portions of the collections of Mrs. BERTHOLD NEUMOGEN, Mr. EDWARD L. GRAEF, and Mr. JACOB DOLL, Members of the Department.

3. The SECTION ON ART EDUCATION of the Department of Pedagogy gave its THIRD ANNUAL EXHIBITION OF WORKS OF ART SUITABLE FOR SCHOOL ROOM DECORATION, in the Galleries of the Art Building in Montague street, under the auspices of the Committee on Art Instruction of the Department of Pedagogy, from Wednesday, November 2d, to

Wednesday, November 16th, inclusive. A catalogue of the works of art exhibited was printed and contained four hundred and sixty-two numbers. A full account of the exhibition may be found under the Department of Pedagogy.

4. The DEPARTMENT OF GEOLOGY gave its FIFTH ANNUAL EXHIBITION in the Galleries on the second floor of the Museum Building from Saturday, November 5th, until Monday, November 21st. The exhibition included portions of the Geological Collections of the Institute and Loan Collections by Capt. C. A. SCANLAN, Dr. JOSEPH H. HUNT, and by Members of the Department.

5. The DEPARTMENT OF MINERALOGY gave its FIFTH ANNUAL EXHIBITION in the Galleries on the second floor of the Museum Building from Saturday, November 26th, until Monday, January 16th. The exhibition included portions of the Institute Collections and Loan Collections by Messrs. WILLIAM G. ROTHE, WILLIAM URBAN, Jr., CHARLES L. HATCH, JAMES WALKER, WALLACE GOULD LEVISON, GEORGE E. ASHBY, Prof. DANIEL S. MARTIN, Prof. FRANKLIN W. HOOPER, and GEORGE L. ENGLISH.

6. The DEPARTMENT OF ARCHÆOLOGY gave its FIFTH ANNUAL EXHIBITION in the Galleries on the second floor of the Museum Building, from Saturday, January 21st, until Monday, February 20th. The exhibition included portions of the Institute Collections in Archæology and Loan Collections by Mr. E. O. MATTHEWS, of St. Louis, in Mexican Archæology; by Mr. C. W. RIGGS, in New Mexican Archæology; and by Mr. WALTER C. WYMAN, of Chicago, in Wisconsin Copper Implements.

7. The DEPARTMENT OF MICROSCOPY gave its TWELFTH ANNUAL EXHIBITION at the Art Galleries in Montague street, on Saturday evening, January 7th, from 8 until 11 P. M. Eighty-one microscopes were in use during the evening. A fuller account of the exhibition will be found under the Department of Microscopy.

8. The SECTION ON PHILATELY gave its FIRST ANNUAL

EXHIBITION at the Art Galleries in Montague street, from Saturday, March 18th, to April 1st, inclusive. A full description of the exhibition will be found under the Section on Philately.

9. An ARCHITECTURAL EXHIBITION, given by the Brooklyn Chapter of the AMERICAN INSTITUTE OF ARCHITECTS, was held at the Museum Building, Eastern Parkway, from Thursday, March 15th, to Monday, April 17th. A full account of this exhibition will be found under the Department of Architecture.

10. The DEPARTMENT OF PHOTOGRAPHY gave its NINTH ANNUAL EXHIBITION OF PHOTOGRAPHIC PRINTS AND PHOTOGRAPHIC APPARATUS in the Art Galleries in Montague street, from April 22d to May 6th, inclusive. A catalogue of the exhibition was printed containing four hundred and seventy-three entries. A full account of the exhibition may be found under the Department of Photography.

11. The DEPARTMENT OF PAINTING, in conjunction with the Brooklyn Art Association, gave its SIXTH ANNUAL SPRING EXHIBITION of the work of the Brooklyn Art School, from May 23d until May 26th, in the Studio Rooms of the School in the Ovington Building, 246-252 Fulton street.

The main collections of the DEPARTMENTS OF ARCHÆOLOGY, ARCHITECTURE, BOTANY, CHEMISTRY, ENTOMOLOGY, GEOGRAPHY, GEOLOGY, MINERALOGY, SCULPTURE and ZOOLOGY are on permanent exhibition at the New Museum Building on Prospect Hill, and are open and free to the public from 9 A. M. to 6 P. M. on Wednesday, Thursday, Friday and Saturday of each week, and on all legal holidays except Sunday; also on Thursday and Friday evenings of each week from 7.30 to 9.45 P. M., and on Sunday afternoons from 2.00 to 6.00 o'clock. The collections are open to the public on Mondays and Tuesdays of each week, by the payment of twenty-five cents for adults and ten cents for children under sixteen years.

# WORK OF THE DEPARTMENTS.

## DEPARTMENT OF ARCHÆOLOGY.

### *Officers.*

Prof. WILLIAM H. GOODYEAR, M.A.,	<i>President.</i>
Prof. THOMAS FLINT, M.A.,	<i>Vice-President.</i>
STANSBURY HAGAR, B.A..	<i>Secretary.</i>

### *Executive Committee.*

Prof. WM. H. GOODYEAR, M.A.	CHARLES E. WEST, LL.D.
Prof. FREDERIC W. OSBORN, M.A.	JOSEPH H. HUNT, M.D.
BARR FERREE, M.A.	JOHN BLISS.
Prof. THOMAS FLINT, M.A.	GEORGE N. OLCOTT, B.A.
FRANK SHERMAN BENSON.	STANSBURY HAGAR, B.A.
Prof. GEORGE M. WHICHER, M.A.	MISS LOUISE BOTH-HENDRIKSEN.
	ALBERT A. HOPKINS.

The Department was organized on May 8, 1889, with twenty-four members. The present membership is one hundred and forty-eight. The Department has held regular monthly meetings during the season, on the third Monday evening of each month. The lectures delivered at these meetings have been as follows :

*Oct. 17.*—Lecture by Prof. CARL LUMHOLTZ, PH.D., of the American Museum of Natural History, on "The Tarahumares of Mexico ;—the Cave Dwellers of America," illustrated by lantern photographs.

*Nov. 21.*—Lecture by Prof. CARL LUMHOLTZ, PH.D., of the American Museum of Natural History, on "The Customs and Beliefs of the Tarahumares," illustrated by lantern photographs.

*Dec. 19.*—Lecture by Mr. STANSBURY HAGAR, Secretary of the Department, on "The Curious Customs of the Micmac Indians of Nova Scotia," illustrated by lantern photographs.

*Jan. 16.*—Lecture by Mr. MARSHALL H. SAVILLE, of the

American Museum of Natural History, on "Recent Explorations in Mexico and Central America, and a Résumé of Recent Work in the Maya Territory," illustrated by lantern photographs.

*Feb. 20.*—Lecture by Prof. WILLIAM J. MCGEE, PH.D., of the United States Bureau of Ethnology, on "The Seri Indians of Sonora, and the Strange Inhabitants of the Island of Seris," illustrated by lantern photographs.

*Mar. 20.*—Lecture by Mr. HARLAN I. SMITH, of the American Museum of Natural History and of the recent MORRIS K. JESSUP EXPEDITION IN ALASKA, on "The Northwest Coast Indians and Their Antecedents," illustrated by lantern photographs.

*Apr. 17.*—Lecture by JESSE W. FEWKES, PH.D., of the United States Bureau of Ethnology, Washington, D. C., Editor of the *American Journal of Archaeology*, on "The Ritual of the Moki Indians," illustrated by lantern photographs and by the aid of the graphophone.

*May 15.*—Lecture by Mr. FRANK HAMILTON CUSHING, of the United States Bureau of Ethnology, on "The Ancient Key Dwellers and the Mound Builders of Florida," illustrated by lantern photographs.

Besides the foregoing lectures a course of six illustrated lectures was given by Prof. WILLIAM H. GOODYEAR, M.A., President of the Department, on "Etruscan and Early Roman Art and Architecture." This course was under the joint auspices of this Department and the Department of Architecture. The dates and subjects of the lectures were as follows:

*Oct. 4.*—"The Prehistoric, Gallic, and Early Etruscan Culture in Italy."

*Oct. 11.*—"The Early Days of the Roman City and Roman Italy; the Græco-Etruscan Period."

*Oct. 18.*—"The Culture and Monuments of the Roman Provinces Before and After the Conquest."



*Oct. 25.*—" Picturesque and Panoramic Rome ; the Period of the Empire."

*Nov. 1.*—" Picturesque and Panoramic Rome ; the Period of the Empire."

*Nov. 7.*—" Picturesque and Panoramic Rome " (continued).

The Archæological collections of the Institute comprise the WILLIAM WALLACE TOOKER Collection of Indian Relics of Long Island, the GEORGE F. KUNZ Collection of Mound Dwellers Relics of the Mississippi Valley, the FRANKLIN W. HOOPER Collection of Swiss Lake Dwellers Relics, and several fragmentary collections.

The William Wallace Tooker Collection is very large and complete, comprising upwards of fifteen thousand specimens, representing the handiwork of the Indians of Long Island, and comprising stone axes and adzes, stone chisels and gouges, stone mortars and pestles, stone hatchets and arrow heads, stone mills and mauls, stone amulets and carved figures of birds, animals and man ; bone implements of many kinds, stone sinkers and anchors, an oar carved in oak ; wooden mortars ; stone, bone and horn knives and scrapers ; many implements of pottery and several complete burial urns (restored) ; many pieces of wampum and fragments of shells, together with bones of domestic and wild animals, and fragments of the skeleton of the Indian. The collection forms as complete a basis of knowledge of the prehistoric inhabitants of Long Island as has been secured for the prehistoric peoples of any other portion of our country east of the Allegheny mountains.

The Fifth Annual Archaeological Exhibition was held by the Department on the second floor of the Museum Building, from Saturday, January 21st, until Monday, February 20th. The exhibition included portions of the Institute collections already referred to, and in addition the E. O. MATTHEWS Collection of Aztec Relics from Mexico and Yucatan ; the CLARENCE W. RIGGS Collection of Vases and Pottery from

the Pueblos of Mexico and New Mexico ; and the WALTER C. WYMAN Collection of Ancient Copper Implements from Wisconsin.

Additions to the collections and libraries of the Department have been made during the year, as follows :

From ROBERT G. ECCLES, M.D., twenty-five specimens of Cliff-Dwellers Pottery, and one stone idol, from Cliff Cañon, Mesaverda, California.

From M. ANGELO WERTHEIMER, ex-Assistant in the Santa Marta Expedition, twelve stone axes taken from graves at "Les Tres Cruces," near Santa Marta, Department of the Magdalena, United States of Colombia.

From Mr. R. R. BOWKER, Member of the Board of Trustees of the Institute, one mummied Egyptian cat.

From Mr. EDWARD S. LARRALDE, a model of an Indian house, an Indian toy, four imitations of birds made by Indians, and four paintings on canvas made by Indians.

From Mr. SAMUEL WILEY, of Parkville, a Mexican Stone Idol decorated with obsidian.

From Dr. SIEGMUND BEHRENDSON, a specimen of the native Zulu bark covering.

From Mrs. LOUIS BOSSERT, six specimens of Mexican figurines.

Loans to the collections of the Department during the year have been received as follows :

From Mr. SAMUEL MCELROY, C. E., five pitchers used by the natives in the valley of Santa, Peru.

From Mr. FRANK SHERMAN BENSON, a collection of Greek coins, comprising coins from Magna Graecia, Sicily, Syracuse, Macedon, Thrace, Hellas, Crete, Asia and Africa ; and two frames containing photographs of Greek coins from Italy, Sicily, Syracuse, Hellas, Crete, Asia and Africa.

Additions to the Library of the Department of Archaeology have been received as follows :

From the FIELD COLUMBIAN MUSEUM, "Ruins of Richmook, Yucatan."

From Prof. EDWARD S. MORSE, "Was Middle America Peopled from Asia?"

From DEPARTMENT OF THE INTERIOR, "The Lamp of the Eskimo."

The Institute has acquired by purchase from Ward's Natural Science establishment, Rochester, the following models :

(1) An ancient Cliff Fortress in Arizona, (2) the Pueblo of Tequa, (3) the Pueblo of Acoma, Arizona, (4) the Pueblo of Taos, Mexico, (5, 6 and 7) three ancient Cliff towns and ruins in Colorado and Arizona, (8) restoration of a Pueblo in New Mexico.

#### DEPARTMENT OF ARCHITECTURE.

BARR FERREE,  
VINCENT C. GRIFFITH,  
WOODRUFF LEEMING,

*President.*  
*Vice-President.*  
*Secretary.*

#### *Executive Committee.*

BARR FERREE,  
VINCENT C. GRIFFITH,  
WOODRUFF LEEMING,  
ALBERT A. HOPKINS,

STEPHEN W. DODGE,  
CHARLES M. SHEAN,  
LOUIS DE COPPET BERG,  
GUSTAV A. SKRZYNEKI,

RICHARD M. UPJOHN.

#### *Committee on Current Work.*

ALBERT A. HOPKINS,

GEORGE T. MORSE.

FRANKLIN W. HOOPER.

#### *Committee on Museum.*

RICHARD M. UPJOHN,

JOHN G. GLOVER.

HENRY M. CONGDON,

*Committee on Competitions and Awards.*

STEPHEN W. DODGE,

H. B. CLEMENT.

J. MONROE HEWLITT,

*Committee on Public Works.*

CHARLES M. SHEFAN,

GEORGE M. LAWTON.

WILLIAM B. TUBBY

*Committee on Social Intercourse.*

LOUIS DE COPPET BERG,

OSWALD SPEIR.

PETER I. COLLINS

*Committee on Finance and Audit.*

GUSTAV A. SKRZYNEKI,

A. MILTON NAPIER.

RUDOLPHE L. DAUS

The Department of Architecture was organized on December 13, 1889, with a membership of one hundred and eight. The present membership is two hundred and ninety, an increase of twenty two during the past year. The meetings of the Department are regularly held on the first Thursday evening of each month. The lectures at the regular meetings during the past season have been as follows:

*Oct. 5.*—Lecture by Prof. D. CADY EATON, of Yale University, New Haven, on "Mont St. Michel; the Island and its Historical Buildings," illustrated by lantern photographs.

*Nov. 3.*—Lecture by Prof. A. D. F. HAMLIN, M.A., of Columbia University, on "Modern Educational Buildings; Museums, Libraries, Colleges and Schools," illustrated by lantern photographs.

*Jan. 5.*—Lecture by Mr. BARR FERREE, President of the Department, on "Sculpture in our Cities and Homes," illustrated by lantern photographs.

*Feb. 2.*—Lecture by Mr. EDWIN HOWLAND BLASHFIELD, of New York, on "Mural Painting," illustrated by lantern photographs.

*Mar. 2.*—Lecture by Mr. FREDERICK S. LAMB, of New

York, on "Art in Relation to City Life, with Special Reference to Greater New York," illustrated by lantern photographs.

*Apr. 6.*—Lecture by Mr. WOODRUFF LEEMING, Secretary of the Department, on "The Historic Growth of Domestic Architecture," illustrated by lantern photographs.

*May 4.*—Lecture by Mr. ALFRED RAYMOND, Architect, of New York, on "Architecture in Sicily;—Ancient, Mediæval and Modern," illustrated by lantern photographs.

Besides the foregoing lectures, a course of six lectures was given by Prof. ARTHUR LINCOLN FROTHINGHAM, PH.D., of Princeton University, on "Roman Art and Architecture," with the following dates and subjects :

*Mar. 31.*—"The Progress of Architecture due to the Romans."

*Apr. 21.*—"The Relation of Roman Architecture to Roman Life."

*Apr. 28.*—"The Religious, Political and Military Life of the Romans as Illustrated in their Architecture and their Engineering."

*May 5.*—"The Architectural Records of the Social Life of Rome."

*May 12.*—"The Architecture and Decoration of the Roman Homes."

*May 19.*—"Roman Cities; their Ruins and their Reconstruction."

This course was presented under the joint auspices of the Department of Architecture and Fine Arts, and each lecture was fully illustrated by lantern photographs.

A Course of Six Illustrated Lectures was given by Prof. WILLIAM H. GOODYEAR, M.A., Curator of Fine Arts of the Institute, on "Etruscan and Early Roman Art and Architecture." This course was given with the co-operation of the Department of Archæology, under which it is fully described.

A Special Lecture was also given by the Department, with the co-operation of the Department of Fine Arts, by Prof. WALTER S. PERRY, M.A., of the Pratt Institute, entitled "Spain and the Alhambra," illustrated by lantern photographs.

A series of meetings for the discussion of subjects of special interest to architects was held during the winter on the last Saturday of each month, and on March 23d and April 26th informal subscription dinners were given to promote social intercourse among the members of the Department.

The Standing Committees of the Department on CURRENT WORK, MUSEUM AND LIBRARY, COMPETITIONS AND AWARDS, and on PUBLIC WORKS, meet to discuss subjects relating to their special lines of work.

The COMMITTEE ON MUSEUM AND LIBRARY has charge of the selection of Collections Representing the History of Architecture for the new Museum Building and makes its recommendations to the Council and Board of Trustees.

An exhibition of the COLLECTION OF ENLARGED PHOTOGRAPHS OF ANCIENT AND MÆDIEVAL ITALIAN ARCHITECTURE AND SCULPTURE, made for the Institute in 1895, by Prof. WILLIAM H. GOODYEAR, President of the Department of Archæology, with the assistance of Mr. JOHN W. MCKECKNIE, of New York, was given from June to October, inclusive, on the first floor of the Museum Building.

THE GOODYEAR COLLECTION OF ENLARGED BROMIDE PHOTOGRAPHS OF ITALIAN ARCHITECTURE comprises six hundred and twenty examples of Italian architecture and sculpture, a large number of which illustrate asymmetry in architecture. The architectural numbers are grouped under the following headings :

- I. Vertical Curves and Leaning Walls.
- II. Oblique Horizontal Lines and Optical Mystifications in Schemes of Spacing.

- III. Optical Illusions in Church Interiors.
- IV. Churches with Pavements, Showing Gradual Rise towards the Choir.
- V. Plans of Churches with Walls and Lines converging towards the Choir.
- VI. Plans of Churches with Walls Oblique to the Façade or Otherwise Deflected.
- VII. Curves in Plan.
  - A. Corresponding in Use and Position to Ancient Curves.
  - B. Comparable to Ancient Curves in Delicacy but Differing in Nature of Use.
  - C. Related to the foregoing Curves but approaching the more Prominently Deflected Plans in Group VI.
- VIII. Curves in Elevation.
- IX. Cases of Asymmetry.
- X. Mediæval Architectural Details.
  - (A) Northern Italy, (B) Central Italy, (C) Southern Italy, (D) From the Museums of Perugia, Chiusi and Volterra, (E) Naples and Pompeii, (F) Ruins of Paestum, (G) Ruins in Sicily, (H) The Curving Entablature of the Pantheon.

The Art Galleries on the first floor of the section of the new Museum Building are designed to contain collections illustrating the history of Græco-Roman Architecture and Sculpture. The largest of these galleries is 110x38 feet; the second is 42x42 feet; the remaining two are 16x40 feet. Some twenty casts of slabs from the frieze and four of the metopes of the Parthenon have recently been presented to the Institute and placed on the south wall of the largest gallery. A full account of the casts presented illustrating

Græco-Roman Architecture and Sculpture may be found under the Department of Fine Arts.

The Fourth Annual Architectural Exhibition in Brooklyn was given in the new Museum Building from March 16th to April 15th, inclusive. On the recommendation of the Department of Architecture, the Board of Trustees invited the BROOKLYN CHAPTER OF THE AMERICAN INSTITUTE OF ARCHITECTS to give the Architectural Exhibition of the Season of 1898-99, at the Museum Building.

The Department has, during the year, established a new group of Committees, having the nature and function of Sections of the Department. The officers of these Committees are not yet completed. As far as selected they are as follows :

*Committee on Commercial Architecture :*

Chairman—Mr. ABRAHAM ABRAHAM.

*Committee on Parks and Gardens :*

Chairman—

Vice-Chairman—Mr. VINCENT C. GRIFFITH.

*Committee on Better Homes :*

Chairman—

Vice-Chairman—

*Committee on Church Architecture :*

Chairman—

Vice Chairman—Miss LUCY BLISS.

*Committee on Public Decoration :*

Chairman—HON. CHARLES A. SCHIEREN.

Vice-Chairman—Mr. CHARLES M. SHEAN.

*Committee on Household Decoration :*

Chairman—

Vice-Chairman—

*Committee on Sanitation :*

Chairman—Mr. WILLIAM PAUL GERHARD

Vice-Chairman—



The plan of work of the Department is outlined in the following report to the Council of the Institute, adopted by the Executive Committee of the Department and approved by the Council :

#### REPORT TO THE COUNCIL.

At a recent meeting of the Executive Committee of this Department the relationship of the Department to the Institute and the scope of its possible influence were carefully and fully considered. The president pointed out that its present membership, as given in the Year Book, is 268. Of these, thirty-six are architects. The Department in the past has undertaken to develop the professional aspects of architecture more fully than its relationship to the general public, although the architects have always been in the minority, notwithstanding the fact that the list includes most of the representative architects living in Brooklyn. The members of the architectural profession in any city necessarily form a small proportion of its citizens, and it appears obvious from the figures just quoted that the work of the Department needs to be developed on a broader and more general basis than heretofore in order to pursue the very valuable work that necessarily belongs to it. Moreover, the professional side of architecture in Brooklyn is now so ably and so admirably represented by the Brooklyn Chapter of the American Institute of Architects that professional lines could not be developed without coming in conflict with that professional organization and thus entailing rivalry that would be helpful to no one.

It was considered advisable, therefore, to establish a new series of committees, which, while not conflicting with the present standing committees of the Department, would not only represent the more general aspects of architecture, but which would give immediate strength to the Department by greatly increasing its membership.

Architecture is an art and a science that touches every one

in many ways. It is a subject in which there is a profound popular ignorance and in which there is urgent necessity for a wide dissemination of information. The clergy are interested in its ecclesiastical side, and more than any other body of our citizens are directly and personally responsible for the erection of many of our most important buildings. The householder is interested in the construction of his dwelling; the storekeeper in the erection of his shop or office building. Women are interested not only in houses and their interior arrangements, but also in their decoration and furnishing. Many people are legitimately interested in the public aspects of our cities, in the location and arrangement of our parks and gardens, in the adornment of our streets and squares. And still others are interested in that most important of municipal problems—better houses for the people—a problem whose importance many realize and few can solve. All these are general topics in architecture and all have a bearing that this Department cannot afford to ignore.

It was proposed, therefore, while not neglecting the professional side of architecture, nor ignoring such professional problems as might come before it, that the Department should at once organize committees in these general subjects with the thought of interesting a large number of people in the work of the Department. It was further considered advisable to enlist the women members of the Institute in this work. It was voted, thereupon, to establish committees on the following subjects :

- Committee on Church Architecture.
- Committee on Better Homes (domestic architecture).
- Committee on Commercial Architecture (shops, stores, etc.).
- Committee on Public Decoration.
- Committee on Parks and Gardens.
- Committee on Household Decoration.
- Committee on Sanitation.

These committees are in each case to be composed of men and women directly interested in these special topics and recognize the value of diffusing correct ideas and information concerning them throughout the community. The first work of such committees would be to bring together such members of the Institute as are interested in these subjects and others outside who may be equally interested.

The general plan of work of the Institute for the current year being now well under way, it is not possible, perhaps, to attempt this year anything in the nature of public meetings or other exercises involving the Department or the Institute in expense; but it is proposed to hold meetings of these committees to which others might be invited, and it is presumed that the Institute will, if requested to do so, provide places for such meetings. It is hoped that by organizing this new work this year it will be possible to organize the more general work of the Department next year with a programme commensurate with the importance of this new undertaking.

At the meeting at which these matters were considered this general plan was adopted and the president was authorized to report it to the Council in order to have the sanction and co-operation of that body in this undertaking. The report is, therefore, submitted in compliance with the direction of the Executive Committee.

Respectfully,

BARR FERREE, *President.*

The following outlines have been adopted by the Executive Committee for the guidance of the above-named Committees:

#### COMMITTEE ON COMMERCIAL ARCHITECTURE.

This Committee will consider the subject of Commercial Architecture in Brooklyn, as expressed in shops, stores and

office buildings. It will deal with such matters as may, from time to time, be proposed in legislation affecting such structures. It will labor to raise the artistic and to improve the economical standards of these buildings, and it is hoped that it will exert an influence in bettering the general character of our streets throughout the business portion of our community by suggesting plans for the artistic external decoration of small shops, the improvement and decoration of signs, the decoration of windows, the making of small stores attractive, and otherwise improving the character of our business buildings.

#### COMMITTEE ON PARKS AND GARDENS.

This Committee will have for its object the study and improvement of the parks and gardens of the Borough of Brooklyn. It will labor for the increase of small parks throughout our city, both in congested and in the outlying districts. It will promote the use of our parks by the people. It will encourage the establishment of playgrounds. It will consider the house garden as a means of public decoration. It will encourage the planting of trees in our streets, the making of window gardens, and the decoration of back yards. It will seek to familiarize our people with the value of gardens in cities, and their civic utility as means of decoration, education and relaxation.

#### COMMITTEE ON BETTER HOMES.

This Committee will concern itself with all the problems of domestic architecture; not alone those relating to the private house, but especially with such matters as look to the betterment of the homes in every portion of our community. It will consider tenement-house life in Brooklyn and the betterment of tenements. It will labor for the improvement of dwelling places, for the increase of modern conveniences in dwellings; the proper construction, fitting and care of homes. It will seek, in every way, to promote

the betterment of the home, and will aid in the dissemination of useful information among people needing instruction and information on this subject.

#### COMMITTEE ON CHURCH ARCHITECTURE.

This Committee will seek to bring together the clergymen and laymen in a study of church architecture. It will discuss the economic and artistic aspects of church architecture, the decoration of churches and the requirements of worship and of people in churches. It will labor to encourage the artistic decoration of churches and to spread a knowledge of the real value of church architecture and its relationship to the artistic character of a great city.

#### COMMITTEE ON PUBLIC DECORATION.

This Committee will have for its object the study of all matters that enter into the public decoration and adornment of a city; its monuments, public buildings and civic structures; their erection, care and decoration. It will promote the interest of public art in our city and aid and encourage the proper artistic treatment of buildings, squares and public works.

#### COMMITTEE ON HOUSEHOLD DECORATION.

This Committee will consider the house in its interior, the decoration of the home; its hangings, furniture and ornaments. It will study the decorations of homes of small cost and devise plans for economical interior artistic decoration. It will study the history of interior decoration in every aspect and will labor to promote the employment of artistic objects within the home in an intelligent manner.

#### COMMITTEE ON SANITATION.

This Committee will have for its object the consideration of sanitation in its relationship to the home and to the city. It will consider the sanitary arrangements of new districts.

It will labor for the sanitary betterment of crowded districts. It will aid and advise in such sanitary reforms as may, from time to time, be deemed expedient, and it will, in every way, labor for a sanitary life among the people.

Additions to the library of the Department of Architecture have been made during the year as follows :

Presented by the publishers, the year's issue of "Architecture and Building."

Purchased by the Institute : "Atlas of the Building Laws of New York City."

#### DEPARTMENT OF ASTRONOMY.

GARRETT P. SERVISS,  
ARTHUR C. PERRY,  
WILLIAM F. SEBERT,  
B. G. WAY,

*President.*  
*Vice-President.*  
*Secretary.*  
*Librarian.*

#### *Executive Committee.*

GARRETT P. SERVISS,  
HENRY M. PARKHURST,  
WILLIAM F. SEBERT,

ARTHUR C. PERRY,  
B. G. WAY,  
JAMES P. HALL,

MISS SADIE F. MOTTS.

This Department was organized on May 10, 1888, by the Members of the American Astronomical Society residing in New York, Brooklyn, and the neighboring towns, and began its work as a Department with thirty-two members. The present membership is two hundred and sixty-nine, a gain of seven during the past year.

The public meetings of the Department were held on the first Thursday evening of each month, with an average attendance of one hundred and eighty. The proceedings at the meetings during the season have been as follows :

*Oct. 5.*—Lecture by Prof. DAVID P. TODD, PH.D., of Amherst College, on "Eclipses of the Sun, with Special

Reference to the Eclipses of 1898 and 1900," illustrated by lantern photographs.

*Dec. 27.*—Lecture by Mr. GARRETT P. SERVISS, President of the Department, on "Nebulæ, Star Clusters and Multiple Stars," illustrated by lantern photographs.

*Feb. 2.*—Lecture by Prof. JOHN K. REES, PH.D., of Columbia University, on "A Group of Little Planets Between the Orbits of Mars and Jupiter," illustrated by lantern photographs.

*Apr. 6.*—Lecture by Prof. WILLIAM R. BROOKS, PH.D., F.R.A.S., Director of the Smith Observatory, Geneva, N. Y., on "The Discovery of Comets," illustrated by lantern photographs.

*May 4.*—Lecture by Prof. HAROLD JACOBY, of Columbia University, on "The Astronomer at Work," illustrated by lantern photographs.

Besides the foregoing lectures, a special and extra lecture was given on March 3d in conjunction with the Department of Physics, by Prof. WILLIAM C. PECKHAM, M.A., of Adelphi College, on "Blizzards, Cyclones and Tornadoes," illustrated by lantern photographs.

The Section on Constellations, Miss SADIE F. MOTTS, Chairman, has held meetings on the second Thursday evening of each month, at the Museum Building on Prospect Heights, at which the following constellations were studied at the several meetings respectively:

*Oct. 13.*—Lyra, Cygnus, Sagitta, Aquila, Sagittarius, Delphinus, Capricornus.

*Nov. 10.*—Pisces, Aries, Pegasus, Aquarius, Cetus.

*Dec. 8.*—Cepheus, Cassiopeia, Andromeda, Perseus.

*Jan. 12.*—Auriga, Taurus, Eridanus, Orion, Lepus, Canis Major.

*Feb. 9.*—Gemini, Canis Minor, Monoceros, Cancer.

*Mar. 9.*—Ursa Major, Ursa Minor, Leo, Leo Minor, Hydra.

*Apr.* 13.—Bootes, Coma, Berenices, Virgo, Crater, Corvus.

*May* 11.—Draco, Corona, Borealis, Libra, Serpens, Ophiuchus, Hercules.

The Information Section, JAMES P. HALL, Chairman, meets on the third Tuesday evening of each month, for the discussion of recent discoveries, fresh theories and approaching events, like eclipses and meteoric showers. Its aim is to keep its members posted on the more important astronomical news of the day. The substance of articles from scientific periodicals, as well as original observations by members, are reported from time to time. From eight to ten different topics are presented each evening. The proceedings are so informal that anyone who is puzzled by a statement, or wishes for further details, is at liberty to ask questions.

Among the subjects discussed last season were the following: The Brightness of Venus, Changes in the Markings on Jupiter, the Canals of Mars, the New Satellite of Saturn, a Specially Interesting Asteroid (Eros), Is Mars an Asteroid? Last Autumn's Sunspot Group, Novel Photographs of Solar Spectra, Photographing the Solar Corona, Carbon in the Sun, the Gegenschein, the Moon's Temperature, Last Year's Comet Crop, Alleged Discovery of a New Star in the Andromeda Nebula, Spectrum of the Orion Nebula, Temperature in a Nebula, Nebulosities just outside the Pleiades, Photographing Nebulæ, Measuring Star Heat, Brightness of Mira (a Variable Star), Meteor Showers, Tests for Genuine Meteoric Specimens, Michelson's New Spectroscope, Newly Found Terrestrial Elements, the Paris Exhibition Telescope, and Dr. T. J. J. See's Alleged Discovery of a New Astronomical Law.

The coming season promises to be one of exceptional interest in the realm of stellar science. All members of the Department of Astronomy are at liberty to attend any meeting of the foregoing Sections, but programmes will be sent regularly in advance to those who enroll as members of the Section, and who ask the Chairman for the same.



*Members of the Information Section.*JAMES P. HALL, *Chairman.*

GARRETT P. SERVISS.

ARTHUR C. PERRY.

HENRY M. PARKHURST.

B. G. WAY.

WILLIAM F. SEBERT.

W. H. LEFFINGWELL.

E. J. OBERHOLSER.

MISS SADIE F. MOTTS.

MISS E. A. AUSTIN.

ALBERT J. BROOKS.

GEORGE C. HACKETT.

MRS. CAROLINE L. BARTON.

H. M. H. WALKER.

J. A. DEGHUÉE.

A movement to establish a People's Astronomical Observatory has been inaugurated, and subscriptions towards a fund have been made, amounting to \$950. The movement will be made public as soon as a favorable opportunity appears, when a general popular subscription will be sought.

Mr. CHARLES LEMBKE, of Union Square, New York, a Member of the Institute, presented to the Institute in the month of June, 1896, a telescope for the use of the Department of Astronomy. The telescope has an aperture of 8 inches, and a focal length of 110 inches. The object glass was made by Mr. JOHN BYRNE, and is of a very high quality. The tube of the telescope is of steel, and was turned out by Messrs. WARNER & SWAZEY, of Cleveland, Ohio. The instrument is presented on condition that a suitable observatory room and a proper pillar and equatorial mounting shall be provided in connection with the Museum Building on Prospect Heights. The clockwork connected with the equatorial mounting will cost \$150, and Mr. WILLIAM F. SEBERT, a Member of the Institute, has subscribed that sum to provide an astronomical time-piece. Plans for an observatory room have been prepared by the Executive Committee of the Department, and will be submitted to the Trustees. The instrument presented by Mr. LEMBKE will enable the Department to do most excellent work, as it is sufficiently large for most purposes in astronomical research.

The Department has a very valuable library of works on

Astronomy, numbering several hundred volumes. Additions to the Library were made during the year as follows :

From the LOWELL OBSERVATORY, Flagstaff, Arizona :

“Observations on the Planet Mars during the Opposition of 1894-5.”

From the DEPARTMENT OF THE INTERIOR :

“The Second Washington Catalogue of Stars.”

From Mr. HENRY PARKHURST, Member of the Department :

A Library of the collected numbers of nine scientific periodicals on the subject of Astronomy; thirty-four volumes of reports and publications on the subject of Astronomy from Observatories in America and Europe; from other scientific institutions eighteen pamphlets on general Astronomical subjects, and four bound volumes of Observations from the Astrophotographic Congress, the United States Naval Observatory, and the Dresden Observatory.

Mr. FRANK A. PERRET, Member of the Department, has loaned his telescope, mounted on a tripod, for the use of Members and the public at the Museum Building. It has a seven-inch glass and several objectives and attachments.

Several Members of the Department have good working telescopes permanently mounted, with which they are doing excellent work. The Institute will need, in its future development, a large and fully equipped Astronomical Observatory adjoining its Museum of Science on the Prospect Heights site. It is somewhat remarkable that the metropolitan district, with upwards of three millions of people, should not have a single large telescope.

#### DEPARTMENT OF BOTANY.

REV. GEORGE D. HULST, PH.D.,  
 THOMAS PROCTOR,  
 MRS. CAROLINE A. CREEVEY,  
 Prof. A. J. GROUT, PH.D.,

*President.*  
*Vice-President.*  
*Secretary.*  
*Curator.*

*Executive Committee.*

REV. GEORGE D. HULST, PH.D.	Prof. A. P. LOHNESS.
Mrs. CAROLINE A. CREEVEY.	OLIVER D. CLARK.
ALMON G. MERWIN.	Mrs. GEORGE W. CONKLIN.
THOMAS PROCTOR.	Miss LUCILLA E. SMITH.
JOSEPH H. HUNT, M.D.	Prof. A. J. GROUT, PH.D.
MRS. SMITH ELY JELLIFFE.	

Organized on December 13, 1888, with twenty-one members. The present membership is three hundred and forty; a gain during the last year of nine. The regular meetings of the Department, held on the third Thursday of each month, have been as follows:

*I. Oct. 20.*—Lecture by JOSEPH H. HUNT, M.D., Curator of the Herbarium of the Department, on "The Cactus Family," illustrated by lantern photographs.

*Nov. 14.*—(Monday.) Lecture by Prof. HERBERT W. CONN, PH.D., of Wesleyan University, on "The Bacteriological Methods of the Laboratories of Europe," illustrated by lantern photographs, and given in conjunction with the Department of Microscopy.

*Jan. 19.*—Lecture by SMITH ELY JELLIFFE, M.D., of New York, on "The Movements of Plants," illustrated by lantern photographs.

*Feb. 16.*—Lecture by Mr. CORNELIUS VAN BRUNT, of New York, on "Parks and Flowers of Greater New York," illustrated by 125 colored lantern photographs, and given in conjunction with the Department of Photography.

*Mar. 17.*—(Friday.) Lecture by Mrs. NATHANIEL L. BRITTON, of New York, on "Our Eastern Ferns as they Grow," illustrated by lantern photographs and by mounted specimens of ferns.

*April 20.*—Lecture by Mr. CORNELIUS VAN BRUNT, of New York, on "The Flowers and Glaciers of the Higher Selkirk Mountains," illustrated by colored lantern photographs.

Besides the foregoing lectures, a special lecture was given on February 14, by Prof. LUCIEN M. UNDERWOOD, PH.D., of Columbia University, on "Ferns and their Haunts," illustrated by lantern photographs.

II. Two Conferences were held at the Museum Building. The subjects considered were illustrated by the Herbarium of the Department and by collections from the private Herbaria of Members. The names of those who gave the opening papers with the dates and subjects considered were as follows :

*Oct. 13.*—Conference on "The Huckleberry Family," conducted by the Rev. GEORGE D. HULST, PH.D., President of the Department.

*Dec. 1.*—Conference on Mycology. Paper by Mrs. GEORGE W. CONKLIN, Member of the Executive Committee of the Department, on "My Study in Mycology during the Summer."

III. A Course of Ten Lessons on "The Mosses" was given in successive weeks, beginning October 10th, by Mrs. NATHANIEL L. BRITTON. The instruction included the methods of gathering, preserving, mounting, naming and careful studying of mosses.

IV. A Course of Six Lectures by Prof. LUCIEN M. UNDERWOOD, PH.D., of Columbia University, on "Fungi," was given on successive Tuesday evenings, and was fully illustrated by lantern photographs.

V. The SECTION ON MYCOLOGY was organized in the Spring of 1898, and held its regular meetings on the third Tuesday evening of each month. Various topics of interest to the members were discussed at these meetings, and on Saturdays, during the summer, autumn and spring, excursions were made in the vicinity of Brooklyn to gather specimens of Fungi.

Besides the course of instruction on "Fungi" given by Prof. LUCIEN M. UNDERWOOD, PH.D., of Columbia

University, a paper was read by Mrs. CAROLINE A. CREEVEY, Secretary of the Department, on November 15th, on "Poisonous and Edible Fungi," illustrated by lantern photographs.

VI. Two Institute Extension Courses were also given under the auspices of the Department.

1. A course of instruction on "The Botany of Flowering Plants," by Prof A. P. LOHNESS, M.D., and WALTER BRYAN, M.D.

This course consisted of fifteen lectures and class meetings on Friday afternoons, beginning March 10th, and ten field meetings on Saturdays, beginning April 8th.

2. A course of twelve lectures, by SMITH ELY JELLIFFE, M.D., on the "Microscopic Structure of Plants."

This course was for the benefit of those who desire to acquire the methods of study and research with the Compound Microscope, and comprised half hour lectures, followed by laboratory practice. The dates and subjects of study were as follows :

*Jan.* 6—"The Microscope. Microscopical Technic. The Cell and its Parts."

*Jan.* 13.—"Cell Contents. The Nucleus, Cytoplasm, etc."

*Jan.* 20.—"Cell Contents. Aleurone, Chlorophyl."

*Jan.* 27.—"Cell Contents. Starch Crystals."

*Feb.* 3.—"Epidermal Tissues. Trichomes."

*Feb.* 10.—"Epidermal Tissues. Primary and Secondary."

*Feb.* 17.—"Respiratory Tissues. The Leaf."

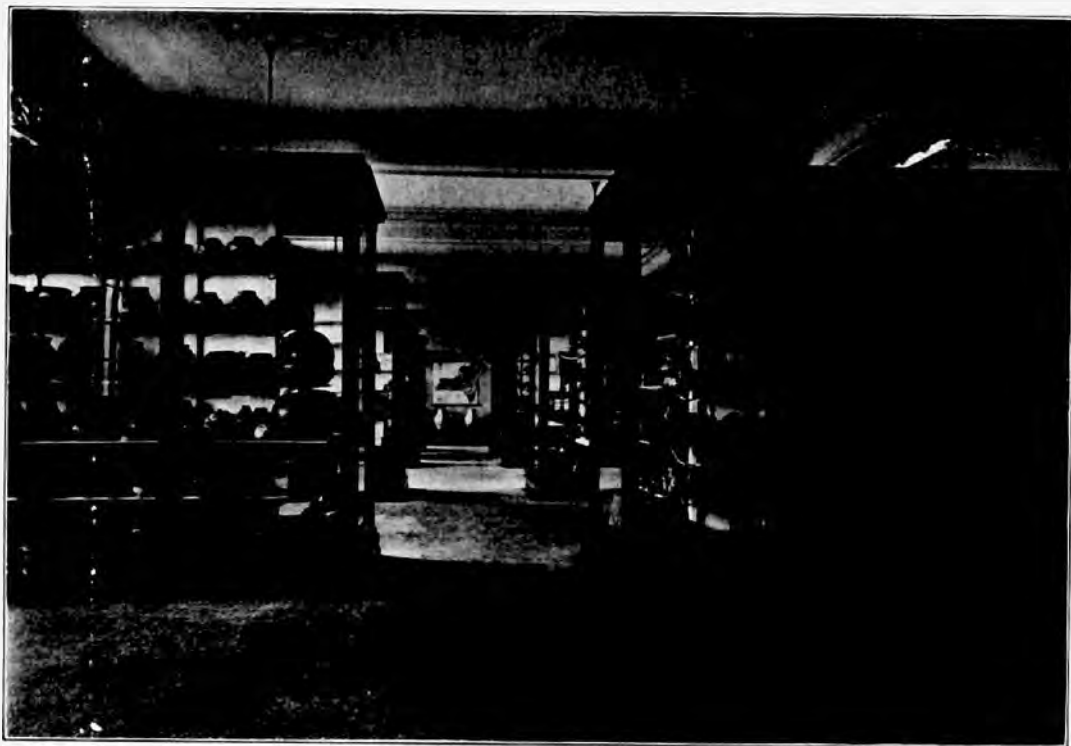
*Feb.* 24.—"Mechanical Tissues. Bast and Wood Fibres, etc."

*Mar.* 3.—"Conducting Tissues. Ducts, Tracheids, Sieve Tubes."

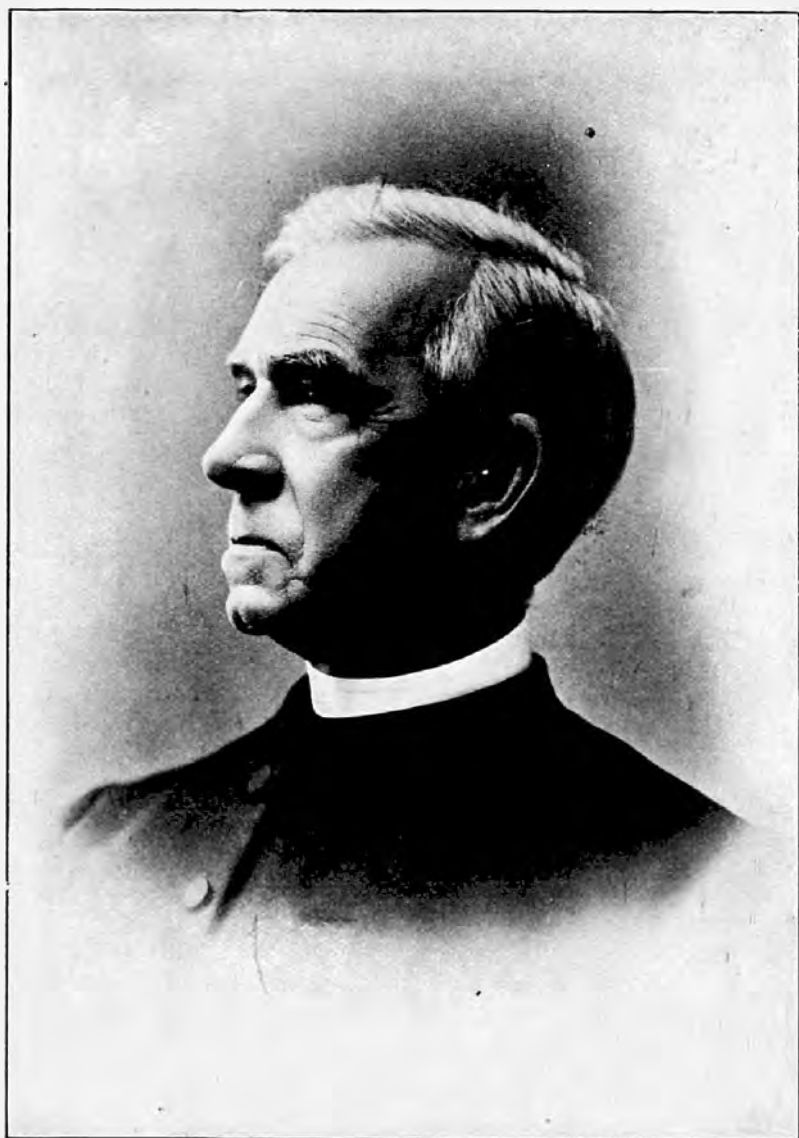
*Mar.* 10.—"Types of Fibro-Vascular Bundles."

*Mar.* 17.—"Types of Fibro-Vascular Bundles" (continued).

*Mar.* 24.—"Anatomy of Stems and Roots. General Considerations."



INTERIOR VIEW OF ONE OF THE GALLERIES DEVOTED TO SCIENTIFIC COLLECTIONS,  
MUSEUM BUILDING, SECOND FLOOR.



THE LATE REV. CHARLES HENRY HALL, D.D., LL.D.

TRUSTEE AND PRESIDENT OF THE COUNCIL, 1895-1895. FIRST PRESIDENT OF  
THE DEPARTMENT OF BOTANY.

The Herbarium of the Department comprises upwards of 36,000 well mounted specimens. It includes the large collection presented by Mr. WILLIAM CALVERLEY, the collection made by the late Rev. CHARLES H. HALL, D.D., LL.D., first President of the Department, and presented by Mrs. HALL to the Institute, and several smaller collections. The Herbarium has been transferred to new cases in the Museum Building and arranged in systematic order. A Special Committee, of which Dr. JOSEPH H. HUNT is Chairman, is charged with the care of the Herbarium and its several divisions.

The Department of Botany, in conjunction with the Torrey Botanical Club, of New York, continued its Field-day Meetings on Saturdays and Legal Holidays from May to October, inclusive, during the past Summer, as in the preceding nine seasons. Among the places visited were Rockaway Park, Valley Stream, Westbury, Woodhaven, Hempstead and Whitestone, Long Island; Point Pleasant, Woodbridge, Little Falls, Whitings, Fort Lee, Roselle, and Great Island, New Jersey; Bronx Park, Van Cortland, Caryl, Pelhamville, and Mount Vernon, New York; Oakwood, Staten Island, and Stroudsburg, Pa.

Additions to the collections of the Department have been made during the year as follows:

A set of thirty-six enlarged and colored models of edible and poisonous Fungi, and a set of forty-two models enlarged and colored, illustrating the morphology of the leading orders of flowering plants. These models were made by Dr. AUZOUX, of Paris, and purchased of Ward's Natural Science Establishment, Rochester, for study and exhibition at the Museum Building.

The Rev. GEORGE D. HULST, PH.D., President of the Department, presented 180 specimens of plants, mostly from Long Island, 52 specimens of plants from Texas, a collection of Fungi, and also the W. G. FARLOW collection of Marine



Algæ. Mr. EDGAR J. WRIGHT presented a collection of plants obtained on the Eclipse Expedition in South Africa and Ascension Island. Mrs. R. R. MEREDITH presented a large Rubber plant (*Ficus elastica*).

## DEPARTMENT OF CHEMISTRY.

WILLIAM M. HUTCHINSON, M.D.,  
 Ptof. IRVING W. FAY, PH.D.,  
 JAMES H. PARK,

*President.*  
*Vice-President.*  
*Secretary.*

### *Executive Committee.*

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 E. H. BARTLEY, M.D.  
 ROBERT G. ECCLES, M.D.  
 WALTER H. KENT, PH.D.  
 Ptof. ALBERT C. HALE, PH.D.  
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 HERBERT B. BALDWIN.  
 Ptof. HENRY W. SCHIMPF, PH.D.  
 JAMES H. PARK.

The Department of Chemistry was organized in November, 1888, with twenty-seven members. The present membership is two hundred and seven, a gain of eight during the last season. The regular meetings are held on the fourth Friday of each month, and during the past year have been as follows:

*Oct. 28.*—Lecture by Mr. HENRY T. WEED, B.Sc., Secretary of the Department, on "The Manufacture of Iron and Steel," illustrated by specimens of iron ores, samples of iron and steel, and by lantern photographs.

*Nov. 25.*—Lecture by Mr. H. F. BROWN, Chemist of the Newport U. S. Naval Torpedo Station, Newport, R. I., on "The Chemistry of Torpedo Explosives," illustrated by lantern photographs and charts.

*Dec. 23.*—Lecture by J. A. MATHEWS, PH.D., F.C.S., of Columbia University, on "Metallic Carbides and the Carbide Industries," illustrated by lantern photographs of electric furnaces, by generators, by experiments with the carbides and by examples of carbides.

*Feb. 24.*—Lecture by Prof. MARSTON T. BOGERT, PH.D., of Columbia University, on "Synthetic Perfumes," illustrated by experimental demonstrations of syntheses.

*Mar. 24.*—Lecture by Mr. DUNCAN W. TAYLOR, chemist of Messrs. Colgate & Co., on "Glycerines," illustrated by samples of various forms of glycerine, and by lantern photographs of apparatus used in preparing glycerines.

*Apr. 28.*—Lecture by Mr. HENRY T. WEED, B.Sc., of the Manual Training High School, on "The Metallurgy of Zinc," illustrated by experimental demonstrations, by specimens and by lantern photographs.

The collections of chemicals and chemical apparatus belonging to the Department have been placed, in part, in the new Museum on Prospect Heights, together with its library of upwards of five hundred volumes of works of reference.

#### DEPARTMENT OF DOMESTIC SCIENCE.

Mrs. JOHN KENDALL DUNN,	}	<i>President.</i>
Mrs. ANDREW JACOBS,		<i>Vice-Presidents.</i>
Mrs. JOHN MUIR,		
Mrs. FRANKLIN W. HOOPER,	<i>Secretary.</i>	

#### *Executive Committee.*

Mrs. JOHN KENDALL DUNN.	Mrs. A. E. PALMER.
Miss EMMA O. CONKO.	Mrs. ABBIE L. HAM.
Mrs. ANDREW JACOBS.	Mrs. C. C. KNOWLTON.
Mrs. WM. B. DAVENPORT.	Mrs. JOSEPHINE SEYMOUR.
Mrs. FRANKLIN W. HOOPER.	Miss LOUISE BOTH-HENDRIKSEN.
Miss ELIZABETH REEVES.	Mrs. JOHN MUIR.

This Department was organized on November 13, 1893, with a membership of forty-two. The present membership is one hundred and fifty-four, a gain of five during the past year. The purpose of the Department is the study of practical problems in Domestic Science. Standing Committees have been appointed on the following subjects :

1. The Sanitary and Economic Construction of Dwellings.
2. The General Principles of House Furnishing.
3. Hygiene.
4. The Composition and Value of Foods.
5. Cooking and Transformation of Foods.
6. Labor Saving Methods and Utensils.
7. Sanitation and Economy in Clothing.
8. Domestic Service.

I. The Lectures were given under the joint auspices of the Pratt Institute and the Brooklyn Institute, in the Assembly Hall of Pratt Institute, on the second Wednesday of each month, and during the past season were as follows:

*Oct. 12.*—Lecture by Mr. RUDOLPHE L. DAUS, Architect, of Brooklyn, on "The Sanitary, Economic and Artistic Construction of Dwellings," illustrated by lantern photographs.

*Nov. 10* (Thursday) —Lecture by Miss MARY E. WARE, of Boston, on "The Art of House Furnishing," illustrated by lantern photographs.

*Dec. 8* (Thursday).—Lecture by Miss LOUISE BOTH-HENDRIKSEN, on "Art in House Furnishing," illustrated by lantern photographs.

*Jan. 11.*—Lecture by Mrs. LOUISE E. HOGAN, of Philadelphia, on "The General Principles of Housekeeping."

*Feb. 8.*—Lecture by Miss ANNA BARROWS, of Boston, Editor of the *American Kitchen Magazine*, on "Labor Saving Methods and Utensils in the Household," illustrated by examples of utensils.

*Mar. 17* (Friday).—Joint meeting of the Department with the New York Household Economic Association. Lecture by Mrs. S. S. WOOLMAN, of Teachers' College, Columbia University, on "Fibres and Fabrics: Connecting them with Dress and Healthful Conditions." This lecture was held at the New York Industrial Building, Lexington avenue and Forty-third street, New York City.

II. Conferences were held on the fourth Wednesday afternoon of each month, supplementary to the lectures, as follows :

*Nov. 23.*—Conference on "The General Principles of House Furnishing." Paper by Miss LOUISE BOTH-HENDRIKSEN.

*Jan. 25.*—Conference, conducted by Mrs. JOHN KENDALL DUNN, President of the Department. Paper by Mrs. DUNN, on "The Boston School of Housekeeping." Paper by Miss CAROLINE B. WEEKS, of the Pratt Institute, on "The Work of Dr. DEWEY in Chicago."

*Feb. 15.*—Conference on "Labor Saving Methods and Utensils," conducted by Miss ELIZABETH REEVE.

*Mar. 22.*—Conference on "The Composition and Value of Foods," conducted by Mrs. MARY D. CHAMBERS, of the Pratt Institute, Chairman

*Apr. 26.*—Conference on "Domestic Service," conducted by Mrs. C. C. KNOWLTON, Chairman. Speakers: Mrs. WILLIAM G. SHAILER, of New York; Miss EMMA O. CONRO, and Mrs. JOHN KENDALL DUNN, of Brooklyn. Annual Meeting of the Department.

*May 24.*—Conference on "Sanitary and Economic Clothing," conducted by Dr. MARY D. INGRAM, Chairman.

## DEPARTMENT OF ELECTRICITY.

JAMES HAMBLET,	<i>President.</i>
WILLIAM S. BARSTOW, B.A.,	} <i>Vice-Presidents.</i>
J. P. WINTRINGHAM,	
HENRY T. WEED, B.SC.,	<i>Secretary.</i>

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PROF. SAMUEL SHELDON, PH.D.	E. H. BARTLEY, M.D.
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HENRY T. WEED, B.SC.	WILLIAM D. SARGENT.

*Committee on Electrical Measurements and Standards.*

Prof. SAMUEL SHELDON, PH.D.	Prof. WM. C. PECKHAM, M.A.
WILLIAM S. BARSTOW, B.A.	Prof. JOHN S. MCKAY, PH. D.
Prof. WILLIAM W. SHARE, PH.D.	F. V. HENSHAW.
J. P. WINTRINGHAM.	HENRY T. WEED, B.SC.

*Committee on Laboratory and Apparatus.*

J. P. WINTRINGHAM.	WILLIAM C. BURLING.
GEORGE M. HOPKINS.	Prof. SAMUEL SHELDON, PH.D.
Prof. WILLIAM C. PECKHAM, M.A.	Prof. WM. A. ANTHONY, PH.D
Prof. JOHN S. MCKAY, PH.D.	HENRY T. WEED, B.SC.

*Committee on Electric Lighting.*

WILLIAM S. BARSTOW, B.A.	ROYAL C. PEABODY.
GEORGE W. HEBARD.	EDWARD F. PECK,
ROGER S. WHITE.	DOUGLAS BURNETT.

*Committee on Telegraph and Telephone.*

WILLIAM D. SARGENT.	WILLIAM B. HALSEY.
J. C. REILLY.	J. C. F. PRIEST.
R. J. MURPHY.	

*Committee on Electro-Metallurgy.*

WILLIAM C. BURLING.	HORACE A. DWYER.
Prof. WILLIAM W. SHARE, PH D.	Prof. SAMUEL SHELDON, PH.D.
CHARLES E. F. LEWIS.	

*Committee on Applications of Electricity to Medicine and Surgery.*

E. H. BARTLEY, M.D.	NATHANIEL ROBINSON, M.D.
JOSEPH H. RAYMOND, M.D.	L. A. W. ALLEMAN, M.D.
GEORGE G. HOPKINS, M.D.	WM. M. HUTCHINSON, M.D.
J. LESTER KEEP, M.D.	PETER SCOTT, M.D.
C. K. BELDIN, M.D.	

This Department was organized on March 21, 1890, with one hundred and thirty members. The present membership is two hundred and seventy-four. The lectures and meetings of the Department, held on the first Friday evening of each month during the season, have been as follows :

*Nov. 4.*—Lecture by Mr. T. COMERFORD MARTIN, Electrical Engineer, of New York, on "Electric Power Transmission," illustrated by lantern photographs.

*Dec. 6.* (Tuesday)—Lecture by Prof. WILLIAM E. GEYER, PH.D., of Stevens Institute, on "Converters," illustrated by lantern photographs and by experimental demonstrations.

*Jan. 27.*—Lecture by Mr. ANDREW L. RIKER, of New York, on "Electric Carriages," illustrated by lantern photographs.

*Mar. 24.*—Lecture by Mr. W. J. JENKS, of New York, on "Modern Research into Lightning Phenomena and Building Protection," illustrated by lantern photographs selected from several of the finest private collections of photographs of lightning.

*April 7.*—Lecture by Mr. A. E. KENNELLY, of Philadelphia, on "Cable Telegraphy," illustrated by lantern photographs of the apparatus used in sending cablegrams.

*May 5.*—Lecture by Mr. JAMES HAMBLET, President of the Department, on "Electric Clocks and the Distribution of Standard Time," illustrated by lantern photographs.

The lecture room used by the Department has been fitted with high and low tension currents for use in the illustration of lectures. The large Hawkridge lantern has been provided with a Clark Electric Arc Light of 3,500 candle power, for use in projecting lantern photographs illustrating the lectures of the Department and of the Institute. The three Tisdell lanterns have been provided with the Beseler Electric Arc Lamps for the same purpose.

The collection of electrical apparatus belonging to the Department which has been on exhibition in the temporary Museum Building in Bedford Park, has been removed in part to the Museum Building on Prospect Heights.

#### DEPARTMENT OF ENGINEERING.

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CHARLES C. MARTIN, C.E.,  
LOUIS DUVINAGE, C.E.,

*President.*  
*Vice-President.*  
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*Executive Committee.*

O. F. NICHOLS, C.E.	Prof. GEORGE W. PLYMPTON.
CHARLES C. MARTIN, C.E.	J. FOSTER FLAGG, C.E.
HENRY W. BRINCKERHOFF, C.E.	WILLIAM J. BALDWIN.
Prof. ISAAC E. HASBROUCK, C.E.	LOUIS DUVINAGE, C.E.
JAMES HAMBLET.	ANTHONY JONES, C.E.

*Committee on Lectures.*

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JAMES HAMBLET.	J. FOSTER FLAGG, C.E.
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*Committee on Practical Work.*

O. F. NICHOLS, C.E.	BYRON A. BROOKS.
CHARLES C. MARTIN, C.E.	HENRY W. BRINCKERHOFF, C.E.
	WILLIAM J. BALDWIN, C.E.

*Committee on Membership.*

ANTHONY JONES.	LOUIS DUVINAGE, C.E.
JOHN MCNAMEE, C.E.	GEORGE INGRAM, C.E.
	BYRON A. BROOKS.

The organization of the Department of Engineering was effected on March 12, 1889, with thirty-six members. The present membership is one hundred and fifty-eight. The regular meetings are held on the third Friday of each month, and during the past season have been as follows :

*Sept. 30.*—Lecture by Mr. HENRY W. RAYMOND, of Germantown, Pa., on "The Fighting Ship of Yesterday and To-day," given in co-operation with the Department of Photography, and illustrated by lantern photographs which included (1) pictures of every ship in the United States Navy, (2) views of Ports and Countries which were the scene of action during the recent Spanish War, and (3) portraits of our Naval Commandants.

*Nov. 18.*—Lecture by SPENCER MILLER, M.E., of New York, on "Cable Ways as Employed in Construction Work and Excavation," illustrated by lantern photographs.

*Dec. 16.*—Lecture by Mr. RICHARD S. BUCK, C.E., Engineer

of the Niagara Falls and Clifton Bridge Company, Niagara, N. Y., on "The Niagara Bridges," illustrated by lantern photographs.

*Jan. 20.*—Lecture by Mr. CHARLES M. JACOBS, C. E., of New York and London, on "Underground Rapid Transit and the Proposed Long Island Railroad Tunnel between Atlantic Avenue and Lower Manhattan," illustrated by lantern photographs.

*Feb. 17.*—Lecture by Mr. ARTHUR S. TUTTLE, Assistant Engineer, Department of Water Supply, Brooklyn, on "The Development of Underground Water Supplies and Driven Wells," illustrated by lantern photographs.

*Apr. 21.*—Lecture by Mr. O. F. NICHOLS, C. E., Assistant Engineer of the New East River Bridge, on "The Engineering Features of Public Works in the Tropics," illustrated by lantern photographs.

*May 19.*—Lecture by Mr. WILLIAM H. TOLMAN, of New York, on "Social Engineering," illustrated by one hundred lantern photographs taken from industrial establishments in Europe and America.

Besides the foregoing lectures given at the regular meetings of the Department, two special and extra lectures were given as follows:

*Dec. 2.*—Lecture by Prof. JOHN A. BRASHEAR, C. E., S. D., of the Allegheny Observatory, Allegheny, Pa., on "The Range Finder on Men-of-War," illustrated by diagrams and by lantern photographs.

*Jan. 7.*—Lecture by Mr. B. H. BLOOD, Superintendent of the Tubular Dispatch Company, New York City, on "The Rapid Transportation of First-Class Mail Matter from City to City by Pneumatic Tubes," illustrated by lantern photographs.

A Technical Section, comprising practicing engineers and instructors of engineering, will be organized during the next season. A Special Committee, consisting of Messrs. O. F.



NICHOLS, C. E., and HENRY W. BRINCKERHOFF, C. E., has been appointed to organize the Section. The purposes of the new Section will be the discussion of subjects of special interest to engineers, and social intercourse.

The Library of the Department, heretofore at the Bedford Park Building, has been removed to the new Museum Building during the season.

Mrs. ANNA K. THAYER presented to the Department the entire library of her brother, the late J. C. KINGSLEY, consisting of three hundred and thirty bound volumes of the standard English and German authors on Civil Engineering, Mining Engineering and Trigonometrics, with twenty three French, German, and English pamphlets on the same subjects.

#### DEPARTMENT OF ENTOMOLOGY.

PRIN. LYMAN A. BEST, B. A.,	<i>President.</i>
RICHARD F. PEARSALL,	<i>Vice-President.</i>
ARCHIBALD C. WEEKS,	<i>Secretary.</i>
EDWARD L. GRAEF,	<i>Curator.</i>
JACOB DOLL,	} <i>Assistant Curators.</i>
HERMAN MEESKE,	
PRIN. FRANK A. WILLARD,	<i>Librarian.</i>

#### *Executive Committee.*

LYMAN A. BEST, B. A.	EDWARD L. GRAEF.
JOHN AKHURST.	RICHARD F. PEARSALL.
ARCHIBALD C. WEEKS.	REV. GEORGE D. HULST, PH. D.
PRIN. FRANK L. GREENE.	PRIN. FRANK A. WILLARD.
JACOB DOLL.	I. N. HOAGLAND.

#### *Committee on Lectures, Study and Field Days.*

PRIN. LYMAN A. BEST, B. A.	DR. J. L. ZABRISKIE.
PROF. FRANKLIN W. HOOPER.	PROF. JOHN B. SMITH.
	OLIVER D. CLARK.

#### *Committee on Collections.*

EDWARD L. GRAEF.	PRIN. JOHN MICKLEBOROUGH, PH. D.
JOHN AKHURST.	JACOB DOLL.
	ARCHIBALD C. WEEKS.

*Committee on Library.*

PRIN. FRANK A. WILLARD.

PRIN. FRANK L. GREENE.

MISS LUCILLA E. SMITH.

MISS CLARA C. CALKINS.

*Committee on Membership.*

ARCHIBALD C. WERKS.

MISS ANNIE L. HARRIS.

RICHARD F. PEARSALL.

MISS SADIE MOTTS.

OLIVER D. CLARK.

Organized by the Brooklyn Entomological Society in September, 1888, with thirty five members. Reorganized April 29, 1895, with a membership of fifty-two. The present membership is ninety-nine, an increase of forty-three during the past year.

The regular meetings are held on the fourth Thursday evening of each month, and during the past season have been as follows :

*Oct. 27.*—Lecture by Prof. JOHN B. SMITH, PH.D., of Rutgers College, on "The Life History of the Digger Bee," illustrated by lantern photographs.

*Jan. 26.*—Lecture by Prof. LELAND O. HOWARD, Chief of the Division of Entomology, Department of Agriculture, Washington, D. C., on "Insects Injurious and Beneficial to Man," illustrated by lantern photographs.

*Feb. 23.*—Lecture by Prof. FRANK A. WILLARD, on "Useful Hymenoptera," illustrated by lantern photographs.

*Apr. 27.*—Annual Meeting for the election of officers and the planning of work for the season of 1899-1900.

Besides the lectures noted above, a series of five lectures on Entomology was given by Prin. LYMAN A. BEST, to a class limited to thirty-five members. The dates and subjects were as follows :

*Apr. 13.*—"Pond Life."

*Apr. 20.*—"Brook and River Life."

*Apr. 27.*—"Forest Life."

*May 4.*—"Garden and Orchard Life."

*May 11.*—"Roadside Life."

These lectures were fully illustrated, and material for study was furnished to those who attended the course.

The Fifth Annual Entomological Exhibition was given by the Department in the Museum Building from Saturday, October 7th, until Monday, October 31st, inclusive. The Exhibition comprised portions of the BERTHOLD NEUMOEGEN COLLECTION OF LEPIDOPTERA loaned by Mrs. BERTHOLD NEUMOGEN, of Manhattan, portions of the collections of Mr. EDWARD L. GRAEF, Curator of the collections of the Department, and portions of the collection of Mr. JACOB DOLL, Assistant Curator of the collections of the Department. The Exhibition was opened by a reception tendered by the Department to the members and friends of the Institute on Saturday, October 7th.

The Entomological Collections have received very large additions during the past few years. In 1890 Mr. WILLIAM CALVERLEY presented to the Institute the entire collection of Lepidoptera, Coleoptera, Hymenoptera, and Neuroptera made by his father, the late STEPHEN CALVERLEY, during the years 1832-1872. The collection comprises many rare forms, is in a good state of preservation, and is carefully labeled. Catalogues accompanying the collection give the location, time of collection, and the habitat of most of the insects. The number of insects labeled in the collection is estimated to be twenty thousand.

In the autumn of 1898 Mr. FRANK S. JONES, a Member of the Board of Trustees and a Member of the Committee on Museum of Science, of the Institute, presented Ten Thousand dollars (\$10,000.00) to the corporation to be used in the purchase of the BERTHOLD NEUMOEGEN COLLECTION OF LEPIDOPTERA. The purchase of the Neumoegen Collection was effected in December, and thus, through the generosity of Mr. JONES, the Institute became the possessor of one of the largest and most valuable collections of Lepidoptera in the world—a collection which contains more type specimens of Lepidoptera than any other in the United States.

The collection is beautifully mounted, labeled, classified and arranged in cabinet drawers and contains, approximately, forty-five thousand specimens, eleven thousand species, and eleven hundred type specimens.

The NEUMOEGEN COLLECTION was made by Mr. BERTHOLD NEUMOEGEN during a period of twenty years, with the assistance of Mr. JACOB DOLL who acted as Curator of the collection during the period of its formation, 1875 to 1895.

Mr. EDWARD L. GRAEF, a Life Member of the Institute, ex-President of the Department of Entomology, and now Curator of the Entomological Collections of the Institute, offered two years ago to present his entire collection of Lepidoptera to the Institute on condition that the BERTHOLD NEUMOEGEN COLLECTION should be purchased by the Institute for its Museum. As soon as the Trustees had acquired the title to the NEUMOEGEN COLLECTION, Mr. GRAEF presented his collection, comprising, approximately, fifteen thousand specimens of Lepidoptera, including about one hundred type forms and many rare specimens.

Mr. JACOB DOLL, Assistant Curator of the Entomological Collections of the Institute, has very generously loaned for exhibition at the Museum Building his own private collection of Lepidoptera, comprising some thirty thousand specimens and many rare species. It is desirable that this collection should, if possible, be purchased by the Institute, in order that the collections in Lepidoptera may be as complete as they can be made from collections in this country, and also to enable the Institute, by exchanges with foreign collectors, to enlarge the number of its species and varieties.

Mr. P. ELBERT NOSTRAND, a Life Member of the Institute, presented to the Institute in the Autumn of 1898, his collection of Lepidoptera, numbering some three thousand specimens, together with a cabinet containing the same.

The Institute has caused to be constructed four large Entomological cabinets to contain the collections of Lepidoptera now owned by it. Each of these cabinets is con-

structed to contain two hundred and ten cabinet drawers, 22 x 28 inches, and 3 inches deep. The BERTHOLD NEUMOEGEN COLLECTION was contained in four hundred and eighty-four cabinet drawers of the size mentioned. Four hundred and twenty of the BERTHOLD NEUMOEGEN cabinet drawers have been placed in two of the large cabinets. The third large cabinet has recently been supplied with two hundred and ten new cabinet drawers designed to contain the EDWARD L. GRAEF COLLECTION. One hundred and fifty-six new cabinet drawers have been made for the fourth large cabinet case, and these, together with the fifty-four remaining BERTHOLD NEUMOEGEN cabinet drawers, have been placed in the fourth large cabinet case.

Each of the cabinet drawers built for the Entomological collections is air-tight. The bottoms of the drawers are covered with the best quality of cork, all the drawers are lined with heavy enameled paper, and are enclosed in the large cabinet cases.

In March, 1899, the Institute had constructed two Entomological cabinet tables or desks, each twelve feet in length by four feet in width and thirty inches in height. Each of the tables is provided with twelve air-tight compartments, fitted to certain cabinet drawers, and one hundred of the cabinet drawers, presented to the Museum by Mr. GRAEF, have been placed in these table cases. The drawers contained in the cabinet tables will be used for storing the working collections of the Department. The cost of the two cabinet tables was six hundred dollars.

The Department of Entomology has been provided with a good supply of Entomological pins, culture tubes, spreading boards and other materials necessary for the work of the officers and members of the Department who are specialists in Entomology.

Mr. JACOB DOLL, the Assistant Curator in Entomology, on the recommendation of the Department of Entomology, has been appointed by the Trustees as Custodian of the

ENTOMOLOGICAL COLLECTIONS of the Institute, and after July 1st, 1899, will give his entire time to the care, the preservation, arrangement, and the increase of the collections. Mr. DOLL will work under the authority of the Board of Trustees and in accordance with the recommendations made from time to time by the Department of Entomology.

Mr. EDWARD L. GRAEF presented to the Institute, with his collection of Lepidoptera, four cabinet cases with drawers containing the collection. These cases were valued by the Trustees at five hundred dollars. By the authority of the Board of Trustees Mr. Graef nominated fifty young men and women in Brooklyn to be members of the Institute for one year. The young men and young women were selected from the higher institutions of learning in Brooklyn. The Packer Collegiate Institute, the Polytechnic Institute, the Adelphi College, the Girls' High School, the Boys' High School, the Manual Training High School, the Erasmus Hall High School, and the Berkeley Institute were each invited to nominate five students who fulfilled the following conditions: (1) That the student should be pursuing a four years' course of instruction in the highest Department of the school, and should have completed at least one-half of the course; (2) that the student should have a high standing in the class to which he belonged, and (3) that the student should be specially interested in the Natural Sciences. Each of the schools mentioned nominated five students, making altogether forty from the eight schools. The remaining ten members were selected by Mr. GRAEF from among those whom he believed would make good use of a membership in the Institute.

Additions have been made to the Library of the Department of Entomology through the gift of Mr. EDWARD L. GRAEF, ninety-seven bound volumes of the best English and German authorities on Entomology; sixteen pamphlets on Entomological subjects issued by the Department of Agriculture; reports of four annual meetings of the Association of

Economic Entomologists ; three reports of the Entomological Commission ; ten reports from the American Entomological Society ; four reports of the American Association for the advancement of Science ; twenty-five reports of the Entomological Society of Philadelphia ; two reports from the *Entomological News*, and Proceedings of the Entomological Society of the Academy of Natural Science of Philadelphia ; seventeen reports from the Smithsonian Institution ; five reports from the Entomological Survey ; annals of the Lyceum of Natural History of New York ; annual report of the New York State Museum of Natural History ; proceedings of the New York Horticultural Society ; report of the New York State Agricultural Society ; three reports of the State Entomologist ; reports of the New Jersey Agricultural College and Cornell University Experiment Stations ; two reports from the Washington Entomological Society ; two reports of the Essex Institute ; two reports of the Buffalo Society of Natural Science ; four reports of the Boston School of Natural History ; sixty miscellaneous pamphlets on entomological subjects, in both English and German, and from the State Entomologist, reports for the year 1898-9.

The Library on Entomology comprises most of the standard works on the subject, together with nearly complete series of the publications of Entomological Societies.

The use of the Entomological Collections and Library is subject to rules and regulations adopted by the Trustees and Council of the Institute on the recommendation of the Department of Entomology. Portions of the Collections are kept on public exhibition at the Museum Building. For access to collections not on exhibition application should be made to Mr. JACOB DOLL, Curator, at the Museum.

#### DEPARTMENT OF FINE ARTS.

The establishment of this Department was authorized by the Council and the Board of Trustees on February 11, 1888.

The membership in June, 1889, was one hundred and thirty-two. The present membership is eight hundred and fifty-three, a gain of fifty during the past season. No organization of the Department has as yet been effected. The General Committee on Lectures, appointed by the Council, has conducted eight courses of lectures during the past season for the benefit of the Members of the Department and of the Institute.

I. The First Course was given by Mr. FREDERIC HOVEY ALLEN, of Boston, on "Contemporary Painting in Europe and America." The lectures were fully illustrated by lantern photographs, including reproductions of many of the works of the leading contemporary artists of Europe and America. They were given on Friday afternoons, on the following dates and subjects:

*Oct.* 7.—"Contemporary Russian Art."

*Oct.* 14.—"Contemporary Art in Italy."

*Oct.* 21.—"Contemporary Art in France."

*Oct.* 28.—"Contemporary Art in England."

*Nov.* 4.—"Contemporary Art in America."

*Nov.* 12.—(Saturday.) "Contemporary Art in America"  
(continued).

II. The Second Course was given by Prof. WILLIAM H. GOODYEAR, M.A., on "Representative Italian Cities." The lectures were fully illustrated by lantern photographs and were delivered in the Ross Street Presbyterian Church, in the Williamsburgh District of the city. The course was given with the co-operation of the Department of Geography, with dates and subjects as follows:

*Dec.* 12.—"The Ruins of Pompeii, their Burial and their Excavation."

*Dec.* 19.—"Picturesque and Panoramic Rome; the Modern City and the Old Republic."

*Jan.* 2.—"Picturesque and Panoramic Rome (continued); the Modern City and Ancient Empire."



*Jan. 9.*—Picturesque and Panoramic Venice ; the Modern, the Mediæval and the Renaissance City."

*Jan. 16.*—" Picturesque and Panoramic Pisa ; the Modern and the Mediæval City."

*Jan. 23.*—" The Church of Saint Peter and the Palace of the Vatican."

III. The Third Course was by Prof. WALTER S. PERRY, M.A., Director of Fine Arts at the Pratt Institute, on "Painting." This course was fully illustrated and given on Tuesday afternoons, with dates and subjects as follows :

*Jan. 3.*—" Italian Painting."

*Jan. 10.*—" Italian Painting during the Renaissance."

*Jan. 17.*—" Italian Painting from the Fifteenth to the Seventeenth Century."

*Jan. 24.*—" Early French Painting."

*Jan. 31.*—" Modern French Painting."

*Feb. 7.*—" Flemish and Dutch Painting."

IV. The Fourth Course was by Prof. WILLIAM H. GOOD-YEAR, M.A., Curator of Fine Arts of the Institute, on "The History and Geography of the Fine Arts." This course was illustrated by lantern photographs and given in co-operation with the Department of Geography, at the Museum Building, on Saturday afternoons. The dates and subjects were as follows :

*Feb. 18.*—" Chaldea and Assyria."

*Feb. 25.*—" The Ancient Palaces of Assyria."

*Mar. 4.*—" The Assyrian Civilization."

*Mar. 11.*—" Modern Syria."

*Mar. 18.*—" Jerusalem and Baalbek,"

*Mar. 25.*—" The Monumental Relics of Phœnicia."

*April 1.*—" Phœnician Art."

*April 8.*—" Modern Cairo and the Arabs in Egypt."

*April 15.*—" The Tourist on the Nile."

*April 22.*—" The Pyramids of Geezeh and their Builders."

*April 29.*—"The Tombs of Sakkara and the Romance of Mariette."

*May 6.*—"A Journey from the Second Nile Cataract to Philæ and Thebes."

*May 20.*—"The Temple Ruins of Karnak, Luxor and Medinet Habou."

*May 27.*—"Ancient Egyptian Paintings in their Original Colors."

*June 3.*—"Ancient Egyptian Paintings in their Original Colors" (continued.)

V. The Fifth Course was by Prof. ARTHUR L. FROTHINGHAM, PH.D., of Princeton University, on "Roman Art and Architecture." The lectures were fully illustrated by lantern photographs, and given at the Art Building, with the co-operation of the Department of Architecture, under which they are fully described.

VI. The Sixth Course was by Miss LOUISE BOTH-HENDRIKSEN, on "The English Painters." A full description of this course is given under the Department of Painting.

VII. The Seventh Course was by Prof. WILLIAM H. GOOD YEAR, M.A., Curator of Fine Arts of the Institute. This course was illustrated by beautiful colored lantern photographs, and was given in conjunction with the Department of Geography, on Friday afternoons, at the Museum Building.

The dates and subjects were as follows :

*May 5.*—"The Tourist in Syria."

*May 19.*—"Jerusalem of To-Day and Yesterday."

*May 26.*—"Tyre and Sidon and the Ruins of Baalbek."

*June 2.*—"Egyptian Temples."

VIII. The Eighth Course was by Mr. W. M. R. FRENCH, Director of the Chicago Art Institute, on "The Qualities upon which a Painting Depends as a Work of Art." The lectures were illustrated by drawings on canvass and by

lantern photographs, and were given on the following dates and subjects :

*Feb.* 14.—“The Value of a Line.”

*Feb.* 21.—“Composition, Light and Shade.”

*Feb.* 28.—“Color and Expression.”

Besides the foregoing courses, two conferences were held on February 10th and 11th, under the joint auspices of the Section on Art Education of the Institute, and the New York State Art Teachers' Association, and the following single lectures were delivered.

*Oct.* 20.—Lecture by Mr. J. PERRY WORDEN, of New York, on “The Delft Ware ; its Origin, History and Manufacture,” illustrated by lantern photographs, from paintings by Dutch artists, and by choice specimens of Delft Ware.

*Dec.* 21.—Lecture by the Rev. WILLIAM H. INGERSOLL, on “Ideality in Sacred Art,” illustrated by lantern photographs.

*Feb.* 10.—Lecture by Mr. WILLIAM ORDWAY PARTRIDGE, Sculptor, on “The Art of the Street.”

Under the joint auspices of the Department of Fine Arts and the Section on Art Education of the Department of Pedagogy, the Third Annual Exhibition of Works of Art Suitable for the Decoration of School Rooms, was held in the Art Building from November 2d to November 16th, inclusive. A full account of this exhibition is given under the Section on Art Education of the Department of Pedagogy.

An Exhibition of Water Colors by Miss EMELENE A. DUNN was held from April 10th until April 24th, under the auspices of the Departments of Fine Arts and Pedagogy, in the Gallery of the Art Building.

#### THE EVENING ART SCHOOL.

For the benefit of those Art Students who desire to pursue Courses of Art Instruction in evening classes, the EVENING ART SCHOOL has been established in conjunction with the

Brooklyn Art Association, and the following courses have been conducted during the past four years :

I. Course in Free Hand Drawing from Models and from the Antique, for beginners.

II. Advanced Course in Drawing from the Antique.

III. Men's Life Class, with Drawing and Painting from Life.

IV. Costume and Portrait Class with Drawing and Painting.

The Instruction in these classes was given by Mr. JOSEPH H. BOSRON, of the Brooklyn Art School, in the Art Building, 174 Montague street. The tuition for Courses I. and II. was \$6 per quarter, and for Courses III. and IV.; \$12 per quarter. The school opens on the first Monday in October, and closes on the last Friday in May.

For further information concerning the Evening Art Classes see THE BROOKLYN ART SCHOOL under the Department of Painting.

#### GIFTS TO FINE ARTS DEPARTMENT OF THE MUSEUM COLLECTION.

The Department has received contributions during the year as follows :

From Mr. ABRAHAM ABRAHAM, Member of the Board of Trustees, the sum of \$500, to be expended in Lectures on the Fine Arts during the year 1899-1900.

The Department has received contributions for the purchase of casts from the antique during the year as follows :

From THE CIVITAS CLUB.....	\$26 00
“ Miss CHRISTINA ROUNDS.....	45 00
“ Mr. GEORGE C. BRACKETT.....	189 92
“ Mr. GEORGE F. PEABODY.....	120 00
“ Miss ELLEN B. GRISWOLD, Treasurer	100 00
Total for the purchase of casts...	<u>\$480 92</u>

Among the most valuable, instructive, and noteworthy donations received by the Institute is the Lunette Relief of

“THE RESURRECTION OF CHRIST,”

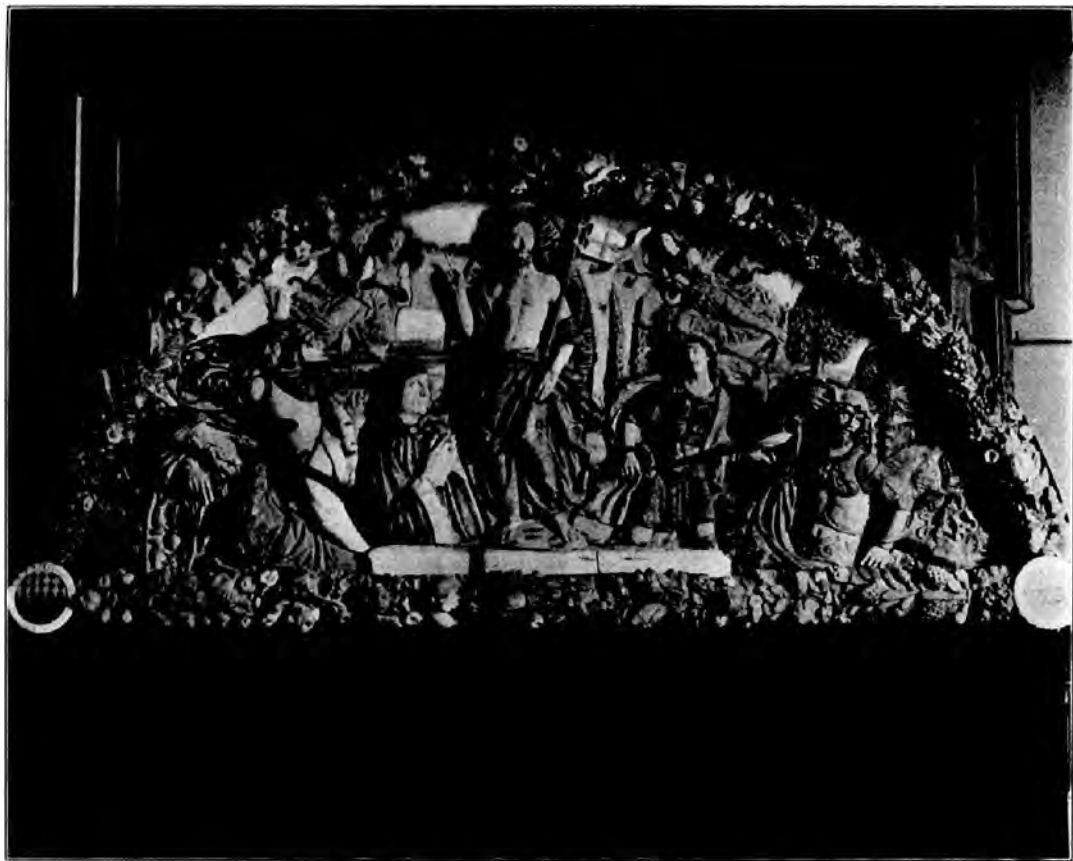
by GIOVANNI DELLA ROBBIA, in enameled terra-cotta, date about A. D. 1520, presented by Mr. A. AUGUSTUS HEALY, President of the Institute, in October, 1898.

During Mr. HEALY's customary annual visit to Florence, in the summer of 1898, he was advised of the possibility of purchasing a relief by GIOVANNI DELLA ROBBIA at the Villa Antinori, near that city.

Since the year 1520 this relief had been in the possession of the ANTINORI family, for whom it was originally made in that year, as one of the decorations of their villa. The purchase was successfully achieved by Mr. HEALY, and the great difficulty was also overcome of procuring the consent of the Italian government to the shipment away from Italy.

The relief, which is of enameled terra-cotta, and in dimensions about eleven feet wide by four feet high, represents the Resurrection of Christ. It was originally placed above one of the entrance doors of the villa, and corresponds in shape to the semicircular pediment whose space it once filled. The name lunette is commonly applied to such a curvilinear pediment space, and is consequently applied to the relief itself.

The artist, GIOVANNI DELLA ROBBIA, was a member of the famous family to which the manufacture of such enameled terra-cotta reliefs was almost wholly confined. That their art is now a lost one is better known to the expert than it is to the general public. This is, of course, one of the reasons for prizing the gift of Mr. HEALY. No similar reliefs have been made since the sixteenth century, and the artist of this “Resurrection” was the last to practice this work in perfection. On the other hand, none of these works are earlier than the beginning of the fifteenth century. In fact, the



LUNETTE BY GIOVANNI DELLA ROBBIA (ABOUT 1520). PRESENTED BY MR. A. AUGUSTUS HEALY,  
PRESIDENT OF THE BOARD OF TRUSTEES.



CENTRAL PORTION OF THE LUNETTE ENTITLED "THE RESURRECTION,"  
BY GIOVANNI DELLA ROBBIAS. PRESENTED BY  
MR. A. AUGUSTUS HEALY.

year 1443 marks the earliest of the ROBBIA reliefs by LUCA, and as GIOVANNI died in 1529, it follows that the space of less than ninety years will cover all the extant works of importance.

That this time of activity in the given art was the greatest period of Italian art as a whole, is also a matter of importance, as it determines the style and quality of design and composition.

The Robbia reliefs are thus not only unique in their material, but also in their period and style. Finally, the number of important examples of this art which have found their way to Northern Europe is quite limited, and in Italy itself they are wholly confined to the territory of Tuscany. In the United States there is only one other ROBBIA relief, of large size, the one which was presented to the Metropolitan Museum some years ago by Mr. HENRY G. MARQUAND.

The subject matter of these reliefs is almost uniformly religious. They were generally altar-pieces, and when they were designed for exterior architectural decoration, and as architectural adjuncts in the way of medallions, lunettes, ceiling ornaments, and the like, the subjects were still dominantly those of Christian art. Aside from the collection of the Bargello Museum, at Florence, and the rare examples in Northern European Museums, the extant specimens of ROBBIA enamel must still be studied in the churches and on the buildings for which they were designed. Many of the most interesting and most valuable ones are in rarely visited and relatively inaccessible parts of Tuscany.

The founder of the art of enameled terra-cotta relief was LUCA DELLA ROBBIA, of Florence (1400-1482), but this art is simply an extension of that which had been used in glazing tiles and pottery since the days of the Chaldeans, of the ancient Persians, and of the Pyramid builders of Egypt.

It was through the Saracenic continuers of the old Persian art that enameled tiles and other enameled pottery made their appearance in Spain and in the Balearic Islands,



and thus found their way into Italy. The derivation of the Italian word "majolica," from the Balearic Majorca, is a reminder of the mediæval history of this art.

Technically speaking, enamel is simply a vitreous glaze, made opaque by oxide of tin, and mixed with various coloring substances. None the less, the coloring and baking of sections of terra-cotta in the dimensions and forms requisite for the making of reliefs of the human figure has only been practiced once in history, and that during the period, and mainly by the family, which has been named. No important work of this class has ever been done outside of the ROBBIA family. Scarcely a single work could be mentioned which did not emanate from the workshop of the ROBBIAS, in which some scholars and assistants were naturally employed who did not bear the family name.

LUCA, whose name has just been mentioned as that of the founder of this art, did not limit himself to it. As a sculptor in other directions, he ranks beside, and next to, his contemporaries, Ghiberti and Donatello. In marble, for instance, he did the famous organ-loft reliefs of the Florence Campanile. All of these works, and many others, are shown in the photographs which are now associated with Mr. HEALY'S gift in the Brooklyn Museum. LUCA was followed by his nephew, ANDREA DELLA ROBBIA, 1435-1525, whose work was confined to the enameled terra-cotta reliefs, and in these he was not inferior to LUCA. GIOVANNI DELLA ROBBIA, 1469-1527, whose lunette from the Antinori Villa is now in Brooklyn, was the son of ANDREA. Many of his works are recognized as equal to those of his father; and ANDREA'S name has been occasionally attached to things which are now proven to have been done by his son. This holds, for instance, of his best work, the Lavabo, or decorative basin, in the Sacristy of Santa Maria Novella, at Florence. GIOVANNI'S method enlarged and accentuated the use of polychromy. Although it is a common mistake to mention LUCA as having confined himself to white and blue,

or violet, enamel, it is undoubtedly true that GIOVANNI made a much wider use of color than his relatives and predecessors.

The Brooklyn relief shows the following colors: White, blue, green, yellow, mauve, and light and dark brown. This relief is, in fact, wholly pictorial in quality and is a translation into colored terra-cotta, of the traditional subject of the Resurrection.

At the base of the relief the upper portion of the tomb is visible. Above this rises a dignified and commanding figure of the SAVIOUR. At his right kneels the Marquis ANTINORI, according to the traditional Italian method of introducing the donor of a votive offering into its subject matter. On either side are figures of the roused and frightened Roman soldiers, while another soldier is still sleeping, and above are two attendant angels.

The lunette is framed in a richly designed garland of flowers, fruit and foliage, on which small animals and birds are also represented. This border is highly characteristic of the work of GIOVANNI. The arms of the ANTINORI family are represented at its two outer angles.

The present location of GIOVANNI'S relief in the Brooklyn Museum is above the entrance door to the Trustees' room, on the first floor. It is framed in a rich setting of terra-cotta colored plush, and a broad curtain of the same material, which hangs directly beneath it, serves to give the proper contrast and relief to the strong coloring of the lunette.

On either side of the doorway an exhibit of seventy photographs of works of the ROBBIA school is arranged in chronological order, so as to show all the important works of LUCA, of ANDREA, and of GIOVANNI. This exhibit is the loan of Mr. ALBERT A. HOPKINS, who is about to replace it by a gift to the Museum of a complete photographic exhibit of the works of the ROBBIA School.

## THE COLLECTION OF CASTS.

Additions to the Collections of Casts have been received during the year as follows :

CASTS.	PRESENTED BY
Orestes and Electra, - - -	MR. GEORGE C. BRACKETT.
Rhyton, - - - - -	" " " "
Candelabrum, - - - -	" " " "
Minerva, - - - - -	MISS ELLEN BRACKETT.
Phocion, - - - - -	MR. CARLL H. DE SILVER.
Spinario, - - - - -	" " " " "
The Borghese Vase, - -	THE KOSMOS CLUB.
The Varvakeion Statuette,	MR. BENJAMIN T. FROTHING- HAM.
Archaic Artemis, - -	} Mrs. GUY DU VAL and Miss FAIRBANKS.
Equestrian Statue of George Washington, - - the Heirs of Mr. JOHN H. PRENTICE.	

## THE COLLECTION OF BRONZES.

To the Collection of Bronzes were added in the summer of 1898 the following statuettes :

SUBJECT.	PRESENTED BY
Venus Aphrodite, - - -	MR. JAMES A. H. BELL.
Cupid and Psyche (Modern), - -	" " " "
Cupid and Psyche (Copy of Antique),	" " " "
Mandolin Player, - - - -	" " " "
Evening, - - - - -	" " " "
Morning, - - - - -	" " " "
Venus and Cupid, - - - -	" " " "

## THE GENERAL COLLECTIONS IN FINE ARTS.

Additions to the general collections of the Department have been received as follows :

From the U. S. GRANT POST, Flatbush avenue and Nevins street: A large Japanese embroidery, in heavy gilt applique



SCULPTURE ENTITLED "THE REBEL ANGELS," BY SIG. SALVATORE ALBANO,  
FLORENCE, 1893. PRESENTED BY MR. A. AUGUSTUS HEALY,  
PRESIDENT OF THE BOARD OF TRUSTEES.

the first floor of the Museum Building, the following eighty-one Etchings and Engravings :

“Country Neighbors,” by BUHOT ; two Landscapes (presentation proofs), by C. FONCE ; “Westminster Abbey,” by GAUTIER ; “Challow Farm,” “A Water Meadow,” “Lady Reading,” “A Lancashire River,” “Dundrum River,” “Early Morning, Richmond Park,” “Kensington Gardens,” “Kensington Gardens” (the smaller plate), “Mytton Hall,” “Nine Barrow Downs,” “Old Chelsea Church,” “Purfleet,” “Shere Millpond,” “Sunset in Ireland,” “Sunset on the Thames,” “The Agamemnon,” “Whistler’s House,” “Old Chelsea,” “Windmill Hill No. 1,” “Windmill Hill No. 2,” “Windsor Castle” and “The Village Ford,” by SEYMOUR HADEN ; “Le Sortie,” and “Sheepfold,” by CHARLES JACQUE ; “View of Paris,” by MAXIME LALANNE ; “Landscape” and “Landscape in Sunshine—man reclining ;” “Landscape with Poplars,” Portrait, “Carlyle,” “The Storm,” “The Woodcutters,” by A. LEGROS ; “Darwin,” by G. MERCIER ; “Le Pont au Change,” (The Exchange Bridge) ; “Going to Work,” and “The Carder,” by J. F. MILLET ; “Early Ploughman,” “The Herdsman,” and “Opening of the Fold,” by SAMUEL PALMER ; Portrait, “John Stuart Mill,” after Portrait by G. F. WATTS ; Portrait, “Mrs. Rose,” and Portrait, “Tennyson,” by RAJON ; “Angel Appearing to the Shepherds,” “Blind Tobit,” “Death of the Virgin,” “Dr. Faustus,” “The Sacrifice of Isaac,” and “The Three Trees,” by REMBRANDT ; “Portrait,” by GEORGE F. SCHMIDT ; Portrait, “Old Man,” after REMBRANDT ; “The Windmill,” by VAN GRAVESANDE ; two “Landscapes,” by J. VEYRASSAT ; “Lady Reading,” “Nocturne, Venice,” “Palaces,” “The Balcony,” “The Beggars,” “The Bridge,” “The Doorway,” “The Kitchen,” “The Traghetto,” “Two Doorways” and “Upright Venice,” by WHISTLER ; “Le Bouvier,” by CLAUDE LORRAINE ; Portrait of “Daniel Webster,” by G. KRUELL ; “Madonna of Silence,” by F. BARTOLOZZI ; “The Storm,” after DIAZ, by TH. CHAUVEL ; “Portrait



THE HALL OF GRÆCO-ROMAN CASTS. MUSEUM BUILDING, FIRST FLOOR.



THE HALL OF GRÆCO-ROMAN CASTS. MUSEUM BUILDING, FIRST FLOOR.

of Bossuet," by PIERRE DREVET ; "Adam and Eve," by ALBERT DÜRER, "Moses with the Tables of the Law," by EDELINCK ; "Portrait," by HENDRICK GOLTJUS ; "Modern Italy," after TURNER, by WILLIAM MILLER ; Portrait of "Pomponius de Bellieure," by ROBERT NANTEUIL ; "Doctors of the Church," by SHARP ; "Gellius de Bourma," by C. VISCHER ; "Traveling Musicians," by J. G. WILLE ; "Roman Edifices in Ruins," after CLAUDE LORRAINE ; Portrait of "Rembrandt," by C. WALTNER.

These etchings and engravings were placed on exhibition in October, 1898, and are still on exhibition.

Loans to the Collections of the Department have been received during the year as follows :

From Mrs. WYATT EATON :

A life mask of ABRAHAM LINCOLN.

From Mr. CLAYTON L. MOAK :

One complete set of tea service, and cabinet to contain the same, in Chinese carved red lacquer ; a carnelian mask and an intaglio gem, an enameled Egyptian amulet, a Japanese sword rest, two boat-shaped saucers of Pekin enamel on copper, floral designs, a black lacquer cabinet with gold applique ornament, a perfume box of carved red lacquer, an oblong bowl of carved Cinnabar lacquer, a brown lacquer plaque with carved geometrical design, and a sectional box in carved red lacquer with decoration of lotus flowers in different stages of bloom.

From the Rev. J. J. BANBURY :

Six carved Chinese idols of wood, one bronze and brass figure and four bronze figures of Chinese manufacture, twenty-three pieces of rare Chinese porcelain, and one Chinese bell of bronze.

#### LANTERN SLIDES.

The Trustees have, during the past season, authorized the preparation of a collection of lantern slides to illustrate the



history, art, civilization and modern characteristics of the countries of the ancient Oriental world, viz., Mesopotamia Syria, Egypt, and Cyprus. Eight hundred slides have been procured, which are distributed as follows: For Chaldea and Assyria, 63; for Syria, 185; for Egypt, 507; for Cyprus, 45. Outside of the Chaldean, Assyrian, and Cypriote subjects nearly all of the slides obtained were colored to order. The quality of these colored slides has been recognized by the audiences which saw them on the screen at the Museum lectures, and by experts in general, as exceptionally fine, and in certain styles and fields of work as unrivaled. For purposes of accurate instruction this coloring has proved itself almost indispensable.

The authorities of the Columbia University Library loaned to the Museum, for the purpose of slide reproduction, its magnificent folios of colored plates for Egyptian Art, prepared as a French Government publication by Monsieur Prisse d'Avennes. These plates show the original Egyptian coloring in ornamental decoration, in architectural details, and in the old frescoes and tomb paintings, and these plates have been reproduced on glass slides with marvelous fidelity.

The limitation of subjects to the field of ancient Oriental Art and of the modern East Mediterranean world is due to a similar limitation in the field covered by the Museum lectures of this past season. Within this field the choice of subjects covers not only ancient Oriental Art in the narrower sense, but also the daily life of Antiquity in every field available for illustration. For the given countries equal attention has been paid, in the choice of subjects, to their modern life and culture, landscape scenery, and physical geography.

#### LIBRARY OF THE DEPARTMENT OF FINE ARTS.

Additions to the Library of the Department of Fine Arts have been made through the year as follows:

From Hon. JAMES LORD BOWES, of Liverpool :

Two volumes, text and plates, entitled "Ceramic Art in Japan."

From Mr. A. A. HOPKINS :

Eleven volumes on Art and Architecture.

From Col. HENRY T. CHAPMAN, Jr. :

Seventeen colored folio plates of Pompeiian frescoes, from the publication of Cavaliere Pasquale d'Amelio.

### DEPARTMENT OF GEOGRAPHY.

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*President.*

CYRUS C. ADAMS,

Judge CHARLES P. DALY, }

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Assoc. Supt. JOHN H. HAAREN.

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GARRETT P. SERVISS.

The organization of the Department of Geography was effected on February 15, 1890, with thirty members. The present membership is three hundred and two, a gain of fifty-eight during the year. The following regular meetings have been held on the second Friday evening of each month during the past season :

*Oct. 14.*—Miss ANNIE PAULDING MEADE, of Philadelphia, read a lecture by the late Rear Admiral RICHARD W. MEADE, U.S.N., on "The Caribbean Sea, the Mediterranean of Our Western World," illustrated by lantern photographs.

*Nov. 11.*—Lecture by Mr. HENRY G. PEABODY, of Boston

Mass., on "The Scenery of the White Mountains," illustrated by colored lantern photographs.

*Dec. 8.*—(Thursday). Lecture by Mr. HENRY G. PROUT, of New York, Editor of *The Railroad Gazette* (with General Gordon in the Soudan), on "Recent Campaigns in the Soudan."

*Jan. 13.*—Lecture by Prof. WILLIAM LIBBEY, PH.D., of Princeton University, on "Four Months in the Sierra Madre of New Mexico," illustrated by lantern photographs.

*April 14.*—Lecture by Dr. JOHN C. BOWKER, of Lawrence, Mass., on "A Trip in the Transvaal," illustrated by plain and colored lantern photographs.

Besides the foregoing lectures, given at the regular meetings of the Department, the following courses were given :

I. A Course by WILLIAM D. MCCRACKAN, PH.D., of New York, on "Switzerland and Her People." This course was given in conjunction with the Department of Political Science, and was illustrated by lantern photographs. The subjects and dates were as follows :

*Oct. 1.*—"The Early History of Switzerland and the Legend of William Tell."

*Oct. 8.*—"Switzerland during the Middle Ages."

*Oct. 15.*—"Modern Switzerland and the Life of the Swiss Peasant."

*Oct. 22.*—"The Government of Switzerland and the Swiss Army."

*Oct. 29.*—"Andreas Hofer and the Tyrol."

*Nov. 5.*—"Art in Switzerland and the Tyrol ; the Frescoes of Tristan and Isolde and of other Arthurian Legends."

II. A Course by Prof. WILLIAM H. GOODYEAR, M.A., Curator of Fine Arts of the Institute, on "Representative Italian Cities." This course was fully illustrated by lantern photographs and given in conjunction with the Department of Fine Arts, under which they are fully described.

III. A Course by Mrs. FLORENCE JACKSON STODDARD, of New York, on "The Countries of South America." This course was given in conjunction with the Department of Political Science in the Williamsburgh District of the City, in the Lee Avenue Congregational Church. The lectures were illustrated by lantern photographs. The subjects and dates were as follows :

*Jan.* 30.—"Venezuela and Guiana."

*Feb.* 6.—"Brazil and Colombia."

*Feb.* 20.—"Ecuador and Peru."

*Feb.* 27.—"Chili and Argentine."

*Mar.* 6.—"Brazil."

*Mar.* 13.—"Paraguay and Uruguay."

IV. A Series of Fifteen Saturday afternoon lectures were given at the Museum Building, by Prof. WILLIAM H. GOOD-YEAR, M.A., Curator of Fine Arts of the Institute, illustrated by lantern photographs. This course was given in conjunction with the Department of Fine Arts, under which a full description may be found.

V. A Course by Prof. HENRY E. NORTHROP, of the Polytechnic Institute, on Geographical subjects, illustrated by colored lantern photographs, and given in the Williamsburgh District of the city, in the New England Congregational Church. The subjects and dates were as follows :

*Mar.* 21.—"Vesuvius and the Bay of Naples."

*Mar.* 28.—"The Fjords and the People of Norway."

*April* 4.—"The Highways and Byways of London."

*April* 11.—"The Highlands of Scotland."

VI. A Course by Prof. PATRICK GEDDES, F.R.S.E., of University College, Dundee, Scotland, on Geographical subjects, illustrated by lantern photographs. This course was given in conjunction with the Department of Political Science, under which it is fully described.

VII. A Series of Ten Lectures given in Public School No. 72, on subjects of Geographical interest, illustrated by lantern photographs, with lectures, dates and subjects as follows :

*Oct. 20.*—Lecture by Prof. HENRY E. NORTHROP, of the Polytechnic Institute, on "Germany and the Rhine."

*Nov. 3.*—Lecture by Prin. WILLIAM A. MCANDREW, on "The Northern Pacific Railway and the Great Northwest."

*Nov. 17.*—Lecture by Prin. W. T. B. S. IMLAY, on "The Physical Geography of New York State."

*Dec. 1.*—Lecture by Mr. CHARLES M. SKINNER, of the *Fagle*, on "The Rocky Mountains of Canada."

*Dec. 15.*—Lecture by Rev. RONALD S. DAWSON, Pastor of the Ainslie Street Church, on "Hawaii, the Paradise of the Pacific."

*Jan. 5.*—Lecture by Prof. WILLIAM H. GOODYEAR, M.A., on "Egypt and the Nile."

*Jan. 19.*—Lecture by Mr. GARRETT P. SERVISS, on "Switzerland and the Alps."

*Feb. 2.*—Lecture by Prof. FRANKLIN W. HOOPER, M.A., on "The Story of the Niagara River."

*Feb. 16.*—Lecture by Prin. HOMER C. BRISTOL, on "California and the Yosemite."

*Mar. 2.*—Lecture by Mr. CORNELIUS VAN BRUNT, of New York, on "The Flowers of the Garden and the Field."

VIII. Four illustrated lectures were given at the Henry McCaddin Memorial Hall, in the Williamsburgh section of the city, as follows :

*April 18.*—Lecture by Mr. GARRETT P. SERVISS, on "William Tell and the Romance of the Alps."

*April 25.*—Lecture by Mr. GARRETT P. SERVISS, on "The Romance of the Rhine."

*May 2.*—Lecture by Mr. DWIGHT L. ELMENDORF, of New York, on "The Yellowstone Park."

*May 9.*—Lecture by Mr. DWIGHT L. ELMENDORF, of New York, on "The Grand Cañon of Colorado."

IX. The following single lectures were also given :

*Oct. 27.*—Lecture by the Rev. RONALD S. DAWSON, Pastor of the Ainslie Street Presbyterian Church, on "Hawaii, the Paradise of the Pacific," illustrated by lantern photographs.

*Nov. 3.*—Lecture by Mr. G. WHARTON JAMES, of Pasadena, California, on "The Grand Cañons of New Mexico," illustrated by lantern photographs.

*Dec. 7.*—Lecture by Prin. HOMER C. BRISTOL, on "The Geography and Scenery of Southern California." This lecture was given in co-operation with the Department of Pedagogy, and was illustrated by lantern photographs.

*Dec. 21.*—Lecture by Mr. RAMON REYES LALA, M.A., a native of Manila, on "The Philippine Islands," illustrated by lantern photographs.

*Dec. 28.*—Lecture by Mr. FRANK R. ROBERSON, of New York, on "Manila and the Philippines," illustrated by lantern photographs.

*Dec. 31.*—Lecture by Lieutenant GODFREY L. CARDEN, of the U. S. Steamship "Manning," on "The Naval Gunnery in the Spanish-American War," illustrated by lantern photographs, a majority of them taken during the Naval Battle of July 3d, off Santiago, and the other naval battles fought in Cuban waters.

*Mar. 6.*—Lecture by Mr. HENRY M. WILSON, of the United States Geological Survey, on "The Geography and Natural Resources of Porto Rico," illustrated by 100 lantern photographs taken on the island during the months of December and January of the season of 1898-9.

*Mar. 14.*—Lecture by Prof. HENRY E. NORTHROP, M.A., of the Polytechnic Institute, on "The Swiss Lakes," illustrated by lantern photographs.

In addition to the foregoing lectures and courses, which were open to all the Members on the presentation of the

Members' weekly ticket, the following Special Courses were given :

A Special Course of Five Mid-winter Lectures by Mr. BURTON HOLMES, of Chicago, illustrated by colored lantern photographs, and by motion pictures projected by the new Chronomatographe. These lectures were given on successive Monday evenings, with dates and subjects as follows:

*Jan. 16.*—"The Hawaiian Islands."

*Jan. 23.*—"The Yellowstone National Park."

*Jan. 30.*—"Fez ; the Metropolis of the Moors."

*Feb. 6.*—"Grecian Journeys."

*Feb. 13.*—"The Grand Cañon of Arizona."

A severe storm, occurring on the evening of February 13th, prevented many holders of tickets from attending the last lecture on "Grand Cañon of Arizona." It was, therefore, repeated on Monday evening, February 27th.

A Special Course of Lenten Lectures, by Mr. GARRETT P. SERVISS, on "Famous Lands and Nation-Makers," on Wednesday evenings, as follows :

*Feb. 22.*—"Florence and the Golden Age of Italy."

*Mar. 1.*—"Bismarck and Imperial Germany."

*Mar. 8.*—"Spain and Her Hundred Years of Glory."

*Mar. 15.*—"Oliver Cromwell and the Age of the Cavalier and the Puritan."

*Mar. 22.*—"Old Holland and the Romance of the Dutch Republic."

*Mar. 29.*—"Abraham Lincoln, the Flower of American Democracy."

This course was illustrated by numerous lantern photographs, and was repeated on Saturday afternoons, Feb. 25, March 4, 11, 18, 25, and April 1.

A Post-Lenten Course of four lectures was given by Mr. DWIGHT L. ELMENDORF, of New York, on Monday evenings in April, as follows :

*Apr. 3.*—"The Santiago Campaign and the Destruction of Cervera's Fleet."

*Apr. 10.*—"Jamaica, Porto Rico, and the Lesser Antilles."

*Apr. 17.*—"The Rhine and Southern Germany."

*Apr. 24.*—"Old Mexico and Her Pageants."

Each lecture was illustrated by lantern photographs, and by a series of "Cinematograph" views taken by a telephoto-lens and colored by Mr. ELMENDORF.

The first lecture, entitled "The Santiago Campaign and the Destruction of Cervera's Fleet," was repeated on May 1st and May 11th.

The collections of the Department are now on permanent public exhibit in the Geographical Room on the basement floor of the Museum Building. The number of visitors to the collection during the past season was upwards of 76,000.

During the year 1890-91, the Department, acting through its President and Executive Committee, was engaged in forming a most valuable collection of geographical publications and of apparatus used in illustrating or teaching the subject of Geography. The collection now numbers about fifteen hundred items, comprising maps, atlases, globes, contour maps, reliefs, models, telluria, text-books, works of reference, books of travel, charts, surveys and other publications from the leading publishing houses of Germany, Switzerland, France, England, Holland, Italy, Austria, Russia, Sweden, Norway and Turkey, together with the publications of the U. S. Coast and Geodetic Survey, U. S. Topographical, Geological and Ethnological Surveys, State Surveys, and other works published in the United States and Canada. The voluntary contributions during the season of 1897-8 were quite numerous. The collection is valued at over nine thousand dollars.

The library of the collection comprises many modern, historical, classical, scriptural and school atlases, together with atlases of physical geography, text-books on geography,



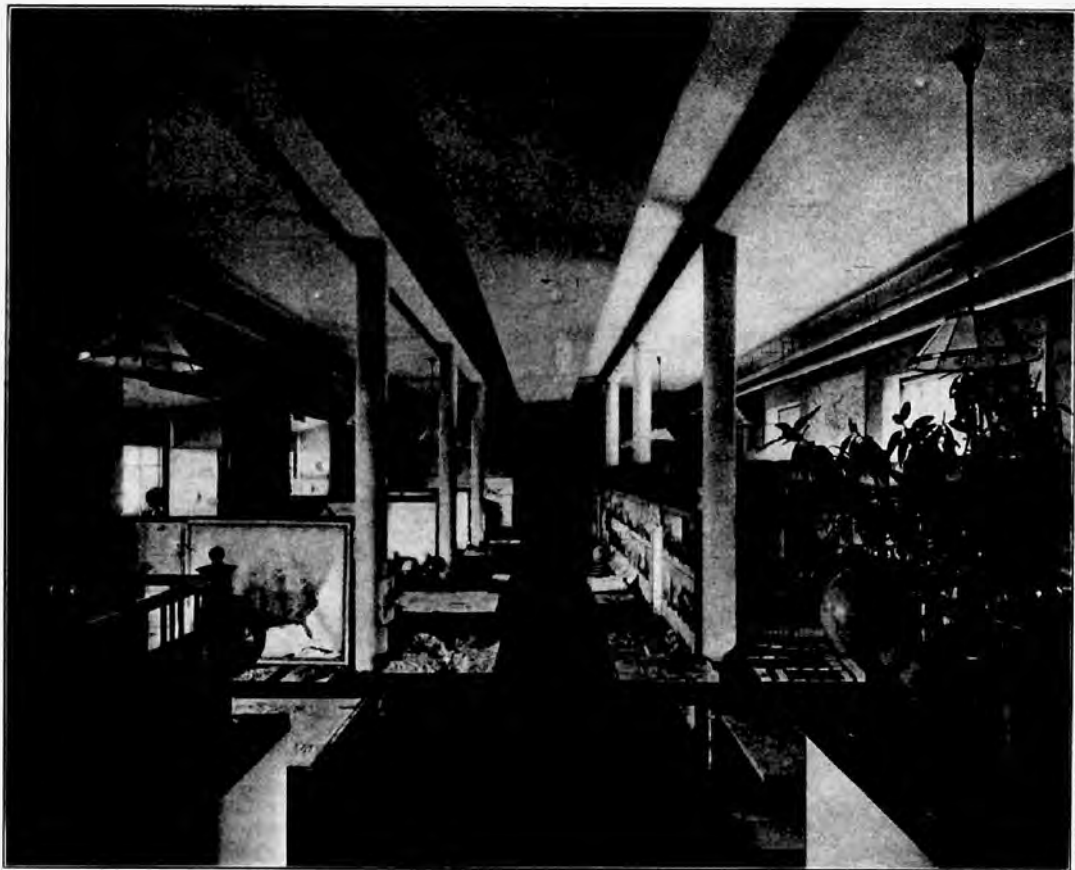
various forms of geographical drawing books, and other geographical works intended as aids to teachers, numerous dictionaries and works of reference on geography, several treatises on commercial geography and navigation, together with a selected list of books of travel and guides to tourists.

Full and accurate information concerning the entire collection may be obtained from the catalogue of the collection published by the Institute.

The Geographical Collection was first exhibited in Brooklyn during the month of March, 1891, when it was visited by about 37,000 people. In June of the same year it was exhibited in Boston, under the auspices of the Appalachian Club, and was visited by about 12,000 persons; and in December and January, 1891-2, it was exhibited at the Natural History Building, in Central Park, New York, under the auspices of the New York Teachers' Association. The attendance at the New York exhibition exceeded 14,000 persons.

The Third Annual Exhibition of Geographical Publications was given by the Department on October 13, 14 and 15, 1892, in the Galleries of the Art Association. Being held during the week of the Columbian Celebration the Exhibition was made to include more particularly those portions of the collection which relate to American Geography and Discovery.

The Fourth Annual Exhibition was given in conjunction with the Brooklyn Art Association, in the Art Galleries in Montague street, in May, 1894. It comprised the collection of photographs of the Alps, Caucasus and Pyrenees Mountains, made by Count Vittorio Sella, of Italy, and loaned to the Geographical Department by the APPALACHIAN MOUNTAIN CLUB, of Boston. The Exhibition was supplemented by the large scale Alpine maps belonging to the Department, which were used by the visitors to locate the views presented by the photographs.



HALL OF THE GEOGRAPHICAL COLLECTION. MUSEUM BUILDING, BASEMENT FLOOR.



THE JUNGFRAU FROM INTERLACHEN.

The Fifth Annual Exhibition of the Geographical collections of the Department was opened on the first of May, 1899, when a considerable number of additions were made to the collection, and were placed on exhibition for the first time.

Under the direction of Mr. JAMES S. KEMP, President of the Department, every map, globe, relief, model, atlas and work of reference in the collection has been so placed as to be accessible to the members and the general public. The collection is open to the public on the six week days and on Sunday afternoons. The number of visitors to the collection in the Museum Building has increased largely each month as the presence and the value of the collection have become more generally known. The large scale maps are frequently consulted by those who desire to arrange their routes of travel, either in the Old World or in the Western Hemisphere. The political maps are referred to by those who are teaching history, and the relief maps by those who are teaching physical geography or geology. The whole collection is a source of helpfulness to teachers engaged in the schools, colleges and other institutions of learning in Brooklyn and in the other boroughs of greater New York, enabling teachers as it does to ascertain what geographical publications will be of most value to them in their teaching. Principals and teachers from the public schools of greater New York and neighboring towns bring with them classes of pupils to study the maps of countries whose history and geography they are pursuing in the class-room.

Since the transfer of the collection in February, 1897, from the temporary exhibition rooms in the Bedford Park Building, the collection has become more widely known and utilized, as a most interesting and useful factor in the dissemination of geographical knowledge.

The collection has been visited by many distinguished scientific men and explorers, among them Prof. THOMAS C. MENDENHALL, LL.D., late Superintendent of the U. S. Coast

and Geodetic Survey, Prof. ANGELO HEILPRIN, of Philadelphia, Prof. STEPHEN SALISBURY, of Chicago, General GREELY and Lieut. PEARY, the Arctic explorers, Dr. W. A. CROFFUT and Prof. G. K. GILBERT, of the U. S. Geological Survey, and Prof. HENRY G. BRYANT, of Philadelphia.

The total number of illustrated lectures given under the auspices of the Department during the season of 1898-9, in different sections of the city, was seventy-seven. This series of lectures attracted an attendance of over fifty thousand persons.

Additions to the Geographical Collections have been made by gift during the year as follows :—

From D. C. HEATH & Co.:

Six text-books in Geography and twenty-nine progressive outline maps of the countries of Europe, of the world, and of the countries and cities of the United States.

From Mr. GEORGE C. BRACKETT :

Three large maps of (1) France, (2) the Scandinavian system, and (3) the Netherlands.

Additions to the Collection have been made by purchase as follows :—

From SHELDON & Co., Philadelphia.:

“Sand and Clay Modeling.”

From A. H. ANDREWS & Co., Chicago :

A large relief globe and stand.

From the WESMAEL-CHARLIER Co., Belgium :

Three atlases of special districts.

From LONGMANS, GREEN & Co., England :

Five volumes of “Handbooks of Geography ”

From GINN & Co., Boston :

Three Harvard geographical models, representing (1)

mountains bordered by sea, (2) coastal plains and mountains, and (3) embayed mountains.

From JULIUS BIEN, New York :

“Military Map of the Isle of Luzon.”

Donations have been made to the Library of the Department of Geography during the year as follows :—

From the AMERICAN GEOGRAPHICAL SOCIETY :

One year's issue of the Bulletin of the American Geographical Society.

From Mr. THEODORE D. BROWN :

Thirteen volumes of the Government Survey for a railroad from the Mississippi to the Pacific.

From the UNIVERSITY OF IOWA :

“The Far North.”

## DEPARTMENT OF GEOLOGY.

JOHN MICKLEBOROUGH, PH.D.,	<i>President.</i>
ROSSITER W. RAYMOND, PH.D.,	<i>Vice-President.</i>
Prof. WALLACE GOOLD LEVISON, B.Sc.,	<i>Secretary.</i>
Prof. DANIEL S. MARTIN, M.A.,	<i>Curator.</i>

### *Executive Committee.*

Prof. JOHN MICKLEBOROUGH, PH.D.	Prof. FRANKLIN W. HOOPER.
ROSSITER W. RAYMOND, PH.D.	Prof. DANIEL S. MARTIN, M.A.
Prof. JOHN S. MCKAY, PH.D.	WILLIAM G. BOWDOIN.
Prof. J. J. STEVENSON.	WALLACE G. LEVISON, B.Sc.
WILLIAM F. SEBERT.	WILLIAM H. BEDFORD.
Prof. JAMES PRIDDY.	FREDERICK BRAUN.

The Department of Geology was organized on December 18, 1888, with thirty-four members ; its present membership is one hundred and fifty-six. The meetings during the year have been held on the first Monday of each month as follows :

*Oct. 3.*—Lecture by Prof. BENJAMIN K. EMERSON, PH.D. of Amherst College, on "The Ancient Reptile Tracks of the Connecticut Valley Sandstone," illustrated by specimens and by lantern photographs.

*Nov. 7.*—Lecture by Prof. JAMES F. KEMP, PH.D., of Columbia University, on "Volcanic Rocks," illustrated by the projection, with polarized light, of sections of Volcanic Rock on the screen.

*Dec. 5.*—Lecture by Prof. JAMES F. KEMP, PH.D., on "The Sedimentary Rocks," illustrated by the projection of rock sections, with and without polarized light, by the stereopticon, and by lantern photographs.

*Jan. 2.*—Lecture by Prof. CHARLES D. WALCOTT, PH.D., Chief of the U. S. Geological Survey and Assistant Secretary of the National Museum, Washington, on "Searching for the Earliest Traces of Life on the North American Continent," illustrated by lantern photographs.

*Feb. 6.*—Lecture by Prof. HENRY F. OSBORN, PH.D., of Columbia University, on "The Great Dinosaurs of the Upper Jurassic Period," illustrated by lantern photographs.

*Apr. 3.*—Lecture by Prof. WILLIAM NORTH RICE, PH.D., LL.D., of Wesleyan University, on "The Physical Geography of the State of Connecticut," illustrated by lantern photographs.

*May 1.*—Lecture by RICHARD D. DODGE, PH.D., of Columbia University, on "The Geological History of the Lower Hudson River and the Palisades," illustrated by lantern photographs.

Besides the foregoing lectures given at the regular monthly meetings, the following special lecture was given:

*Dec. 16.*—Lecture by Dr. J. L. WORTMAN, of the American Museum of Natural History, on "The Birth of the Rocky Mountains," illustrated by lantern photographs.

The Department held occasional Field Meetings in connection with the Department of Mineralogy and the New

York Mineralogical Club during the months from June to October. These meetings gave Members an opportunity to study the Geology and Mineralogy of New York, New Jersey and Connecticut, within a radius of sixty or seventy miles of Brooklyn, and to add to their collections excellent specimens. Each excursion was in charge of some Member who was acquainted with the locality visited.

The Fifth Annual Geological Exhibition was held on the second floor of the Museum Building from Saturday, November 5th, until Monday, November 21st. The Exhibition included portions of the Geological Collections of the Institute and Loan Collections from Capt. C. A. SCANLAN, Dr. JOSEPH H. HUNT and from several Members of the Department.

#### THE GEBHARD GEOLOGICAL COLLECTION.

The collection of fossils collected by Mr. W. D. GEBHARD, of Schoharie, N. Y., presented to the Institute by Mr. FRANK S. JONES, of Brooklyn, was made from the geological formations that are represented in the County of Schoharie, N. Y., during the years 1870 to 1890, inclusive. It represents the formations from the Hudson River group, at the bottom of the Schoharie formations, to the top of the Hamilton group, including the upper and lower Helderberg series and the Coralline Limestone series. The collection is remarkable in the large number of new species and the perfect character of many of the specimens which it contains, representing the life of all the geological divisions and particularly those of the Coralline Limestone and upper Helderberg divisions.

The late Professor JAMES HALL, LL.D., New York State Geologist, wrote in 1895 concerning the collection as follows:

"I believe I know your collection and its merits pretty well. It embraces a very complete series of fossils, representing the faunas of the successive formations from the Hudson River group to the top of the Hamilton group.



This section of the paleozoic strata in the Schoharie valley is unique. In no other part of our country, and, I believe, in no other part of the world, can there be found so complete a succession within so limited an area. For a public museum I consider the collection invaluable, and I had long hoped to see it in the State Museum at Albany. This collection is well worthy of being kept by itself, as supplementary to the great collections now in the American Museum in New York City. It would furnish ample material for a beautiful Memoir or Bulletin upon the Geology and Paleontology of the Schoharie valley, as well as add much new material to any collection."

ORDER OF THE GEOLOGICAL FORMATIONS AT SCHOHARIE,  
N. Y., AS REPRESENTED IN THE GEBHARD COLLECTION.

HAMILTON GROUP—

Goniatite limestone.  
Marcellus shale.

UPPER HELDERBERG GROUP—

Corniferous limestone.  
Schoharie grit.  
Caudi-galli grit.  
Oriskany sandstone, rhomboidal layers.  
Oriskany sandstone, laminar layers.

LOWER HELDERBERG GROUP—

Pentamerous Upper, crinoidal.  
Pentamerous Upper, heavy layers.  
Scutella, firestone.  
Delthyris, shaly.  
Delthyris, silicious.  
Delthyris, crinoidal.  
Pentamerous Lower, crinoidal.  
Pentamerous Lower, heavy layers.  
Pentamerous Lower, fucoid.

- Tentaculite limestone, laminar layers.
- Tentaculite limestone, building stone.
- Tentaculite limestone, black marble.
- Water limestone, laminar layers.
- Water limestone, strontianite and stalactites.
- Water limestone, hydraulic cement.

The Geological Collections of the Institute comprise the following: (1) A collection of lithological specimens representing the drift deposits of Long Island. (2) A collection of fossils found in the drift deposits of Long Island. (3) A collection of sands arranged in stratigraphical series representing the tertiary and quaternary deposits of Long Island. (4) A collection of lithological specimens representing the geological formations (including the drift deposits) on Manhattan Island. (5) A collection of lithological specimens representing the geological formations (including the trap rock of the Palisades) of New Jersey. (6) The GEBHARD Collection representing the paleontology and lithology of Schoharie County, N. Y. (7) A lithological collection representing the plutonic rocks of Germany. (8) A collection representing the coal plants of the Pennsylvania carboniferous rocks. (9) A general lithological collection representing typical rocks from various parts of the United States and Europe. (10) A collection of fossils from the geological formations in southern Germany.

The Department of Geology also has the following loan exhibits: (1) The C. A. SCANLAN collection of fossils from the phosphate beds of South Carolina, gathered between the years of 1870 and 1890. (2) A general collection in paleontology and lithology loaned by Prof. DANIEL S. MARTIN. (3) A lithological collection representing the mineral quartz and loaned by JOSEPH H. HUNT, M.D.

The Collections of the Department of Geology have received donations during the year as follows:—

From the RUMFORD FALLS POWER CO., Maine :

A large example of a glacial pothole, taken from a hillside in Rumford Falls.

From Mr. J. EDWARD YOUNG :

Sixty-six fossils taken from the peat-bogs of the British Isles.

From Mrs. C. E. HUNTINGTON :

Nineteen large fossils.

From Mr. CARLL H. DE SILVER :

Thirty-nine large photographs taken from the geologic formations along the line of the Central Pacific Railroad, from the Yosemite valley, and from Colorado.

From Mrs. ANNA K. THAYER :

The J. C. KINGSLEY Collection of two hundred and fifty fossils from Germany.

Loans to the Collections of the Department have been received during the year as follows :—

From Mr. W. H. BOAM :

Geyserite formation from the Yellowstone Park.

From Professor DANIEL S. MARTIN :

One fossil Ichthyosaurus.

Additions have been made by purchases during the year as follows :—

From WARD'S Natural Science Establishment, Rochester, N. Y. :

Model of a Trilobite ; models of the six systems of Crystallography ; Models of the geological formations of six mining regions of Europe ; a model of Montezuma's Well, and models showing the structure, effect of faulting and erosion on the outcrop of stratified rocks.

Donations to the Library of the Department of Geology were received during the year as follows :—

From Mr. J. S. MILLER :

“ Bulletin of the Geological Survey.”

From the DEPARTMENT OF THE INTERIOR :

“ Water Supply and Irrigation papers,” publications for the year 1898-9

From the NEW YORK STATE MUSEUM :

“ Guide to the Geological Collections of the New York State Museum.”

I. CORALLINE LIMESTONE—

Iron pyrites, bisulphuret, baryta nodules.

Gypsum, fertilizer.

II. HUDSON RIVER SANDSTONES—

Sandstones.

## DEPARTMENT OF LAW.

HON. FREDERICK W. HINRICHS, *President.*

HON. ROBERT D. BENEDICT, LL.D., *First Vice-President.*

J. HAMPDEN DOUGHERTY, *Second Vice-President.*

ELMER G. SAMMIS, *Secretary.*

### *Executive Committee.*

HON. FREDERICK W. HINRICHS, *Chairman.*

HON. JAMES MCKEEN.

HON. ROBERT D. BENEDICT, LL.D.

HON. W. W. GOODRICH.

Prof. ISAAC F. RUSSELL, LL.D.

HON. THOMAS G. SHRARMAN.

HON. WILLARD BARTLETT.

HON. JAMES D. BELL.

GEORGE H. FISHER.

HON. ALBERT G. McDONALD

J. HAMPDEN DOUGHERTY.

SIDNEY V. LOWELL.

ELMER G. SAMMIS.

## STANDING COMMITTEES.

### *International Law and Arbitration.*

HON. JAMES MCKEEN, *Chairman.*

HON. EDGAR M. CULLEN.

GEORGE C. BRAINERD.

HON. ALBERT E. LAMB.

ALFRED E. HINRICHS.

*Committee on Constitutional Law.*HON. WILLIAM W. GOODRICH, *Chairman.*

HON. WILLIAM J. GAYNOR.

HON. GEORGE G. REYNOLDS.

HON. HORATIO C. KING.

HON. CHARLES H. RUSSELL.

*Committee on Civil Law and Procedure.*HON. THOMAS G. SHEARMAN, *Chairman.*

HON. J. EDWARD SWANSTROM.

JOHN H. CREEVEY.

S. PERRY STURGES.

CHARLES F. MOODY.

*Committee on Criminal Law and Procedure.*HON. JAMES D. BELL, *Chairman.*

COL. ALEXANDER S. BACON.

JOHN C. MCGUIRE.

HON. JOHN A. TAYLOR.

FREDERICK E. CRANE.

*Committee on Property and Contracts.*HON. ALBERT G. McDONALD, *Chairman.*

FRANK H. FIELD.

ERNEST P. BROOK.

MAX BRILL.

MRS. CORNELIA K. HOOD.

*Committee on Jurisdiction and Procedure in Equity.*SIDNEY V. LOWELL, *Chairman.*

ALFRED F. BRITTON.

SANFORD H. STEELE.

S. PERRY STURGES.

BENJAMIN F. BLAIR.

*Committee on Admiralty Law.*HON. ROBERT D. BENEDICT, LL.D., *Chairman.*

HON. WILLIAM W. GOODRICH,

HARRINGTON PUTNAM.

HON. EDWARD H. HOBBS,

HENRY T. WING.

*Committee on Patent Law, Trade Marks and Copyrights.*PROF. ISAAC F. RUSSELL, LL.D., *Chairman.*

JAMES W. MCDERMOTT.

JOSEPH E. OWENS.

STILLMAN F. KNEELAND

ADOLPH KIENDL.

*Committee on Professional Ethics.*HON. WILLARD BARTLETT, *Chairman.*

HON. BENJAMIN D. SILLIMAN.

GEN. STEWART L. WOODFORD.

HON. WILLIAM B. HURD, JR.

HON. GEORGE B. ABBOTT.

*Committee on Partnerships and Corporations.*GEORGE H. FISHER, *Chairman.*

CHARLES F. AYER.

FREDERICK P. BELLAMY.

HON. JESSE JOHNSON,

GEORGE FREIFELD.

*Committee on Municipal Law.*J. HAMPDEN DOUGHERTY, *Chairman.*

ELMER G. SAMMIS.

NELSON G. CARMAN, JR.

HIRAM R. STEELE.

ARTHUR C. SHENSTONE.

This Department was organized on Friday, June 14, 1895, with a membership of one hundred and twenty-three. On January 27, 1896, the Executive Committee held its first meeting and appointed its Standing Committees. The first public meeting was held on Monday evening, March 30, 1896, and the Opening Address was delivered by the Hon. EDWARD J. PHELPS, LL.D., ex-Minister to Great Britain.

The present membership of the Department is two hundred and thirty-nine.

A Course of Monday evening lectures, on "Public Law, International and Constitutional," was given by Prof. ISAAC F. RUSSELL, LL.D., of the Law School of New York University, with dates and subjects as follows :

*Oct.* 10.—"International Law, its Authority and Progress."

*Oct.* 17.—"The Public Law of Nations."

*Oct.* 24.—"International Law in the Time of Peace."

*Oct.* 31.—"International Law in Time of War."

*Nov.* 7.—"Equality Before the Law."

*Nov.* 14.—"The Evolution of Popular Government."

*Nov.* 21.—"The Economic Influence in Constitutional Development."

*Nov.* 28.—"The Influence of War in our Constitutional History."

*Dec.* 5.—"The Federal Judiciary System."

*Dec.* 12.—"Constitutional Amendments."

A Course of "Law Lectures for Women" was given by

Mrs. CORNELIA K. HOOD, LL.B., on Thursday afternoons, as follows :

- Jan.* 12.—“The Nature of Law.”
- Jan.* 19.—“Marriage.”
- Jan.* 26.—“Property Rights of Married Women.”
- Feb.* 2.—“Parent and Child.”
- Feb.* 9.—“Contracts and their Construction.”
- Feb.* 16.—“Promissory Notes, Checks, Bills of Exchange.”
- Feb.* 23.—“Deeds, Leases and Mortgages.”
- Mar.* 2.—“Wills, and Laws of Inheritance.”

Besides the foregoing courses, three special addresses were given as follows :

*Oct.* 24.—“Lecture by FREDERICK H. COOKE, Esq., of New York, on “The Origin and Development of the Modern Conception of Strikes and Boycotts.”

*Nov.* 28.—Address by GEORGE DOAN RUSSELL, Esq., of New York, on “The Laws of New York on Mechanics’ Liens.”

*Apr.* 24.—Address by the Hon. FREDERICK W. HINRICHS, President of the Department, on “Trade Marks and Unfair Competition in Trade.”

## THE CONSTITUTION OF THE DEPARTMENT.

ARTICLE I. The purposes of the Department shall be to promote the increase and diffusion of knowledge of Law, to encourage good fellowship among members of the bar, and to elevate the standard of the legal profession.

ART. II. The purposes of the Department shall be accomplished by means of (1) Addresses on Legal Subjects of local, state, national and international interest, by men of eminence in the legal profession; (2) Courses of lectures on various branches of Law by specialists; (3) Courses of elementary instruction in the Principles and Practice of Law for the benefit of those whose business interests require some knowledge of legal methods; and (4) Such other work as may from time to time be advised by the Department.

ART. III. The members of the Department shall consist of those members of the Institute who may be elected by the Department in accordance with the By-laws which the Department may adopt.

ART. IV. The attendance on lectures and meetings held under the auspices of the Department shall be regulated by the Department itself, subject to the Constitution and rules of the Institute.

ART. V. The officers of the Department shall be a President, two Vice-Presidents and a Secretary.

ART. VI. The general direction of the work of the Department and the arrangements for addresses, lectures and meetings, shall be placed in the hands of an Executive Board, to consist of fifteen persons, including the foregoing officers named, and the Chairmen of the Standing Committees.

ART. VII. The Standing Committees of the Department shall be as follows: (1) On "International Law and Arbitration;" (2) on "Constitutional Law;" (3) on "Common Law and Civil Procedure;" (4) on "Criminal Law and Procedure;" (5) on "Property and Contracts;" (6) on "Jurisdiction and Procedure in Equity;" (7) on "Partnership and Corporations;" (8) on "Municipal Law;" (9) on "Admiralty Law;" (10) on "Patent Law;" (11) on "Professional Practice."

Each Standing Committee shall consist of five persons who shall have charge of the special work done under the auspices of the Department in its own particular subject, and shall report to the Executive Committee in June of each year, recommendations for meetings, lectures and addresses for the following twelve months.

ART. VIII. The regular meetings of the Department shall be on the fourth Monday evening of each month, omitting July and August.



ART. IX. The officers of the Department shall be elected at the regular meeting in May, to hold office for one year, or until their successors are elected.

ART. X. The President shall appoint the chairmen of the eleven Standing Committees on the first Monday in June of each year, to hold office for one year, or until their successors are appointed.

ART. XI. The Executive Board shall appoint the remaining members of the Standing Committee on or before the second Monday in June, to hold office for one year, or until their successors are appointed.

ART. XII. A quorum of the Department for the transaction of business shall consist of twelve members, and five members of the Executive Committee shall constitute a quorum.

ART. XIII. This Constitution may be amended by a two-thirds vote of members present at any regular meeting, provided a three weeks' notice of the proposed amendment has been mailed to each member of the Department.

DONATION TO THE LIBRARY OF THE DEPARTMENT OF LAW.

From ALFRED E. HINRICHS, Esq., "New York Law as to Charitable Wills."

## DEPARTMENT OF MATHEMATICS.

PRIN. CHARLES W. LYON, JR.,	<i>President.</i>
JAMES CRUIKSHANK, LL.D., )	<i>Vice-Presidents.</i>
Prof. RUFUS SHELDON, M.A., )	
J. P. WINTRINGHAM,	<i>Secretary.</i>

### *Executive Committee.*

PRIN. CHARLES W. LYON, JR.	PROF. ISAAC E. HASBROUCK, C. E.
PROF. RUFUS SHELDON, M. A.	PRIN. JAMES J. MCCABE.
JAMES CRUIKSHANK, LL. D.	J. P. WINTRINGHAM.
PRIN. CHARLES D. LARKINS.	MISS FANNIE I. TOLMAN.

The organization of this Department was effected on May 23, 1890, with a membership of twenty-five. The present membership is one hundred and five, a gain of twelve during the past year. The meetings of the Department during the season have been as follows :

*Nov. 28.*—Lecture by Prin CHARLES W LYON, Jr., President of the Department, on "The Mathematics of Range Finding, and of the Force and Velocity of Projectiles in Gunnery," illustrated by lantern photographs.

*Jan. 30.*—Lecture by Prof. ROBERT S. WOODWARD, Ph.D., of Columbia University, on "The Doctrine of Chances," illustrated by lantern photographs.

*Feb. 27.*—Lecture by Prof. JOHN S. MCKAY, Ph.D., on "Generalization of Mathematical Processes," illustrated.

*Mar. 27.*—Lecture by Prof. RUFUS SHELDON, M.A., of the Polytechnic Institute, on "Curious Mathematical Problems and Methods."

*May 22.*—Lecture by BRACE CHITTENDEN, Ph.D., of Columbia University, on "Three Famous Problems of Antiquity: The Trisection of the Angle, the Squaring of the Circle, and the Duplication of the Cube," illustrated.

## DEPARTMENT OF MICROSCOPY.

ARTIS H. EHRMAN,  
LAWRENCE L. DUERDEN,  
WILLIAM G. BOWDOIN,  
JAMES WALKER,

*President.*  
*Vice-President.*  
*Secretary.*  
*Curator.*

### *Executive Committee.*

ARTIS H. EHRMAN.  
WILLIAM W. LAING, M.D.  
HENRY S. WOODMAN.  
CHARLES P. ABHEY.  
GEORGE E. ASHBY.

JAMES WALKER.  
WILLIAM G. BOWDOIN.  
JOSEPH E. BROWN.  
GEORGE P. SANBORN.  
WALLACE GOULD LEVISON, B.Sc.

This Department was organized by the Brooklyn Microscopical Society in April, 1888, with a membership of sixty-

eight, and is the oldest in the Institute. Its present membership is one hundred and thirty-seven. The regular meetings are held on the second Monday evening of each month, and have been during the year as follows :

*Oct. 10.*—Lecture by Mr. GEORGE C. WHIPPLE, Biologist of the Water Supply Division of the City Works Department, Brooklyn, on "Microscopical Organisms that have Caused Impure Water Supplies in America," illustrated by lantern photographs.

*Nov. 14.*—Lecture by Prof. HERBERT W. CONN, PH.D., of Wesleyan University, on "The Bacteriological Methods of the Laboratories of Europe," illustrated by lantern photographs, and given in conjunction with the Department of Botany.

*Feb. 13.*—Lecture by HENRY E. CRAMPTON, JR., PH.D., of Columbia University, on "The Fertilization of the Animal Egg," illustrated by lantern photographs of the cellular structure of the egg.

*Mar. 13.*—Lecture by SMITH ELY JELLIFFE, M.D., of New York, on "The Structure of the Vegetable Cell," illustrated by lantern photographs.

*April 10.*—Lecture by CHARLES B. DAVENPORT, PH.D., of Harvard University, Director of the Biological Laboratory of the Institute, Cold Spring Harbor, on "Some Modern Methods and Results in the Study of Embryology," illustrated by lantern photographs.

*May 8.*—Lecture by WILLIAM W. LAING, M.D., President of the Department, on "Pathogenic Bacteria and Disease," illustrated by microscopic preparations and lantern photographs.

Besides these regular meetings, informal meetings were held on the fourth Tuesday evening of each month, which afforded members an opportunity for the discussion and the exhibition of their individual work with the microscope. The dates and proceedings at these meetings were as follows:

*Oct. 25.*—Conference on "Diatoms." Mr. HENRY S. WOODMAN, Member of the Executive Committee, exhibited and described Microscopical Preparations of Diatoms. Exhibits were also made by Mr. GEORGE W. MULLER, and other Members.

*Nov. 22.*—Conference on "Insect Anatomy." Messrs. CHARLES P. ABBEY, HENRY S. WOODMAN, OLIVER D. CLARK, LYMAN A. BEST, and other members exhibited Microscopical Preparations of Insects.

*Dec. 27.*—Conference on "The Vegetable Tissues of Flowering Plants." Mr. JOSEPH E. BROWN read a paper, entitled "A Study of a Common Wayside Weed," illustrated by a series of microscopic preparations. Mr. GEORGE P. SANBORN read a paper on "Plant Tissues," illustrated by lantern photographs.

*Jan 24.*—Conference on "Sections of Rocks and Minerals." Exhibits were made by Messrs. WALLACE GOOLD LEVISON, JAMES WALKER, ARTIS H. EHRMAN, JOHN LAMONT, and other members.

*Feb. 28.*—Conference on "The Methods of Staining Blood Corpuscles and Animal Tissues." Exhibits were made by Messrs. WILLIAM W. LAING, M.D., JOSEPH H. HUNT, M.D., HEBER N. HOOPLE, M. D., and ARCHIBALD MURRAY, M.D.

*Mar. 28.*—Conference on "The Staining of Vegetable Tissues." Messrs. CHARLES P. ABBEY, JOSEPH E. BROWN and GEORGE P. SANBORN exhibited and described mounted specimens of Stained Tissues of Plants.

*Apr. 25.*—Conference on "Forminifera." Messrs. S. E. STILES, M.D., GEORGE E. ASHBY, JAMES WALKER, STEPHEN HELM, F.R.M.S., and other Members exhibited and described specimens.

*May 23.*—Conference on "Pond Life." Messrs. WILLIAM G. BOWDOIN, E. C. CHAPMAN, FREDERICK KATO, LAWRENCE L. DUERDEN and other Members exhibited mounted specimens of Pond Life.

The Twelfth Annual Exhibition of Microscopic Preparations and Apparatus was held on Saturday evening January 7th, at the Art Galleries, 174 Montague street. The exhibitors were : P. E. DEMAREST, PH.D., JAMES WALKER, CHARLES P. ABBEY, JOSEPH E. BROWN, ARTIS H. EHRLMAN, GEORGE W. MULLER, O. B. LEWIS, LAWRENCE L. DUERDEN, R. B. RANDOLPH, Dr. J. W. METCALF, HERBERT B. BALDWIN, WILLIAM URBAN, Jr, Mrs. WILLIAM URBAN, Jr., GEORGE E. ASHBY, FREDERICK KATO, WILLIAM W. LAING, M.D, Miss ESTHER F. BYRNES, Mrs CHARLES A. SACKETT, JOHN W. FRECKELTON, STEPHEN HELM, HENRY S. WOODMAN, Miss MARGUERITE T. LEE, Miss MYRA CHATTERTON, Miss MARGARET L. INGALLS, Miss CLARA C. CALKINS, Miss IDA CLENDENIN, EDWARD C. CHAPMAN, P. D. ROLLHAUS, J. J. SCHOONHOVEN, WILLIAM MAIN, JOSEPH H. HUNT, M.D., GEORGE M. HOPKINS, I. MACMUNN HOLLY, M.D., FRANK HEALY, EDWARD F. BIGELOW, WILLIAM G. BOWDOIN, MARTIN H. WILCKENS, F. L. SMITH, WALLACE GOOLD LEVISON, B.Sc., Prof. A. P. LOHNESS, LOUIS W. FROELICH, GEORGE A. FISKE, CHARLES E. W. HARVEY, Prof. WILLIAM C. PECKHAM, WILLIAM FINNEY, EDWARD W. RUNYON, GEORGE P. SANBORN, JOHN LAMONT, ELLIOTT R. DOWNING, THE BAUSCH & LOMB OPTICAL Co., A. A. DAL MOLIN, for RICHARDS & Co., and the MEMORIAL HOSPITAL LABORATORY, under the direction of Dr. GODDARD and Dr. CASSIDY.

The Department has for use at its meetings at the Museum Building thirty good Microscope Stands with attachments to aid in the illustration of subjects under consideration. The same stands are also for the use of other Departments of the Institute.

Additions to the collections and apparatus of the Department have been made during the year, as follows :—

From Mr. G. M. MATHER :

Twenty-five slides of mineral and geological subjects ; twenty-nine unmounted photographs of microscopical views

of zoological subjects; twenty-three lithograph reproductions of microscopical views taken for the U. S. Geological Survey.

Additions made by purchase were as follows:—

From RICHARDS & Co., N. Y.:

Fifteen Reichert Compound Microscopes, with complete fittings for each.

From BAUSCH & LOMB OPTICAL Co., Rochester, N. Y.:

Fifteen Compound Microscopes and two Microtomes, with complete fittings for each.

### DEPARTMENT OF MINERALOGY.

WALLACE GOOLD LEVISON, B.Sc.,  
 ARTIS H. EHRMAN,  
 CHARLES L. HATCH,  
 WILLIAM URBAN, Jr.,  
 JAMES WALKER,

*President.*  
*Vice-President.*  
*Secretary.*  
*Treasurer.*  
*Curator.*

#### *Executive Committee.*

WALLACE GOOLD LEVISON.  
 GEORGE E. ASHBY.  
 WILLIAM G. ROTHE.  
 ARTIS H. EHRMAN.

JOHN W. FRECKELTON.  
 WILLIAM F. SEBERT.  
 CHARLES L. HATCH.  
 JAMES WALKER.

WILLIAM URBAN, Jr.

#### *Excursion Committee.*

FREDERICK KATO.  
 J. A. GRENZIG, Jr.

JAMES WALKER.  
 ARTIS H. EHRMAN.

WALLACE GOOLD LEVISON.

The Department of Mineralogy was organized on November 21, 1888, with twenty-eight members. The present membership is one hundred and thirty-nine, a gain of six during the year. The regular meetings were held on the second Thursday of each month, and during the year the proceedings at the meetings have been as follows:

*Oct. 13.*—Lecture by WALLACE GOOLD LEVISON, B.Sc., President of the Department, on "Luminescent Minerals,"

illustrated by experimental demonstrations and by examples of phosphorescent minerals.

*Nov. 10.*—Lecture by Prof. JAMES F. KEMP, PH.D., of Columbia University, on "Plutonic Rocks," illustrated by the projection of microscopic sections of plutonic rocks on the screen with polarized light.

*Dec. 8.*—Lecture by Prof. JAMES F. KEMP, PH.D., on "Metamorphic Rocks," illustrated by the projection of microscopic sections of rocks with and without polarized light by the stereopticon, and also by lantern photographs.

*Jan. 11. (Wednesday)*—Lecture by Prof. LEA MCL. LUQUEER, PH.D., of Columbia University, on "The Character of Minerals in Rock Sections," illustrated by the projection of Microscopic Sections on the screen with polarized light.

*Mar. 9.*—Lecture by Prof. ALFRED J. MOSES, PH.D., of Columbia University, on "The Transmission of Light in Crystals," illustrated by experimental demonstrations.

*Apr. 13.*—Lecture by HENRY T. WEED, B.Sc., of the Manual Training High School, on "The Use of Electric Furnaces in the Reduction of Rare Metals," illustrated.

Besides the foregoing lectures given at the regular meetings, the following lectures and conferences were held:

*Nov. 18.*—Lecture by Mr. CHARLES H. PENNYPACKER, of Westchester, Pa., on "Calcites," illustrated by a large and valuable collection of specimens of calcite.

*Dec. 31.*—Lecture by Mr. GEORGE L. ENGLISH, of New York, on "Visits to Mineral Localities at Home and Abroad," illustrated by collections of minerals.

*Jan. 27.*—Lecture by Mr. ROY HOPPING, of New York, on "Teaching Mineralogy in the Schools," illustrated by a collection of minerals suitable for teaching Mineralogy.

*Feb. 24.*—Conference Paper by Mr. LAZARD CAHN, of New York, on "Some Newly Described Mineral Species, and some Interesting Examples of Old Species."

*Mar. 24.*—Conference on "Minerals from the Haddam

Locality." Description by Mr. ERNEST L. SCHERNIKOW, of New York, of "A Collection of Haddam Minerals," and exhibits by Members of the Department.

May 26—Conference on the Minerals: "Barite, Strontianite and Gypsum." Exhibition of new and interesting specimens of these minerals by Members of the Department.

Donations to the collections of the Department have been made during the year as follows:—

From Mr. GEORGE L. ENGLISH:

A very large specimen of Rubellite, in Lepidolite, and a large twin Calcite crystal.

From Mr. G. A. SKRZYNEKI:

Two jars of Fuller's earth.

From Mr. E. E. PORTER:

Specimens of Quartz from Connecticut.

From Mr. JAMES H. HART:

Eight specimens of Mexican Onyx, in the following shapes: Three small cubes, three books containing cross-sections of the onyx, a carved group of pears on a plate, and a large cross-section, the specimens being taken from Pueblo, Mexico.

From Mrs. ANNA K. THAYER:

The J. C. KINGSLEY Collection of one hundred and twenty lithological specimens and four hundred mineral specimens.

Additions to the Collection by purchase:—

From GEORGE L. ENGLISH:

Fourteen specimens of Calcite from the Stank Mines; Dolomite and Azurite from Austria; Crocidolite from South Africa; Manganite from Germany; three Calcites from Germany; Hematite from England; Calcite, Barite, and Smithsonite on Cerussite from Maine.



Additions to the Collections by loan :—

From Mr. CHARLES H. PENNYPACKER :

A collection of fourteen Calcites from England, Mexico and Saxony.

From Mr. WALLACE GOOLD LEVISON :

Specimen of Casivellite from Franklin Furnace, N. J.

The Exhibits of Minerals by Messrs. WILLIAM G. ROTHE, WALLACE GOOLD LEVISON, ARTIS H. EHRLMAN, Prof. DANIEL S. MARTIN, JAMES WALKER and Dr. JOSEPH H. HUNT were continued during the past season.

The Department has placed recently portions of its Collections in the Museum Building, and is now engaged in arranging them for public exhibition and study.

During the summer months, in connection with the New York Mineralogical Club, the Members of the Department held Field Meetings at points of geological and mineralogical interest, within a radius of sixty or seventy miles of the city. Among the places visited were Plainfield, Sayreville, Caldwell Junction, Paterson and Upper Montclair, New Jersey; and Bronx Park and Bedford, New York. Numerous and valuable specimens were obtained by the Members at these Field Meetings.

The Department has purchased an instrument for trimming minerals, which is used by its Members at the Bedford Park Building.

#### DEPARTMENT OF MUSIC.

WALTER S. CARTER, LL. B.,  
CHARLES H. MORSE,  
R. HUNTINGTON WOODMAN,  
JOHN HYATT BREWER,  
PERLEE V. JERVIS,

*President.*  
*First Vice-President.*  
*Second Vice-President.*  
*Secretary.*  
*Librarian.*

## THE ADVISORY BOARD.

The President of the Board of Trustees and of the Council, together with the Director of the Institute, are members, *ex officio*.

*Terms expire in April, 1900.*

Mrs. H. S. ANDERSON,  
JOHN F. ANDERSON, Jr.,  
T. MERRILL AUSTIN,  
WALTER S. CARTER,  
JAMES H. DOWNS,  
EDMUND D. FISHER,

ROBERT A. GAYLER,  
WILLIAM HEATON,  
W. F. HERBERT,  
Mrs. ANDREW JACOBS,  
Mrs. HENRY I. JUDSON,  
HERBERT S. SAMMOND.

*Terms expire in April, 1901.*

ARTHUR CLAASSEN,  
HOWARD W. CONNELLY,  
Mrs. ETHAN ALLEN DOTY,  
CARL FIQUE,  
Mrs. THOMAS F. GOODRICH,  
WILLIAM S. HASKELL,

E. I. HORSMAN, Jr.,  
R. W. MIDDLETON,  
LOUIS MOLLENHAUER,  
Mrs. ALICE JACKSON PARSON,  
WILLIAM C. REDFIELD,  
J. E. VAN OLINDA.

*Terms expire in April, 1902.*

H. E. H. BENEDICT,  
Miss MARY BENSON,  
ERNST BYSTRÖM,  
Mrs. A. B. CHANDLER,  
FREDERICK E. CRANE,  
E. J. GRANT,

HENRY E. HUTCHINSON,  
PERLEE V. JERVIS,  
Miss ALICE M. JUDGE,  
ALBERT MILDENBERG,  
ARTHUR ROWE POLLOCK,  
FREDERIC REDDALL.

*Terms expire in April, 1903.*

Mrs. DUDLEY R. ANDREWS,  
Mrs. DWIGHT P. CLAPP,  
Dr. HENRY G. HANCHEFF,  
LOUIS KOEMMENICH,  
CHARLES H. MORSE,  
GEORGE F. MORSE,

FRANCIS J. MULLIGAN,  
CHARLES STUART PHILLIPS,  
HENRY SCHRADIECK,  
WILLIAM A. THAYER,  
Mrs. MARY WARDELL,  
R. HUNTINGTON WOODMAN.

*Terms expire in April, 1904.*

AUGUST ARNOLD,  
EDWARD M. BOWMAN,  
JOHN HYATT BREWER,  
BENJAMIN T. FROTHINGHAM,  
WALTER HENRY HALL,  
Mrs. BERNARD PETERS,

HENRY A. PRICE,  
GRAHAM REED,  
G. WARING STEBBINS,  
Miss IDA C. THALLON,  
Mrs. FREDERICK C. TRUSLOW,  
ABRAM RAY TYLER.

*Executive Committee.*WALTER S. CARTER, *Chairman.*

JOHN F. ANDERSON, Jr.,	CARL FIQUÉ,
T. MERRILL AUSTIN,	WALTER HENRY HALL,
H. E. H. BENEDICT,	FRANKLIN W. HOOPER,
JOHN HYATT BREWER,	PERLEE V. JERVIS,
EDWARD M. BOWMAN,	CHARLES H. MORSE,
ARTHUR CLAASSEN,	WILLIAM C. REDFIELD,
R. HUNTINGTON WOODMAN.	

## STANDING COMMITTEES, 1899-1900.

The President and Secretary of the Department, and the Director of the Institute, are members *ex-officio* of the Standing Committees.

*Chamber Music Concerts.*

CHARLES H. MORSE,	HENRY SCHRADIECK,
LOUIS MOLLENHAUER,	WALTER HENRY HALL,
CARL FIQUÉ,	Mrs. ETHAN ALLEN DOTY,
Mrs. DWIGHT P. CLAPP.	

*Orchestral Concerts.*

ARTHUR CLAASSEN,	BENJAMIN T. FROTHINGHAM,
LOUIS KOEMMENICH,	ERNEST BYSTRÖM,
J. E. VAN OLINDA,	Mrs. ANDREW JACOBS,
Mrs. DUDLEY R. ANDREWS.	

*Choral Concerts.*

H. E. H. BENEDICT,	WALTER HENRY HALL,
HOWARD W. CONNELLY,	CHARLES STUART PHILLIPS,
HENRY E HUTCHINSON,	Mrs. BERNARD PETERS,
Mrs. HENRY I. JUDSON.	

*Organ Concerts.*

R. HUNTINGTON WOODMAN,	G. WARING STEBBINS,
HENRY E. HUTCHINSON,	ABRAM RAY TYLER,
E. J. GRANT,	Mrs. MARY WARDELL,
Mrs. H. S. ANDERSON.	

*Lectures.*

CARL FIQUÉ,	Dr. HENRY G. HANCHETT,
FREDERIC REDDALL,	ALBERT MILDENBERG,
W. F. HERBERT,	Mrs. THOMAS F. GOODRICH,
Mrs. ANDREW JACOBS.	

*Piano and Violin Recitals.*

PERLEE V. JERVIS,  
 ERNEST BYSTRÖM,  
 R. W. MIDDLETON,

AUGUST ARNOLD,  
 ALBERT MILDENBERG,  
 Mrs. ALICE JACKSON PARSON,  
 Miss MARY BENSON.

*Membership.*

JOHN F. ANDERSON,  
 W. F. HERBERT,  
 ROBERT A. GAYLER,

GRAHAM REED,  
 ARTHUR R. POLLOCK.  
 Miss MARY BENSON,  
 Mrs. ETHAN ALLEN DOTY.

*Reception Committee.*

WILLIAM C. REDFIELD,  
 FREDERICK E. CRANE,  
 HERBERT S. SAMMOND,

HENRY A. PRICE,  
 EDMUND D. FISHER,  
 Miss ALICE M. JUDGE,  
 Miss IDA C. THALLON.

*Musical Instruction.*

EDWARD M. BOWMAN,  
 AUGUST ARNOLD,  
 JAMES H. DOWNS,

FRANCIS J. MULLIGAN,  
 WILLIAM A. THAYER,  
 Mrs. THOMAS F. GOODRICH,  
 Miss ALICE M. JUDGE.

*Song Recitals.*

T. MERRILL AUSTIN,  
 E. I. HORSMAN, Jr.  
 WILLIAM HEATON,

WILLIAM S. HASKELL.  
 GEORGE F. MORSE,  
 Mrs. A. B. CHANDLER,  
 Mrs. FREDERICK C. TRUSLOW.

## BY-LAWS OF THE DEPARTMENT OF MUSIC.

### ARTICLE I.—OBJECT AND MEMBERSHIP.

The object of the Department shall be the promotion of the art and science of music by means of concerts, recitals, lectures, musical instruction, and by such other methods as may be adopted. Members of the Institute may be enrolled as members of the Department by the Executive Committee, on the recommendation of the Committee on Membership.

## ARTICLE II.—ADVISORY BOARD.

SECTION I.—Subject to the approval of the Board of Trustees and the Council of the Institute, the management of the affairs of the Department shall be vested in an Advisory Board of sixty members, to be composed of musicians and such others as have rendered valuable service in musical work. Regular meetings shall be held on the third Saturdays of October, December, February and April, at four o'clock P. M., the last to be the annual meeting. Special meetings may be called by the President, and must be called by him on the written request of five members. Ten shall constitute a quorum, and any member who fails to attend two successive meetings, without written excuse satisfactory to the Board, thereby renders his office vacant.

SEC. II.—The members of the Advisory Board shall be divided by the Executive Committee into five classes, by lot, nine men and three women in each class: The first class to hold office for five years; the second class for four years; the third class for three years; the fourth class for two years; the fifth class for one year, from April, 1898. Beginning with April, 1899, nine men and three women shall be annually elected by the Advisory Board to fill vacancies existing by the expiration of the terms of office of members.

## ARTICLE III.—OFFICERS AND THEIR DUTIES.

The officers shall consist of a President, First and Second Vice-Presidents, Secretary and Librarian, who shall be elected by the Advisory Board, and shall hold office for one year, or until their successors shall have been chosen. The President shall preside at all meetings of the Department and act as Chairman of the Executive Committee, and in his absence the Vice-Presidents in order shall act in his stead. The Secretary shall record the proceedings of the Advisory Board and of the Executive Committee, and send

out all notices, and perform such other duties as belong to his office. The Librarian shall have charge of the Music Library of the Institute.

#### ARTICLE IV.—EXECUTIVE COMMITTEE.

There shall be an Executive Committee consisting of the officers of the Department, the Director of the Institute, and eight members of the Advisory Board, six of whom shall be professional musicians, who shall be elected by the Advisory Board at the Annual Meeting. This Committee shall execute the will of the Advisory Board and have full power to do all things not herein otherwise specially provided for. Monthly meetings shall be held at such time and place as may be appointed by the President. Five shall constitute a quorum.

#### ARTICLE V.—STANDING COMMITTEES AND THEIR DUTIES.

Standing Committees shall be appointed by the Executive Committee within two days after the Annual Meeting, as follows: Orchestral Concerts, Song Recitals, Chamber Music Concerts, Piano and Violin Recitals, Choral Concerts, Organ Recitals, Lectures, Musical Instruction, Membership and Reception, each to consist of seven members, together with the President and Secretary of the Department and the Director of the Institute, *ex officio*. On or before the first Saturday in April, they shall each report their plans for the coming season, which shall be referred to the Executive Committee; but until the adoption of such report no engagement will be made, except in case of emergency, and only then by authority of the proper Committee and the officers of the Department. The Committee on Membership shall examine into and report upon the qualifications of persons proposed for membership in the Advisory Board, and no person shall be elected thereto except upon the recommendation of two members and the

report of the Committee. The Committee on Reception shall have charge of all concerts and entertainments given under the auspices of the Department.

ARTICLE VI.—AMENDMENTS.

This Constitution may be amended by a two-thirds vote of the Advisory Board, at any regular meeting, provided ten days' notice of the proposed amendment shall have been sent to each member.

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This Department was organized on November 27th, 1891, with fifty-four members. The present membership is one thousand nine hundred and thirty-three, an increase of one hundred and seventy-nine during the past season. The work of the Department has been as follows :

I.—FIVE SONG RECITALS GIVEN ON WEDNESDAY EVENINGS.

**No. 1.** *Oct. 19.*—Miss GERTRUDE MAY STEIN, mezzo-soprano; Mr. FFRANÇON-DAVIES, barytone; Mr. ISADORE LUCKSTONE, accompanist.

PROGRAMME.

1. Modern English Songs: *a* "Before the Dawn," Meyer; *b* "The Royal Red Rose," Lucas; *c* "Prospice," C. Villiers Stamford;

Mr. FFRANÇON-DAVIES.

2. American Songs: *a* "Sweetheart," Chadwick; *b* "The Blue Bell," MacDowell; *c* "I Cannot Help Loving Thee," Clayton Johns;

Miss STEIN.

3. German Songs: *a* "Du bist wie eine Blume," F. Liszt; *b* "Im Kahne," Grieg; *c* "Die beiden Grenadiere," Wagner;

Mr. FFRANÇON-DAVIES.

4. Duet : "Night Hymn at Sea," Goring Thomas ;

Miss STEIN and Mr. FFRANÇON-DAVIES.

5. French Songs: *a* "Sans Toi," D'Hardelot ; *b* "Ouvre tes yeux Bleux," Massenet ; *c* "Song of the Sunshine," Goring Thomas ;

Miss STEIN.

6. Old English Songs: *a* "Blow High, Blow Low," Dibdin ; *b* "Those Evening Bells," Dibdin ; *c* "Here's a Health Unto His Majesty," Dibdin ;

Mr. FFRANÇON-DAVIES.

7. Duet : "Angelus," Chaminade ;

Miss STEIN and Mr. FFRANÇON-DAVIES.

**No. 2. Nov. 2.**—Mme. CHARLOTTE MACONDA, soprano, and Mr. EVAN WILLIAMS, tenor, assisted by Mr. LEO SCHULZ, 'cello ; Mr. ISADORE LUCKSTONE, accompanist.

PROGRAMME.

1. English Songs: *a* "If I Were a Rose," Liddle ; *b* "At Parting," Liddle ; *c* "Spanish Sonnet," McPherson ;

Mr. WILLIAMS.

2. American Songs: *a* "The Robin Sings in the Apple Tree," MacDowell ; *b* "Midsummer Lullaby," MacDowell ; *c* "Irish Folk Song," Arthur Foote ;

Mme. MACONDA.

3. *a* Melodie in F major, Op. 3, No. 1, Rubinstein ; *b* "Serenade," in C major, Haydn ;

Mr. SCHULZ.

4. Duet : "O lass Dich Halten," Jensen-Vogrich ;

Mme. MACONDA and Mr. WILLIAMS.

5. Welsh Songs : *a* "The Stars in Heav'n Are Bright ;" *b* "The Dove ;" *c* "All Through the Night," Old Welsh ;

Mr. WILLIAMS.



6. *a* Andante in E major, Op. 14, Golterman; *b* "Dance of the Sylphs," in D major, Op. 39, Popper;

Mr. SCHULZ.

7. French Songs: *a*—"Tu me dirais," Chaminade; *b* "Nymphes et Silvains," Bemberg; *c* "Elegie" ('cello obbligato), Massenet;

Mme. MACONDA.

8. Duet—"Thus We Will Wander," Brahms;

Mme. MACONDA and Mr. WILLIAMS.

**No. 3.** *Nov.* 23.—Mme. EMMA JUCH, soprano, and M. OVIDE MUSIN, violin; Mr. ISADORE LUCKSTONE, accompanist.

PROGRAMME.

1. "Frauen-Liebe:" *a* "Seit Ich Ihn Gesehen;" *b* "Er, der Herrlichste von Allen;" *c* "Ich kann's nicht Fassen, nicht Glauben;" *d* "Du Ring an meinem Finger," Schumann;

Mme. JUCH.

2. Sonate, C minor, Op. 45, Eduard Grieg;

M. MUSIN and Mr. LUCKSTONE.

3. English Songs: *a* "Should He Upbraid," Sir H. Rowley Bishop; *b* "Love Has Eyes," Sir H. Rowley Bishop; *c* "I'll Sing Thee Songs of Araby," Clay;

Mme. JUCH.

4. Suite in G minor, Op. 26, F. Ries;

M. OVIDE MUSIN.

5. The Jewel Song from "Faust," Gounod;

Mme. JUCH.

6. Introduction and Rondo Capriccioso, Op. 28, Saint-Saëns;

M. OVIDE MUSIN.

7. "Ave Maria," Gounod;

Mr. BREWER, organ; Mr. LUCKSTONE, piano; M. MUSIN, violin, and Mme. JUCH, soprano.

**No. 4.** *Dec 22* (Thursday)—Mr. DAVID BISPHAM, barytone; Miss BERTHA BUCKLIN, violin; Mr. HENRY WALLER and Mr. ISADORE LUCKSTONE, accompanists.

## PROGRAMME.

1. American Songs: *a* "All the World's a Stage," Henry Holden Huss; *b* "Dear Love, when in Thine Arms I Lie," G. W. Chadwick; *c* "There's a Woman Like a Dewdrop," Henry K. Hadley; *d* "Follow Me 'ome," Harry Rowe Shelley; *e* "The Hanging of Danny Deever," Walter Damosch;

Mr. DAVID BISPHAM.

2. Ballade, Op. 16, Moszkowski;

Miss BERTHA BUCKLIN.

3. French Songs: *a* "Chanson," Sauzay; *b* "O, Ma Georgette," Dalayrac; *c* "Open Thy Blue Eyes," Massenet; *d* "Le Chevalier Belle Etoile," Augusta Holmes;

Mr. DAVID BISPHAM.

4. Adagio and Fugue, from G minor Sonate, Bach;

Miss BERTHA BUCKLIN.

5. English Songs: *a* "Mary Hamilton," Frances Allitsen; *b* "The Milkmaid," Mary Carmichael; *c* "Ethiopia Saluting the Colors," Charles Wood; *d* "A Corn Song," S. Coleridge-Taylor; *e* "Spring Song," Parry;

Mr. DAVID BISPHAM.

6. *a* Prize-Song from "The Meistersinger," Wagner-Wilhelmj; *b* Scherzo, "David;"

Miss BERTHA BUCKLIN.

7. German Songs: *a* "Adelaide," Beethoven; *b* "Archibald Douglas," Johann K. G. Loewe; *c* "Sapphische Ode," Brahms; *d* "Der Erlkönig," Schubert;

Mr. DAVID BISPHAM.

**No. 5.** *Jan. 4*—Mlle. CECILE LORRAINE, soprano; M

GUISEPPi CAMPANARI, barytone ; Mr. ISADORE LUCKSTONE, accompanist.

## PROGRAMME.

1. *a* "Tutto Fini," Francesco Quarranta ; *b* "Mio sposa sara la mia Bandiera," A. Rotoli ;

Signor CAMPANARI.

2. "Pleurez, pleurez mes Yeux," (Le Cid) Massenet ;

Mlle. LORRAINE.

3. Prologue from "Pagliacci," Leoncavallo ;

Signor CAMPANARI.

4. Duet from "Pagliacci," Leoncavallo ;

Mlle. LORRAINE and Sig. CAMPANARI.

5. *a* "Non T'amo Piu," Paolo Tosti ; *b* "Lasciali Dir, tu M'ami," Quarranta ;

Sig. CAMPANARI.

6. *a* "Ninon," Old French ; *b* "Returning Spring," Paul Vidal ; *c* "Where'er Love Has Pass'd," Chaminade ;

Mlle. LORRAINE.

7. Duet from the "Pearl Fishers," Bizet ;

Mlle. LORRAINE and Sig. CAMPANARI.

II.—FIVE CHAMBER MUSIC CONCERTS GIVEN ON WEDNESDAY EVENINGS.

**No. I.** Oct. 26. —THE KNEISEL STRING QUARTETTE, of Boston ; Mr. FRANZ KNEISEL, first violin ; Mr. OTTO ROTH, second violin ; Mr. LOUIS SVEDENSKI, viola ; Mr. ALWIN SCHROEDER, 'cello ; assisted by Mr. ARTHUR WHITING, piano.

## PROGRAMME.

1. Quartette in E minor, "Aus Meinem Leben," Smetana ;

STRING QUARTETTE.

2. Sonata for 'cello with piano accompaniment, Pietro Locatelli;  
Mr. ALWIN SCHROEDER.

3. Quintette in E flat major, Op. 44, Schumann;  
Mr. ARTHUR WHITING and STRING QUARTETTE.

**No. 2. Nov. 16.**—THE KALTENBORN STRING QUARTETTE, of New York: Mr. FRANZ KALTENBORN, first violin; Mr. EDWIN WALTHER, second violin; Mr. ERNEST BAUER, viola; Mr. H. BEYER-HANE, 'cello; assisted by Mr. AUGUST KALKHOF, double bass; Mr. CARL WEHRER, flute; Mr. CARL RHEINECKE, clarinet; Mr. JOSEPH ELLER, oboe; Mr. FEDOR BERNHARDI, bassoon; Mr. HERMANN DUTSCHKE, horn.

PROGRAMME.

1. Nonette in F major, Op. 31, Louis Spohr;  
FOR VIOLIN, VIOLA, 'CELLO, BASS FLUTE, CLARINET, OBOE,  
BASSOON AND HORN.

2. Quartette in C major, August Walther;  
STRING QUARTETTE.

3. Octette in F major, Op. 166, Franz Schubert;  
STRING QUARTETTE, BASS, CLARINET, BASSOON AND HORN.

**No. 3. Dec. 7.**—THE SPIERING STRING QUARTETTE, of Chicago: Mr. THEODORE SPIERING, first violin; Mr. OTTO ROEHRBORN, second violin; Mr. ADOLPH WEIDIG, viola; Mr. HERMAN DIESTEL, 'cello; assisted by Miss KATHERINE LINN, piano.

PROGRAMME.

1. Quartette in D major, Op. 64, No. 5, for strings, Haydn;  
SPIERING QUARTETTE.

2. Novelletten in A minor, Op. 29, Gade;  
Miss LINN, piano, Mr. SPIERING, violin, and Mr. DIESTEL,  
'cello.

3. Quartette in C, Op. 59, No. 3, Beethoven;  
SPIERING QUARTETTE.

**No. 4.** *Dec. 29.*—THE ADAMOWSKI STRING QUARTETTE, of Boston; Mr. TIMOTHEE ADAMOWSKI, first violin; Mr. ARNOLD MOLDAUER, second violin; Mr. MAX ZACH, viola; Mr. JOSEF ADAMOWSKI, 'cello; assisted by Mr. ARTHUR FOOTE, piano.

PROGRAMME.

1. Quartette in A minor, Op. 41, No. 7, Schumann;  
STRING QUARTETTE.
2. Trio for piano, violin and 'cello, J. R. Paine;  
Messrs. T. ADAMOWSKI, J. ADAMOWSKI, ARTHUR FOOTE.
3. "Melodie," Paderewski; "Ronde des Lutins," Bazzini;  
Mr. T. ADAMOWSKI.
4. Pianoforte Quartette in C major, Op. 23, Foote;  
PIANO and STRINGS.

**No. 5.** *Jan. 11.*—THE ARNOLD STRING SEXTETTE, of New York; Mr. RICHARD ARNOLD, first violin; Mr. E. C. BAUCK, second violin; Mr. HERMAN KUHN, violin and viola; Mr. EMIL GRAMM, viola; Mr. LEO TAUSSIG, 'cello; Mr. AUGUST KALKHOF, double bass; assisted by Mr. ALEXANDER LAMBERT, piano; Mr. CHARLES KURTH, flute; Mr. JOSEPH ELLER, oboe; Mr. HERMANN DUTSCHKE, horn.

PROGRAMME.

1. Grand Trio in B flat, Op. 52, Rubinstein;  
PIANO, VIOLIN, 'CELLO.
2. Aria in E, J. S. Bach; Minuet in E flat, Boccherini;  
Gavotte, "Le Tambourin," in E minor, Rameau;  
ARNOLD STRING SEXTETTE.
3. Grand Septette, Op. 74, Hummel;  
PIANO, FLUTE, OBOE, HORN, VIOLA, 'CELLO and BASS.

### III.—A SERIES OF FIVE EVENING ORCHESTRAL CONCERTS.

These Concerts were given by the BOSTON SYMPHONY ORCHESTRA, Mr. WILHELM GERICKE, Conductor, under the auspices of the Department of Music of the Institute and the BROOKLYN PHILHARMONIC SOCIETY, and were held at the Academy of Music, on Saturday evenings, with dates and soloists as follows :

**No. 1.** *Nov. 12.*—Soloist, Mr. MORITZ ROSENTHAL, piano.

#### PROGRAMME.

Overture, "In the Spring," Op. 36, Karl Goldmark.

Concerto for Pianoforte, No. 1, in B flat minor, Op. 32, Xaver Scharwenka.

Allegro patetico ; Adagio ; Allegro animato.

Scherzo (Allegro assai).

Allegro non tanto, quasi Adagio ; Allegro molto e passionato.

Symphonic Poem, "Vyšehrad" (No. 1 of the Cyclus, "My Country"), Bedřich Smetana.

Symphony No. 6, in B minor, "Pathétique," Op. 74, Peter Ilyitch Tchaikovsky.

I. Adagio (B minor) - - - - 4-4

Allegro non troppo (B minor) - - 4-4

II. Allegro con grazia (D major) - - 5-4

III. Allegro molto vivace (G major) - 4-4 (12 8)

IV. Finale : Adagio lamentoso (B minor) - 3-4

**No. 2.** *Dec. 17.*—Soloist, Mr. WILLY BURMESTER, violin.

#### PROGRAMME.

Owing to the illness of Mr. GERICKE, the performance was given under the direction of Mr. FRANZ KNEISEL.

Symphony No. 2, in C major, Op. 61, Robert Schumann.

I. Sostenuto assai (C major) - - - 6-4

Allegro ma non troppo (C major) - - 3-4

- |                                       |         |     |
|---------------------------------------|---------|-----|
| II. Scherzo: Allegro vivace (C major) | -       | 2-4 |
| Trio 1 (G major)                      | - - - - | 6-8 |
| Trio 2 (C major)                      | - - - - | 2-4 |
| III. Adagio espressivo (C minor)      | - -     | 2-4 |
| IV. Allegro molto vivace (C major)    | - -     | 2-2 |

Concerto (in one movement) for Violin, in D major, Paganini.

Overture, "Fingal's Cave," Op. 26, Felix Mendelssohn-Bartholdy.

Symphonic Poem No. 3, "The Preludes," Franz Liszt.

**No. 3. Jan. 21.**—Soloist, Mme. SCHUMANN-HEINK, contralto.

PROGRAMME.

Academic Festival Overture, Op. 80, Johannes Brahms.

Agathe's Prayer and Aria, "Wie nahte mir der Schlummer," from "Der Freischütz," Karl Maria von Weber.

Symphonic Variations on an Original Theme, Op. 78, Antonín Dvořák.

Elisabeth's Greeting, "Dich, theure Halle," from "Tannhäuser," Richard Wagner.

Symphony No. 1, in D minor, Op. 44, Robert Volkmann.

- |  |         |     |
|--|---------|-----|
| I. Allegro patetico (D minor)              | - - -   | 4-4 |
| II. Andante (B flat major)                 | - - -   | 3-4 |
| III. Scherzo: Allegro non troppo (D minor) |         | 3-2 |
| Trio: Meno mosso, quasi Andantino          |         |     |
| (D major)                                  | - - - - | 3-2 |
| IV. Finale: Allegro molto (D major)        | -       | 2-2 |

**No. 4. Feb. 25.**—Soloist, LADY HALLÉ (NORMAN NERUDA), violin.

PROGRAMME.

Overture, "Carnival," Op. 92, Antonín Dvořák.

Concerto for Violin, No. 1, in G minor, Op. 26, Max Bruch.

- |   |       |     |
|---|-------|-----|
| I. Allegro moderato (G minor)           | - -   | 4-4 |
| II. Adagio (E flat major)               | - - - | 3-8 |
| III. Finale: Allegro energico (G major) | -     | 2-2 |

Overture-Fantasy, "Romeo and Juliet," Peter Ilyitch Tchaikovsky.

Symphony No. 3, in E flat major, "Eroica," Op. 55, Ludwig van Beethoven.

- |  |         |     |
|--|---------|-----|
| I. Allegro con brio (E flat major)           | - -     | 3-4 |
| II. Marcia funebre : Adagio assai (C minor)  |         | 2-4 |
| III. Scherzo : Allegro vivace (E flat major) |         | 3-4 |
| Trio (E flat major)                          | - - - - | 3-4 |
| IV. Finale : Allegro molto (E flat major)    | -       | 2-4 |

**No. 5.** *Mar.* 25 —Soloist, Mme. TERESA CARREÑO, piano.

PROGRAMME.

Overture to "Sakuntala," Op. 13, Karl Goldmark

Concerto for Pianoforte, No. 2, in D minor, Op. 23, Edward MacDowell.

- |                                   |         |     |
|-----------------------------------|---------|-----|
| I. Larghetto calmato (D minor)    | - -     | 6-8 |
| II. Presto giocoso (B flat major) | - -     | 2-4 |
| III. Largo (D minor)              | - - - - | 3-4 |

Bourré- Fantásque, Emmanuel Chabrier (scored for orchestra by Felix Mottl) First time.

Symphony No. 2, in D major, Op. 73, Johannes Brahms.

- |  |         |     |
|--|---------|-----|
| I. Allegro non troppo (D major)                        | - -     | 3-4 |
| II. Adagio non troppo (B major)                        | - -     | 4-4 |
| III. Allegretto grazioso, quasi Andantino<br>(G major) | - - - - | 3-4 |
| IV. Allegro con spirito (D major)                      | - -     | 2-2 |

IV.—A SERIES OF FIVE MATINEE ORCHESTRAL CONCERTS

These concerts were given by the BOSTON SYMPHONY ORCHESTRA, Mr. WILHELM GERICKE, Conductor, under the auspices of the Department of Music of the Institute and the BROOKLYN PHILHARMONIC SOCIETY, and were held at the Academy of Music on Friday afternoons, with dates and soloists as follows :



**No. 1.** *Nov. 11.*—Soloist, Mr. MORITZ ROSENTHAL, piano.

PROGRAMME.

Overture to "Euryanthe," Karl Maria von Weber.

Prelude, Adagio, and Gavotte en Rondeau, Johann Sebastian Bach (arranged for string orchestra by Sigismund Bachrich).

- |  |       |     |
|--|-------|-----|
| I. Preludio : Allegro (E major)              | - - - | 3-4 |
| II. Adagio (C major)                         | - - - | 3-4 |
| III. Gavotte en Rondeau : Moderato (E major) |       | 2-2 |

Concerto for Pianoforte, in E minor, No. 1, Op. 11, Frederic Chopin.

- I. Allegro maestoso.
- II. Romance, Larghetto.
- III. Rondo vivace.

Symphony No. 5, in C minor, Op. 67, Ludwig van Beethoven.

- |                                     |       |     |
|-------------------------------------|-------|-----|
| I. Allegro con brio (C minor)       | - - - | 2-4 |
| II. Andante con moto (A flat major) | - - - | 3-8 |
| III. Allegro (C minor)              | - - - | 3-4 |
| Trio (C major)                      | - - - | 3-4 |
| IV. Allegro (C major)               | - - - | 4-4 |

**No. 2.** *Dec. 16.*—Soloist, Mr. WILLY BURMESTER, violin.

PROGRAMME.

Owing to the illness of Mr. GERICKE the performance was given under the direction of Mr. FRANZ KNEISEL.

Symphony No. 5, in E minor, Op. 64, Peter Ilyitch Tchaikovsky.

- |  |       |      |
|--|-------|------|
| I. Andante (E minor)                                   | - - - | 4-4  |
| Allegro con anima (E minor)                            | - - - | 6-8  |
| II. Andante cantabile, con alcuna licenza<br>(D major) | - - - | 12-8 |
| III. Valse : Allegro moderato (A major)                | - - - | 3-4  |
| IV. Finale : Andante maestoso (E major)                | - - - | 4-4  |
| Allegro vivace (E minor)                               | - - - | 2-2  |

Concerto for Violin, in D major, Op. 61, Ludwig van Beethoven.

- |                                     |   |   |   |   |     |
|-------------------------------------|---|---|---|---|-----|
| I. Allegro, ma non troppo (D major) | - | - | - | - | 4-4 |
| II. Larghetto (G major)             | - | - | - | - | 4-4 |
| III. Rondo (D major)                | - | - | - | - | 6-8 |

Symphonic Poem No. 1, "Omphale's Spinning-Wheel," Op. 31, Camille Saint-Saëns.

Overture to "Benvenuto Cellini," Op. 23, Hector Berlioz.

**No. 3.** *Jan.* 20.—Soloist, Mme SCHUMANN-HEINK, contralto.

PROGRAMME.

Overture to "Der Freischütz," Karl Maria von Weber.

Recitative, "Ihr Verwegnen," and Aria, "Wie der Felsen," from Act I., "Così fan tutte," Wolfgang Amadeus Mozart.

Waltzes, Op. 39, Johannes Brahms (scored for orchestra by Wilhelm Gericke). First time in Brooklyn.

Recitative, "Abscheulicher! wo eilst du hin?" and Aria, "Komm, Hoffnung, lass den letzten Stern," from "Fidelio," Act I., No. 9, Ludwig van Beethoven.

Symphony No. 4, in B flat major, Op. 60, Ludwig van Beethoven.

- |   |   |   |   |   |     |
|---|---|---|---|---|-----|
| I. Adagio (B flat major)                  | - | - | - | - | 4-4 |
| Allegro vivace (B flat major)             | - | - | - | - | 2-2 |
| II. Adagio (E flat major)                 | - | - | - | - | 3-4 |
| III. Allegro vivace (B flat major)        | - | - | - | - | 3-4 |
| Trio: Un poco meno Allegro (B flat major) | - | - | - | - | 3-4 |
| IV. Allegro ma non troppo (B flat major)  | - | - | - | - | 2-4 |

**No. 4.** *Feb.* 24.—Soloist, LADY HALLÉ (NORMAN NERUDA), violin.

PROGRAMME.

Symphony No. 3, in E flat major, "Rhenish," Op. 97 Robert Schumann.

- |   |     |
|---|-----|
| I. Lebhaft (E flat major) - - - -         | 3-4 |
| II. Scherzo : Sehr mässig (C major) - - - | 3-4 |
| III. Nicht schnell (A flat major) - - -   | 4-4 |
| IV. Feierlich (E flat minor) - - - -      | 4-4 |
| V. Lebhaft (E flat major) - - - -         | 2-2 |

Concerto for Violin, No. 8, in A minor, "Gesangszene,"  
Op. 47, Spohr.

- |                                       |     |
|---------------------------------------|-----|
| I. Allegro molto (A minor) - - - -    | 4 4 |
| II. Adagio (F major) - - - -          | 3-4 |
| III. Allegro moderato (A minor) - - - | 4-4 |

Overture to "Leonore," No 3, Op. 72, Ludwig van Beethoven

Selections from "Siegfried" and "Twilight of the Gods,"  
Richard Wagner (arranged by Hans Richter).

**No. 5. Mar. 24.**—Soloist, MINE. TERESA CARREÑO, piano.

PROGRAMME.

Symphony in D major, "La Chasse," Josef Haydn. First  
time.

- |  |     |
|--|-----|
| I. Adagio (D major) - - - -              | 3-4 |
| Allegro (D major) - - - -                | 4-4 |
| II. Andante (G major) - - - -            | 2-4 |
| III. Menuetto : Allegretto (D major) - - | 3-4 |
| IV. La Chasse (D major) - - - -          | 6-8 |

Concerto for Pianoforte, No. 1, in B flat minor, Op. 23,  
Peter Ilyitch Tchaikovsky.

- |  |     |
|--|-----|
| I. Andante non troppo e molto maestoso<br>(B flat minor) - - - - | 3-4 |
| Allegro con spirito (B flat minor) -                             | 4 4 |
| II. Andantino semplice (D flat major) -                          | 6-8 |
| Allegro vivace assai (D minor) - -                               | 6 8 |
| III. Allegro con fuoco (B flat minor) -                          | 3-4 |

Symphony No. 3, in G major, with viola obligata, "Harold  
in Italy," Op. 16, Hector Berlioz. Viola obligata by Mr.  
FRANZ KNEISEL.

- I. Harold in the Mountains—Scenes of  
Melancholy, Happiness, and Joy :
- |                           |     |
|---------------------------|-----|
| Adagio (G major) - - - -  | 3-4 |
| Allegro (G major) - - - - | 6-8 |
- II. March of Pilgrims, singing their Even-  
ing Hymn :
- |                              |     |
|------------------------------|-----|
| Allegretto (E major) - - - - | 2-4 |
|------------------------------|-----|
- III. Serenade of a Mountaineer of the Abruzzi to his  
Mistress :
- |                                 |     |
|---------------------------------|-----|
| Allegro assai (C major) - - - - | 6-8 |
| Allegretto (C major) - - - -    | 6-8 |
- IV. Orgy of Brigands : Allegro frenetico  
(G minor) - - - - - - - -
- |  |     |
|--|-----|
|  | 2-2 |
|--|-----|

V.—A GRAND CHORAL AND ORCHESTRAL CONCERT.

This concert was given at the Academy of Music, on Wednesday evening, *Nov.* 30, by THE ARION SINGING SOCIETY, Mr. ARTHUR CLAASSEN, conductor; assisted by Mme. STELLA BRAZZI, contralto, and an orchestra of forty musicians, Mr. FRANZ KALTENBORN, concert-master, and Mr. ROBERT THAL-  
LON, organist and accompanist.

PROGRAMME.

- Overture : "Tannhäuser," Wagner ;  
ORCHESTRA.
- "In a Stormy Night," C. Attenhofer ;  
ARION SOCIETY and ORCHESTRA ; Solo, W. JOHN SCHILDGE,  
barytone.
- "Before the Door of the Wigwam," Theo. Stearns ;  
ORCHESTRA.
- Aria : "O Prêtres de Baal" (Le Prophète), Meyerbeer ;  
Mme. BRAZZI and ORCHESTRA.
- "King and the Bard," F. Hegar ;  
ARION SOCIETY.

6. *a* Andante Religioso, Arthur Claassen ; *b* "Sclavonic Dance," Dvořák ; ORCHESTRA.

7. Chorus : " Ah, Do You Remember ? " Carl Fiqué ;  
ARION SOCIETY.

8. *a* " Warum ? " Tschaikowsky ; *b* " The Bird and the Rose," Horrocks ;  
Mme. BRAZZI.

9. Chorus : " My Old Kentucky Home," Foster ;  
ARION SOCIETY.

10. " In the Hall of the Mountain King," E. Grieg ;

11. " The Minstrel's Curse," G. Grunewald ;  
ARION SOCIETY and ORCHESTRA.

VI.—PIANO RECITAL BY MR. MORITZ ROSENTHAL, AT  
THE BROOKLYN ACADEMY OF MUSIC, DEC. 5, 1898.

PROGRAMME.

1. Sonate, A major, Mozart ;
2. Carnival, Op. 9, Schumann ;
3. *a* Berceuse ; *b* Valse, Op. 42, A flat ; *c* Ballade, A flat major ; *d* Valse, D flat major, Chopin ;
4. *a* " Lindenbaum," Schubert-Liszt ; *b* " Papillon ; " *c* " Vienna Carnival," Rosenthal.

VII.—ORATORIO CONCERT : " THE MANZONI REQUIEM."

This concert was given at the Academy of Music on Wednesday evening, February 1st, 1899, by THE BROOKLYN ORATORIO SOCIETY, WALTER HENRY HALL, conductor ; assisted by Mme. MARIE KUNKEL ZIMMERMAN, soprano ; Miss GERTRUDE MAY STEIN, contralto ; Mr. EVANS WILLIAMS, tenor ; Mr. JOSEPH S. BAERNSTEIN, basso, and an orchestra of forty musicians ; Mr. GUSTAV DANNREUTHER, concertmeister.

## VIII.—A SERIES OF FIVE POPULAR MID-WINTER CONCERTS.

**No. 1.** *Jan. 25.*—Mlle. AUS DER OHE, piano; Mr. GWILYM MILES, barytone, Mr. CHARLES STUART PHILLIPS, tenor; Mr. ISADORE LUCKSTONE, accompanist.

## PROGRAMME.

1. *a* "Early Green," *b* "I Ne'er Will Roam From Thee,"  
*c* "Wanderer's Song," Schumann;

Mr. GWILYM MILES.

2. *a* Sonate, G minor, Op. 22, Schumann; *b* "Two Songs Without Words," Mendelssohn; No. 1, F major, Op. 85; No. 2, Spinning Song;

Mlle. AUS DER OHE.

3. "Lend Me Your Aid" (The Queen of Sheba), Gounod;  
Mr. CHARLES STUART PHILLIPS.

4. Scotch Songs: *a* "Lassie Wi' The Lint Locks," *b* "O Hush Thee, My Baby," *c* "My Love is Like the Red, Red Rose," Grant Schaefer;

Mr. GWILYM MILES.

5. *a* "The Sacred Three Springs near Trafoi," Franz Kullak; *b* Suite No. 2, E major, Op. 8, Aus Der Ohe; *c* Nocturne, C sharp minor, Op. 27, Chopin; *d* Valse, E minor, Chopin;

Mlle. AUS DER OHE.

6. *a* "This Only Once," *b* "No Tidings Came from Thee," *c* Serenade, "Don Juan," Tschaikowsky;

Mr. GWILYM MILES.

7. *a* Etude de Concert, D flat, Liszt; *b* Valse Caprice, Taussig;

Mlle. AUS DER OHE.

8. Duet: "Excelsior," Balfe;

Mr. PHILLIPS and Mr. MILES.

**No. 2.** *Feb. 8.*—Mme. BLOOMFIELD-ZEISLER, piano; Mr. DUDLEY BUCK, Jr., tenor; Fräulein GAERTNER, 'cello; Mr. ISADORE LUCKSTONE, accompanist.

## PROGRAMME.

1. English Songs : *a* "Sing, Maiden, Sing," *b* "Dawn, Gentle Flower," S. Bennett ; *c* "The Tempest," Dudley Buck.

Mr. DUDLEY BUCK, Jr.

2. *a* Andante from 'Cello Concerto, A minor, Schumann ; *b* "Tarantelle," G major, Op. 33, Piatti ;

Fräulein GAERTNER.

3. *a* Gavotte and Variations, A minor, Rameau ; *b* "Hark, Hark, the Lark," Schubert ;

Mme. BLOOMFIELD-ZEISLER.

4. Italian Songs : *a* "Moorish Serenade," from "Serenata," Tosti ; *b* "Torna," Denza ;

Mr. DUDLEY BUCK, Jr.

5. Sonate, Op. 111, Beethoven ;

Mme. BLOOMFIELD-ZEISLER.

6. Polonaise de Concert, D minor, Op. 14, Popper ;

Fräulein GAERTNER.

7. *a* Ballade, Op. 23 ; *b* Valse, Op. 70, No. 1 ; *c* Etude, Op. 25, No. 3, Chopin ; *d* Caprice Espagnol, Op. 37, Moszkowski ;

Mme. BLOOMFIELD-ZEISLER.

8. German Songs : *a* "Ich liebe Dich," Grieg ; *b* "The Quiet Waterlily," Fr. Kücken ; *c* "Old Heidelberg, Thou Fair One," Adolf Jensen ;

Mr. DUDLEY BUCK, Jr.

9. Rhapsodie No. 12, Liszt ;

Mme. BLOOMFIELD-ZEISLER.

**No. 3.** *Mus.* 2.—Mr. MAX HEINRICH, barytone ; Mrs. HADDEN ALEXANDER, piano.

## PROGRAMME.

1. *a* "Das Fischermädchen," *b* "Der Tod und das Mädchen," *c* "Krieger's Ahnung," *d* "Frühling's Glaube," *e* "Aufenthalt," Schubert ;

Mr. MAX HEINRICH.

2. Sonata Tragica, MacDowell ;

Mrs. HADDEN ALEXANDER.

3. *a* "Invocation to Sleep," Tschaikowsky ; *b* "Es hat die Rose sich beklagt," *c* "Frühling und Liebe," *d* "Ständchen," *e* "Frühling's Liebe," Franz ;

Mr. MAX HEINRICH.

4. *a* Rhapsodie, Op. 79, G minor, Brahms ; *b* Nocturne, Op. 48, C minor, Chopin ; *c* Romance, Op. 124, Schumann ; *d* "Rigaudon," Raff ;

Mrs. HADDEN ALEXANDER.

5. *a* "Frühling's Ankunft," *b* "Marienwuermchen," *c* "Mondnacht," *d* "Frühling's Lied," *e* "Schneegloeckchen," *f* "Des Knaben Wunderhorn," Schumann ;

Mr. MAX HEINRICH.

6. *a* "Rustic Wedding March," Templeton Strong ; *b* "Dance of the Sylphs," Howard Brockway ; *c* "Tarantelle," Op. 27, Moszkowski ;

Mrs. HADDEN ALEXANDER.

7. *a* "The Hour of Dawn," Mendelssohn ; *b* "What's His Heart," MacDowell ; *c* "It is Not Always May," Gounod ; *d* "Spring Song," Mackenzie ; *e* "Gipsy John," Clay ;

Mr. MAX HEINRICH.

**No. 4.** *Mar.* 16.—Mrs. KATHARINE FISK, contralto ; Mr. FFRANÇON-DAVIES, barytone ; Mr. ISADORE LUCKSTONE, accompanist.

PROGRAMME.

1. Old English Songs : *a* "Love Leads to Battle," *b* "Three Ages of Love," *c* "Ev'ry Bullet Has its Billet," *d* "The British Anchor ;"

Mr. FFRANÇON DAVIES.

2. *a* "Creation Hymn," Beethoven ; *b* "Meine Liebe ist Grün," Brahms ; *c* "Feldeinsamkeit," Brahms ; *d* "Sandmännchen," Brahms ; *e* "Lungi dal Caro Bene," Secchi ;

Mrs. KATHARINE FISK.



3. "Eliland," Fielitz ;

Mr. FFRANGÇON-DAVIES.

4. *a* "Invocation à Vesta," Gounod ; *b* "Si mes vers avaient des ailes," Hahn ; *c* "The Lass With the Delicate Air ;" *d* "The Silver Ring," Chaminade ; *e* "Murmuring Zephyr," Adolph Jensen ;

Mrs. KATHARINE FISK.

5. "Vier ernste Gesänge," Op. 121, Brahms ;

Mr. FFRANGÇON-DAVIES.

6. *a* "Leezie Lindsay," Old Scotch ; *b* "The Rosary," Nevin ; *c* "My Fair Neighbor's Window Curtain," Robert ; *d* "Rockabye, Dearie," J. H. Brewer ;

Mrs. KATHARINE FISK.

7. *a* "Stay, Thou Golden Hour," Jensen ; *b* "Ah, Sweet, My Love, Thou Charmest Me," Brahms ; *c* "Die Lotosblume," Schumann ; *d* "Die Allmacht," Op. 79, No. 2, Schubert ;

Mr. FFRANGÇON-DAVIES.

**No. 5.** *Mar.* 30.—Mr. EDWARD PERRY BAXTER, piano ; Mrs. SOPHIA MARKEE, soprano ; Mr. ISADORE LUCKSTONE, accompanist.

PROGRAMME.

1. *a* Allegro from Sonata, Op. 53, Beethoven ; *b* "Chorus of Dancing Dervishes," Beethoven-Saint-Saëns ;

Mr. PERRY.

2. *a* "The Moon," J. Hook ; *b* "Ye Banks and Braes o' Bonnie Doon," Mrs. H. H. A. Beach ; *c* "Orpheus With His Lute," Arthur S. Sullivan ;

Mrs. MARKEE.

3. *a* "Dryade," Op. 43, Jensen ; *b* "Troll Dance" from "Peer Gynt" Suite, Grieg ; *c* "Dance of the Elves," Op. 3, Sapellnikoff ;

Mr. PERRY.

4. *a* "At Parting," James Rogers ; *b* "Springtide," Reinhold Becker ; *c* The Canzonetta from "Margitta," Eric Meyer-Helmund ;

Mrs. MARKEE.

5. Etudes Nos. 1, 7 and 11, Op. 25, Chopin ;

Mr. PERRY.

6. *a* Were My Song with Wings Provided," Reynaldo Hahn ; *b* "Where'er True Love Has Passed," Chaminade ; *c* Sevillana from "Don Cezar de Bazan," J. Massenet ;

Mrs. MARKEE.

7. "Lützow's Wilde Jagd," Weber-Kullak ;

Mr. PERRY.

#### IX.—A SONG CYCLE, "IN A PERSIAN GARDEN."

This concert was given on Wednesday evening, February 15, and, because of its popularity, repeated on the evenings of March 21 and April 25. The words were selected from the English translation by EDWARD FITZGERALD, of "The Rubáiyat of Omar Khayyám," and the music composed by Mme. LIZA LEHMAN. Part I. of each concert consisted of solo numbers.

**No. 1.** *Feb. 15.*—Miss MARIE DONAVIN, soprano ; Miss ZORA G. HÖRLOCKER, contralto ; Mr. MACKENZIE GORDON, tenor ; Mr. GWILYM MILES, barytone, assisted by Mr. MAX BENDIX, violin ; Mr. ISADORE LUCKSTONE, Musical Director.

#### PROGRAMME OF SOLO NUMBERS.

1. "Revenge, Timotheus Cries," Handel ;

Mr. MILES.

2.

Mr. BENDIX.

3. *a* "Calm as the Night ;" *b* "Thine Only," Bohm ;

Mr. GORDON.

4. Aria from "Linda," Donizetti ;  
MISS MARIE DONAVIN.

5:

Mr. BENDIX.

**No. 2.** *Mar. 21.*—Miss MARTHA MINER, soprano ; Miss ZORA HÖRLOCKER, contralto ; Mr. MACKENZIE GORDON, tenor ; Mr. GWILYM MILES, barytone ; assisted by Mr. FRANZ WILCZEK, violin ; Mr. ISADORE LUCKSTONE, Musical Director.

## PROGRAMME OF SOLO NUMBERS.

1. "The Bonnie Banks of Loch Lomond," Old Scotch ;  
Mr. GORDON.
2. Concerto No. 8, A minor, Spohr ;  
Mr. WILCZEK.
3. Duet : "El Desdichado," Saint-Saëns ;  
Misses MINER and HÖRLOCKER.
4. "To Love, To Suffer," Tircendelli ;  
Mr. MILES.
5. Rondo Capriccioso, Op. 28, Saint-Saëns ;  
Mr. WILCZEK.

**No. 3.** *Apr. 25.*—Mrs. MINNIE METHOT, soprano ; Mrs. TIRZAH HAMLEN-RULAND, contralto ; Mr. MACKENZIE GORDON, tenor ; Mr. GWILYM MILES, barytone ; assisted by Mr. FRANZ WILCZEK, violin ; Mr. ISADORE LUCKSTONE, Musical Director.

## PROGRAMME OF SOLO NUMBERS.

- a. "Le Streghe," Paganini ;  
Mr. FRANZ WILCZEK.
2. Aria : "Penelope ein Gewand wirkend," Max Bruch ;  
Mrs. RULAND.
3. "The Bonnie Banks of Loch Lomond," Old Scotch ;  
Mr. MACKENZIE GORDON.

4. *a* "Love Me or Not," Secchi; *b* "There Was an Ancient King," Henschel;

Mrs. RULAND.

5. "Zapatrado," Sarasate;

Mr. FRANZ WILCZEK.

6. *a* "The Ash Grove," Old Welsh Air; *b* "Spring is Here," Edith Dick;

Mrs. RULAND.

X.—A SERIES OF FIVE CHORAL, SONG AND VIOLIN RECITALS.

**No. 1.** *Mar.* 9.—The APOLLO SIXTEEN, of New York, Mr. WILLIAM R. CHAPMAN, conductor; assisted by Mr. W. C. WEEDEN, tenor; Mr. H. BRIGGS DRAKE, barytone; Miss MARTINA JOHNSTONE, violin; Mr. ÉMILE LEVY and Mr. ISADORE LUCKSTONE, accompanists.

PROGRAMME.

1. "He's the Man," Zöllner;

APOLLO SIXTEEN.

3. Ballade et Polonaise, Vieuxtemps;

Miss JOHNSTONE.

3. *a* "Sleep, Little Baby of Mine," Denne-Smith; *b* "Laughing," Franz Abt;

APOLLO SIXTEEN.

4. *a* "The Four-Leaf Clover," Brownell; *b* "Memoria," Lynnes;

Mr. WILLIAM C. WEEDEN.

5. *a* "Thoughts of Home," C. Kromer; *b* "Manonetta," Meyer-Helmund-Smith.

APOLLO SIXTEEN.

6. "Silent Recollections," Johannes Pache;

APOLLO SIXTEEN.

7. *a* Andante Religioso, Thomé; *b* "Spanish Dance,"  
Rekfeldt;

Miss JOHNSTONE.

8. *a* "Minstrel Song," Hale-Zander; *b* "What I Have,"  
Bohm-Zander;

APOLLO SIXTEEN.

9. *a* "Dreams," Cowen; *b* "This I Would Do," Chap-  
man;

Mr. H. BRIGGS DRAKE.

10. "Arion Waltz," F. A. Vogel;

APOLLO SIXTEEN.

**No. 2.** *April 5.*—CÆCILIA LADIES VOCAL SOCIETY, Mr.  
JOHN HYATT BREWER, conductor; assisted by the Quar-  
tette of the Lafayette Avenue Presbyterian Church: Miss  
MARY H. MANSFIELD, soprano; Mrs. MARIAN VAN DUYN,  
contralto; Mr. BARCLAY DUNHAM, tenor; Mr. HUGH E.  
WILLIAMS, barytone; Miss ELOISE ANTHONY, accompanist.

PROGRAMME.

1. Madrigal, "Nymphs and Shepherds," Purcell;

THE CÆCILIA SOCIETY.

2. *a* "The Rosary," Nevin; *b* "Spring," Tosti;

Mr. WILLIAMS.

3. Part Songs: *a* "The Dream," Rubinstein; *b* "Who is  
Sylvia?" Schubert;

THE CÆCILIA SOCIETY.

4. *a* "Shall I Wed Thee?" Spicker; *b* "Disappointment,"  
Helen Hurd; *c* "My Heart Sings," Chaminade;

Miss MANSFIELD.

5. Glee: "Peasants' Wedding Song," Söderman;

THE CÆCILIA SOCIETY.

6. Ballad, "The Sea and the Moon," John Hyatt Brewer;  
THE CÆCILIA SOCIETY; Soprano Solo, Mrs. ELOISE D. CLARKE.

7. *a* "Thy Name," Mary Knight Wood ; *b* "O, Let Night Speak of Me," Chadwick ;

Mrs. VAN DUYN.

8. Folk Song, "The Scarlet Sarafan," Old Russian ;

THE CÆCILIA SOCIETY.

9. *a* "Spanish Sonnet," MacPherson ; *b* "I Love and the World is Mine," Clayton Johns ;

Mr. DUNHAM.

10. Quartette : "The Lullaby of Life," Henry Leslie ;

Miss MANSFIELD,

Mr. DUNHAM,

Mrs. VAN DUYN,

Mr. WILLIAMS.

11. Part Song : "The Lost Chord," Sullivan ;

THE CÆCILIA SOCIETY.

Miss ELOISE ANTHONY, piano ; Mr. ABRAM RAY TYLER,  
organ.

**No. 3.** *April* 19.—SWEDISH GLEE CLUB and SWEDISH LADIES CHORUS ; Mr. ARVID ÅKERLIND, M.A., conductor ; assisted by Mrs. AGNES STABERG-HALL, soprano ; Miss FLAVIE VAN DEN HENDE, 'cello ; Mr. ERNST BYSTRÖM, piano.

PROGRAMME.

1. March from the Opera, "The Wedding at Ulfasa," Söderman ;  
The SWEDISH GLEE CLUB.

2. *a* "With Thine Blue Eyes," Arlberg ; *b* "Killebukken," Söderman ; *c* "At Even Tide," Körling ;

Mrs. AGNES STABERG-HALL.

3. Sonate, Op. 36, A minor, Grieg ;  
Miss FLAVIE VAN DEN HENDE, 'cello ; Mr. ERNST BYSTRÖM,  
piano.

4. "Heart's Sorrow," Söderman ;

SWEDISH LADIES CHORUS ; SWEDISH GLEE CLUB.

5. "A Summernight," Witt ;  
The SWEDISH GLEE CLUB.
6. *a* "Romance," Godard ; *b* "Dance Espagnole,"  
Popper ; Miss FLAVIE VAN DEN HENDF.
7. *a* "Aftenstemning," *b* "Ingrid's Song," *c* Norwegian  
'Echo Song," Kjerulf ;  
MIS. AGNES STABERG-HALL.
8. Three Old Swedish Dance Songs ;  
The SWEDISH GLEE CLUB.

**No. 4.** *May 3.*—THE PROSPECT HEIGHTS CHORAL SOCIETY, Mr. H. E. H. BENEDICT, conductor ; assisted by Miss MARIE DONAVIN, soprano ; Mr. LEO SCHULZ, 'cello ; Mr. LEWIS DOYLE, accompanist.

PROGRAMME.

1. "Night," J. Blumenthal ;  
CHORAL SOCIETY.
2. Andante from Concerto, Victor Herbert ;  
Mr. LEO SCHULZ.
3. "The Rhine—Raft Song," Ciro Pinsuti.  
CHORAL SOCIETY.
4. Aria, "Ballatella," Leoncavallo ;  
Miss DONAVIN.
5. Hymn to "Music," Dudley Buck ;  
CHORAL SOCIETY.
6. *a* "Romanze," Schumann ; *b* "Spanish Dance,"  
Popper ; Mr. LEO SCHULZ.
7. "Evening" Arthur S. Sullivan ;  
CHORAL SOCIETY.
8. *a* "Sweet Night," Bachelet ; *b* "You and I," Liza  
Lehmann ; Miss DONAVIN.
9. "Song of the Vikings," Eaton Faning ;  
CHORAL SOCIETY.

**No. 5.** *May 17.*—THE BROOKLYN SAENGERBUND, Mr. LOUIS KÖMMENICH, conductor ; assisted by Mrs. ALEXANDER RIHM, soprano ; Mr. HENRY BÄRTELS, barytone ; Mr. MAX KARGER, violin ; Mr. ALEXANDER RIHM, accompanist.

## PROGRAMME.

1. "Die Allmacht," Schubert-Liszt ;  
BROOKLYN SAENGERBUND ; Soprano Solo, MRS. RIHM, and  
PIANO.
2. "Faust Phantasie," H. Wieniawski ;  
MR. MAX KARGER.
3. *a* "Der Landsknecht," *b* "Minneliea," De la Hale-  
Zander ; *c* "Braun Meidelein," Hugo Jüngst ;  
BROOKLYN SAENGERBUND.
4. *a* "Heimliche Liebe," Herman Hutter ; *b* "Wander-  
lied," R. Schumann ;  
MR. HENRY BÄRTELS.
5. "Rudolph von Werdenberg," Ballad, Friedrich Hegar ;  
BROOKLYN SAENGERBUND.
6. *a* "Es hat die Rose sich beklagt," Robert Franz ; *b*  
"Blätter und Lieder," Joachim Raff ;  
MRS. RIHM.
6. *a* "Jessie, die Blume der Au," A. von Othegraven ; *b*  
"Abendfeier," Carl Attenhofer ; *c* "Der Käfer und die  
Blume," W. H. Veit ;  
BROOKLYN SAENGERBUND.
8. *a* "Romanze," *b* "Moto Perpetuo," from Suite, Franz  
Ries ;  
MR. MAX KARGER.
9. "Weihe des Liedes," G. Baldamus ;  
BROOKLYN SAENGERBUND.  
Barytone solo, MR. BÄRTELS ; piano, MR. RIHM.

XI—ORATORIO : "The Light of Asia," by Mr. DUDLEY BUCK.

This concert was held at the Academy of Music on Thurs-  
day evening, April 13th. It was given by the BROOKLYN



ORATORIO SOCIETY, MR. WALTER HENRY HALL, conductor, assisted by MRS. MARIE ZIMMERMANN, soprano; MR. BEN. DAVIS, tenor; MR. GWILYM MILES, barytone, and a full orchestra of forty musicians; MR. GUSTAV DANNREUTHER, concertmeister.

## XII.—MAY MUSICAL FESTIVAL.

This concert was given on Wednesday evening, May 10, at the Clermont Avenue Rink, by the PAUR SYMPHONY ORCHESTRA, Mr. EMIL PAUR, conductor, and the BROOKLYN ARION SINGING SOCIETY, Mr. ARTHUR CLAASSEN, conductor; assisted by Mme. CLEMENTINE DE VERE, soprano, and Mr. EMIL PAUR, piano.

### PROGRAMME.

#### PART I.

1. Overture, "Sakuntala," Goldmark;

ORCHESTRA.

2. Aria from Hamlet, "Mad Scene," Thomas;

Mme. DE VERE.

3. "Landkennung," Grieg;

ORCHESTRA and ARION CHORUS, Mr. CLAASSEN, conductor.

Solo, Dr. JOHN W. SCHILDGE, barytone.

4. Piano Concerto in E flat, Liszt;

Mr. EMIL PAUR, piano, and ORCHESTRA,

Mr. CLAASSEN, conductor.

5. March from Leonora Symphony, No. 5, "Parting," Raff.

ORCHESTRA.

6. *a* "Das Alte Mütterchen," Spicker; *b* "Abschied hat der Tag genommen," Nessler;

THE ARION CHORUS.

7. "Peer Gynt" Suite, Grieg;

ORCHESTRA.

#### PART II.

1. "Die Meistersinger," Introduction, Wagner;

ORCHESTRA.

2. Aria from "Lohengrin," "Elsa's Dream," Wagner;  
Mme. DE VERE and ORCHESTRA.
3. The Two Preludes from "Lohengrin," Wagner;  
ORCHESTRA.
4. Overture, "Rienzi," Wagner;  
ORCHESTRA.

### XIII.—A SERIES OF FIVE LECTURE RECITALS.

1. *Sept. 30.*—Lecture-Recital by Mrs. JEANNETTE ROBINSON MURPHY, of Louisville, Ky., entitled "Slave Songs and Plantation Folk-Lore," illustrated by songs sung by Mrs. MURPHY.

2. *Oct. 8.*—Lecture-Recital by Mr. HENRY E. KREHBIEL, of New York, entitled "Folk-Songs in America," with musical illustrations gathered from original sources by Mr. KREHBIEL, and sung by Mrs. KREHBIEL, soprano, assisted by Miss LOTTA MILLS, pianist.

3. *Oct. 11.*—Lecture-Recital by Mr. CLARENCE T. STEELE, of New York, on "The History of Music." THE ZETHUS MALE QUARTETTE: Mr. JOHN A. YORK, first tenor; Mr. CLARENCE T. STEELE, second tenor; Mr. JOHN J. DOSSERT, first bass, and Mr. EDWARD B. HYDE, second bass, gave Recitals of Madrigals, Part Songs, and Ballads illustrating different periods in Music. This Lecture-Recital was given in the Williamsburgh section of the city, at the New England Congregational Church.

4. *Oct. 12.*—Lecture-Recital by Mr. CARL FIQUÉ, Pianist, Member of the Executive Committee of the Department, on "Melody, and how it is Constructed," with piano illustrations.

5. *Oct. 12.*—Lecture-Recital by Mr. LOUIS C. ELSON, of Boston, on "Shakespeare in Music," illustrated by Song Recitals by Mr. ELSON.

XIV. Three lectures to those interested in "Music and the Teaching of Music," by Mr. W. L. TOMLINS, of Chicago, as follows :

*Oct. 6.*—"Music, Its Nature and Influence."

*Oct. 13.*—"Song and the Singing Voice."

*Oct. 20.*—The Oratorio "The Messiah," Handel.

XV. Lecture by Mr. WILBUR B. LUYSER, on "The Galin-Paris-Chevé Method of Teaching Sight Singing" illustrated by a class of children. Held in Calvary Baptist Church, Sumner avenue and Decatur street.

XVI. A Series of Eight Analytical Piano Recitals by Dr. HENRY G. HANCHETT, Director of the Central School of Music, with dates, subjects and illustrative numbers, as follows :

*Nov. 1.*—"Rhythm." Prelude and Fugue in D major, Bach ; Sonata in C major, Op. 2, No. 3, Beethoven ; Fantasie Pieces, Op. 1, Schaeffer ; Fantasie in C major, Op. 15, Schubert.

*Nov. 8.*—"Melody," Prelude and Fugue in C major, Bach ; Sonata in B flat major, Op. 22, Beethoven ; Maerchen, No. 4, from Suite in G Minor, Op. 162, Raff ; Spinning Song from "The Flying Dutchman," Wagner-Liszt ; Fantasie in Sonata Form, Op. 5, Saran.

*Nov. 15.*—"Imitation." Prelude and Fugue in C minor, Bach ; Pastorale, arranged from the First Sonata for Organ, Guilman ; "Ende von Lied," No. 8, from Fantasie Pieces, Op. 12, Schumann ; "Æolian Murmurs," Gottschalk ; "On the Mountains," Op. 19, No. 1, Grieg ; Sonata in G major, Op. 31, No. 1, Beethoven.

*Nov. 22.*—"Counterpoint." Prelude and Fugue in C minor, Bach ; Toccata di Concert in B major, Dupont ; "Kreisleriana," Op. 16, Schumann ; "Waldesrauschen," Concert Etude, Liszt ; Sonata in D major, Op. 10, No. 3, Beethoven.

*Nov. 29.*—"Sonata Form of Composition." Fragments from the Sonatas, Op. 28, in D major; Op. 10, No. 3, in D major; and Op. 31, No. 3, in E flat major, Beethoven; Sonata in A minor, Op. 42, Schubert; Sonata in E flat major, Mozart; "Aufschwung," No. 2, from Fantasie Pieces, Op. 12, Schumann; Sonata in C major, Op. 53, Beethoven.

*Dec. 6.*—"Concert Music." Nuptial March in E major, Guilmant; Ballade in A flat, Op. 47, Chopin; Sonata Characteristic in E flat, Op. 81, Beethoven; "Vöglein," Op. 43, No. 4, Grieg; "Vogel als Prophet," Op. 82, No. 7, "Kinderscenen," Op. 15, Fantasie, Op. 17, Schumann.

*Dec. 13.*—"Pathos and Humor." Sonata Pathetique in C minor, Op. 13, Beethoven; "The Death of Asa," Op. 46, No. 2; "Norwegian Bridal Party Passing By," Op. 19, No. 2, Grieg; "Woodland Sketches," Op. 51, No. 4, No. 7, No. 8, MacDowell; Sonata in B flat minor, Op. 35, Chopin; "Isolde's Liebestod," Wagner-Liszt.

*Dec. 20.*—"Breadth and Dignity," Organ Fantasie in G minor, Bach-Liszt; Sonata in B flat major, Op. 106, Beethoven; Nocturne in C minor, Op. 48, No. 1, Chopin; Symphonic Etudes, Op. 13, Nos. 1, 2, 6, 7, 8, 9, 11 and 12, Schumann; Fantasie on Themes from "The Ruins of Athens," Beethoven-Liszt.

XVII. In co-operation with the Department of Pedagogy, a series of five lectures by Miss MARI R. HOFER, of Chicago, on "Children's Music and the Training of Children's Voices," and two Song Recitals by the pupils of Public Schools No. 5 and 27, respectively, were given, both of which are fully described under the Department of Pedagogy.

XVIII. A course of instruction by Mr. CARL FIQUÉ, Member of the Advisory Board of the Department of Music, on "Musical Form," was given, with dates and subjects as follows:

*Oct. 19.*—"Song Forms, Simple and Complex." Vocal: "My Country, 'Tis of Thee," "Duke Street;" Schubert's

"Lindenbaum," "Maiden's Lament," and "Adieu;" Mendelssohn, "On Wings of Song," Chaminade, "Madrigal;" Schubert, "Am Meer;" Schumann, "Widmung;" Schubert, "Cradle Song," "Wanderer," and "Dried Flowers."

Instrumental Song Form: Mendelssohn, "Consolation;" Chopin, Nocturne, Op. 9; Thomé, "Simple Aven;" Grieg, "Erotikon."

*Oct. 26.*—"Variations and their Mode of Application." Händel, "Passacaglia;" Beethoven, A flat Sonata, first movement; Mendelssohn, "Variations Sérieuses;" Chopin, "Berceuse;" Beethoven, Andante from Fifth Symphony.

*Nov. 2.*—"The Dance Form." Bach, Gavotte in G minor; Mozart, Minuet in E flat; Beethoven, Scherzo from Seventh Symphony; Chopin, "Funeral March;" Chopin, Waltz in E minor; Scharwenka, "Polish Dance;" Schubert, Impromptu in E flat; Grieg, "On the Mountains;" Brahms, Rhapsody in B minor.

*Nov. 9.*—"Rondo, Canon, Fugue, Harmony and Counterpoint, Introduction and Coda." Beethoven, Sonata Pathétique, and Sonata, Op. 53, last movements; Mendelssohn, Rondo Capriccioso; Jadassohn, Ballet Music in Canon Form; Bach, Fugue in G minor.

*Nov. 16.*—"The Conventional Form of the First Movement of the Sonata." Clementi, Sonatine; Haydn, Sonata in D; Mozart, Sonata in F; Beethoven, Sonata Pathétique, Sonata, Op. 53, and Appassionata.

*Nov. 23.*—"The Other Sonata Movements, Chamber Music, Symphony and Suite." Beethoven, Sonata Op. 27; "Fifth Symphony," Sonata Op. 10; Grieg, Suite in Ancient Style.

*Nov. 30.*—"Concerto, Recitative, Aria, Chorus, Prelude, Entr'acte, Intermezzo and Fantasia." Hummel, Concerto in A minor; Rubinstein, Concerto in D minor; Händel, "And He Shall Purify;" Mozart, Fantasia in C minor; Liszt, "Rhapsody;" Bizet, "Carmen," Entr'acte; Mascagni, Intermezzo from "Cavalleria."

*Dec. 7.*—"The Overture." Mozart, "Don Giovanni; Rossini, "Il Barbiere;" Weber, "Jubel;" Mendelssohn, "Midsummer Night's Dream;" Beethoven, "Egmont;" Rossini, "William Tell;" Wagner, "Lohengrin," "Meistersinger," and "Tristan." "Symphonic Poems."

The course was preceded by a lecture, entitled "Melody and How It Is Constructed," showing the development of a motive into a phrase, a phrase into a section, and the combinations of sections into a melody. Mr. FIQUÉ illustrated his lecture by playing on the piano the following :

1. Motives from symphonies by Beethoven and Schumann.
2. Simple Folk Songs, including "The Last Rose of Summer," "The Old Folks at Home," "Nearer, My God, to Thee," etc.
3. Rubinstein, Melody in F; Haydn, Andante from Surprise Symphony.
4. Tschaikowsky, Chanson sans Paroles; Weber, Prayer from "Freischuetz."
5. Verdi, "Di Quella Pira."
6. Chopin, "Funeral March."
7. Czibulka, Gavotte "Stephanie."
8. Mendelssohn, "Spring Song."
9. Moszkowski, "Serenata."
10. Fiqué, "Albumblatt."

XIX. Under the auspices of the Department of Music four evening classes in Sight Singing were organized with Mr. TALLIE MORGAN, of New York, instructor; one evening and two afternoon classes with Mr. CLARENCE T. STEELE, of New York, instructor; one afternoon class with Mr. W. L. TOMLINS, of Chicago, instructor; two evening classes with Mr. WILBUR A. LUYSTER, of Brooklyn, instructor.

Mr. TALLIE MORGAN's classes met in the large lecture room of the Baptist Temple Society. The first term began October 17th, and continued for ten successive Monday

evenings. The second term began on Monday, January 23d. new classes being formed both for beginners and advanced students. Over three hundred persons enrolled as members.

XX. Mr. CLARENCE T. STEELE'S evening class was held in the Eastern District, at the New England Congregational Church, beginning October 13th. Both elementary and advanced instruction were given, and the class numbered thirty-two members. The afternoon classes were for ladies, and were held at Wissner Hall, 538 Fulton street; the first term beginning October 20th and the second term January 19th.

XXI. Mr. W. L. TOMLIN'S class began on October 27th, and was continued for eight successive Thursday afternoons.

XXII. Mr. WILBUR A. LUYSTER'S classes met at the Calvary Baptist Church, Sumner avenue and Decatur street, on successive Thursday evenings, beginning November 3d. The method used was the Galin-Paris-Chevé method.

The special committee having the organization of these Sight Singing Classes in charge comprised Messrs. EDWARD M. BOWMAN, FRANCIS J. MULLIGAN, WILLIAM A. THAYER, JAMES H. DOWNS, AUGUST ARNOLD, Mrs. THOMAS F. GOODRICH and Miss ALICE M. JUDGE.

The Concerts given by the Department have served two purposes in music, (1) the presentation of the best musical compositions by the best musical talent, and (2) instruction concerning the aims and purposes for which different classes of music have been composed, and the means by which the composer has reached his results.

The average attendance at the forty-two concerts given during the year was 1,148, or a total of 48,220 for the season.

In order to meet the large expenses connected with the Wednesday concerts, and also to prevent the overcrowding of the auditorium in which the concerts are given, admission has been by reserved seat tickets. These were pur-

chased by Members of the Institute at a nominal price of twenty-five or fifty cents for a single concert, or at the same rates for a course of concerts. When all the seats were not taken by Members non-members were allowed to purchase them at \$1 a concert.

At the Philharmonic Concerts, Oratorio Concerts and Piano or Violin Recitals, given at the Academy of Music, lower rates for reserved seats were secured than have been offered heretofore for concerts of so high a grade of excellence.

Since the increased resources of the Department have enabled it to provide unusually attractive and valuable series of concerts during the season of 1898-99, the Advisory Board, anticipating a continued growth of interest in music has arranged for concerts to be given during the season of 1899-1900 that will enable Brooklyn to continue in the first rank of musical centers in America.

The Institute received in 1897 for the Department of Music a large and most valuable gift from the BROOKLYN PHILHARMONIC SOCIETY, an organization which in recent years has united with the Institute in presenting to the public the Philharmonic Concerts by the BOSTON SYMPHONY ORCHESTRA. The gift comprised 6,610 volumes of Choral Works, a list of which was published in the Year Book of 1896-7.

Mr. JAMES A. H. BELL presented the Institute his Library of Music with catalogue complete, a valuable organ and a grand piano in June, 1898.

#### DEPARTMENT OF PAINTING.

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 ROBERT J. PATTISON,  
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*Committee on Certificates of Honor.*

JOSEPH H. BOSTON,	<i>Chairman.</i>
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The Department of Painting was organized on May 26th, 1890, with forty-four members. The present membership is one hundred and ninety six, a gain of thirteen during the year. The proceedings of the meetings of the Department have been devoted to promoting the interests of the BROOKLYN ART SCHOOL, which has been established and conducted in conjunction with THE BROOKLYN ART ASSOCIATION for the purpose of furnishing thorough courses of instruction in drawing, painting, modeling, composition, decorative design and perspective. The studio work of the School comprises classes in Drawing from the Antique, in Still Life, in Portrait Painting, in Composition, in Drawing

and Painting from Life, in Modeling from the Cast and from Life in Decorative Design, in Perspective Drawing and in Sketching. The classes are conducted by the same methods as those pursued in the best Art Schools in Europe and in the Art Students' League. Especial advantages are offered to artists and advanced students in the study and practice of composition. A room devoted to this purpose enables students to begin and carry forward their compositions under the advice and criticism of the instructor. The Life Class Rooms and Portrait Class Rooms are especially large, and all the rooms are abundantly lighted and well ventilated.

A new class was organized in October, 1896, in Decorative Art and Design, with a three years' course of study and with instruction by leading designers in Brooklyn, New York and vicinity, under the direction of Miss S. G. COSTER, Instructor in the Principles of Design.

The location of the School in the Ovington Building, at the corner of Fulton and Clark streets, near the City Hall, renders it easily accessible from all parts of Brooklyn and New York, and from Jersey City by the Annex boat. The school offers particular advantages to students coming from other sections of the country, as living expenses are comparatively low in Brooklyn.

The instructors in this school are Mr. JOSEPH H. BOSTON for the Composition and Life Classes, the Still-life and Portrait Classes, the Costume Classes, the Antique Classes and the Sketch Classes; Miss S. G. COSTER for the Class in Design, and Mr. WILLIAM H. SNYDER, Assistant and Curator.

The Department has furnished a large number of Casts for the classes, and has contributed to the pecuniary support of the School. A students' organization has been maintained for the purpose of promoting the interests of the students. The number of students in the Art School during the year was sixty-four.

The following course of lectures, illustrated by lantern

photographs, was open to all students of the School during the season without additional cost :

I. Six Lectures on "The Prehistoric, Gallic and Early Etruscan Culture in Italy," by Prof. WILLIAM H. GOODYEAR, Curator of Fine Arts of the Institute, fully described under the Department of Archæology.

II. Six Lectures on "Contemporary Painting in Europe and America," by Mr. FREDERIC HOVEY ALLEN, of Boston, fully described under the Department of Fine Arts.

III. Six Lectures on "Painting," by Prof. WALTER S. PERRY, Director of Fine Arts, Pratt Institute, fully described under the Department of Fine Arts.

IV. Three Lectures on "The Qualities Upon Which a Painting Depends as a Work of Art," fully described under the Department of Fine Arts.

V. Six Lectures on "The English Painters," by Miss LOUISE BOTH-HENDRIKSEN, Institute Lecturer on the History of Painting, with subjects and dates as follows :

*Apr.* 11.—"Causes of Late Development of Painting in England ; Growth of Opposite Characteristics ; Realism and Mysticism ; Hogarth and Blake."

*Apr.* 18.—"Portraiture, Genre and Landscape ; Discovery of Man and Nature ; Reynolds and Gainsborough."

*Apr.* 25.—"Development of Landscape ; Wilson, Crome, Constable, Turner ; Love of Light, Air and Color."

*May* 2.—"The Pre-Raphaelites—Their Search for Truth ; Respective Influence of Woolner, Holman Hunt, Millais and Rossetti."

*May* 9.—"Influence of William Morris, John Ruskin and Edward Burne-Jones on Arts and Crafts ; Especial Study of Burne-Jones, Leighton and Watts."

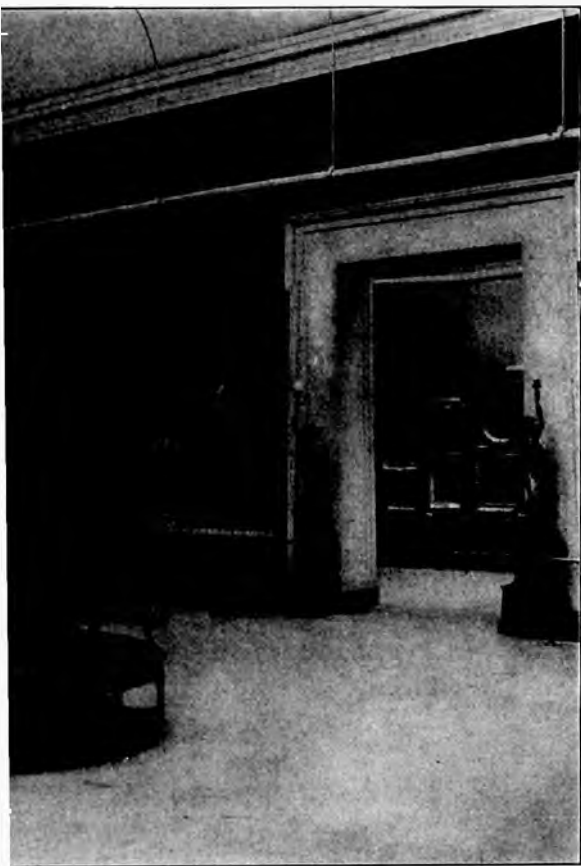
*May* 16.—"Vitality and Versatility at Present ; Divergent Groups of Artists, as those of Glasgow, Norwich, etc ; Chief Living Artists."



"THE SHEPHERDESS." A PAINTING BY RIDGEWAY KNIGHT, PRESENTED BY MR. ABRAHAM ABRAHAM TO THE MUSEUM.



WEST GALLERY OF PAINTINGS.



MUSEUM BUILDING, THIRD FLOOR.

The Ninth Annual Spring Exhibition of the work of Students in the Brooklyn Art School was given in the Studios occupied by the School in the Ovington Building, Fulton and Clark streets, from May 23d until the 27th, 1899. About one hundred and fifty studies were exhibited.

Donations of Paintings to the Department have been made during the year as follows :—

From Mr. J. A. H. BELL :

“Visit to Grandpa,” by CHARLES NAHL.

“Niagara Falls,” by J. F. CROPSY.

“The Merry-makers.”

“Preparing for a Feast,” by GEORGE ARMFIELD.

“The Mourners,” by GEORGE ARMFIELD.

“A Flower Seller of Seville,” by GEORGE H. HALL.

Portrait of John Graham, by CHARLES NAHL.

Portrait of Mrs. John Graham, by CHARLES NAHL.

“Marine View,” by P. J. CLAYS.

“Unconscious Innocence,” by F. BOUCHER.

“Still Life,” by JAN FYT.

“Pastoral Scene,” by FRAIES.

“Hawking Party.

“Street Market at Night,” (a) by CULVERHOUSE.

“Street Market at Night,” (b) by CULVERHOUSE.

“Street Market at Night,” (c) by CULVERHOUSE.

“Woodcock,” by HOLBURTON.

“The Lovers,” by CONSTANTIN BOON.

“Pastoral Scene,” by DESON.

“The Bathers,” by THALLMAN.

“Portia and Narissa,” by BROCKMAN.

Miniature on Ivory, Girl.

Miniature on Ivory, Grandmother.

“Crucifixion.”

From Mr. FRANK SQUIER :

Oil Painting by G. PERKINS, “A Mountain Landscape ” in Peru.

From Mr. WILLIAM T. EVANS:

Portrait of "William Cullen Bryant," by WYATT EATON.

Additions to the Collections of the Department have been made by loan during the year as follows:

From Mr. H. H. BENEDICT, Member of the Board of Trustees of the Institute, twenty-seven oil and water-color paintings.

"Fowl," by MAUVE.

"The Farm," by DAUBIGNY.

"The Plains, Italian Landscape," by INNESS.

"The Sheepfold," by CH. JACQUE.

"Landscape with Cows," by MAUVE.

"The Smugglers," by R. C. MINOR.

"Landscape," by MURPHY.

"Landscape in Sunshine," by MURPHY.

"Landscape," by WYANT.

"Two Peasants," by MILLET.

"Landscape," by MARILLIAT.

"Landscape with Cows," by WM. MARIS.

"Landscape," by RANGER.

"Water Fall," by JACOB RUYSDALL.

"The Mill," by HOBBEEMA.

"A Frosty Morning," by WIGGINS.

"Cow," by MAUVE.

"Sketch," by COROT.

"Desert Landscape, with Lion," by DECAMPS.

"Landscape," by JULES DUPRÉ.

"Landscape," by MAUVE.

"Wood," by DIAZ.

"Oxen," by TROYON.

"Marine," by COURBET.

"Landscape," by Ziem.

Eighty-one etchings were also loaned by Mr. BENEDICT. A list of these etchings is given under Department of Fine Arts.

From C. C. RUTHRAUFF :

Oil Painting, "Italian Ruins," by GIOVANNI PAOLO PANINI.



From Mr. J. A. MURPHY:

Oil Painting by J. VAN OSTADE.

From Mr. MAX SIEFERT:

Oil Painting, "Sunday Devotion," by JOE MILLER.

From Mr. CHARLES H. MILLER:

Oil Painting, "The Bouquet of Oaks," by Mr. C. H. MILLER.

From the Hon. STEPHEN N. GRISWOLD:

Oil Painting, "Adoration of the Virgin and Child."

From Mr. EDWARD A. RORKE, three paintings by THEODORE ROBINSON:

"The Haft on the Tow Path."

"Willows and Wild Flowers."

"New England Brook."

From Mr. W. J. THOMAS:

Oil Painting, "The Enchanted Wood," by W. KEITH.

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MISS EMMA L. JOHNSTON,	<i>Secretary.</i>
MISS JOSEPHINE E. HODGDON, }	<i>Local Secretaries.</i>
MISS MARY MOLOW, }	

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Miss A. E. JOHNSON,	<i>Infant Development.</i>
Prof. EDGAR D. SHIMER,	<i>Mental Traits as Revealed by</i> <i>Physical Signs.</i>
Miss A. E. WYCKOFF,	<i>The Child's Ideals.</i>
Mrs. FRANKLIN W. HOOPER,	<i>Reflex of School Life in the Home.</i> <i>The Difficulties of Children.</i>
Prof. JOHN F. REIGART,	<i>Psychology in the Class Room.</i>
Miss EDNA PATEMAN,	<i>Plays and Games of Children.</i>
Assoc. Supt. JOHN H. WALSH,	<i>Bibliography of Educational Psy-</i> <i>chology.</i>

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WALTER S. PERRY.	PERCIVAL CHURCH.
FREDERICK J. BOSTON.	RALPH W. ALLEN.
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ARTHUR H. FLINT.	MARY A. HURLBUT.
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Miss EMMA L. JOHNSTON.	Mrs. FRANKLIN W. HOOPER.
Miss LUCILLA E. SMITH.	Miss LUCY T. LEWIS.

The Department of Pedagogy was organized on February 26, 1892, with a membership of one hundred and fifty-eight. Its present membership is six hundred and ninety-six.

The purpose of the Department, as expressed in its Constitution, is "to promote knowledge of the science and the art of education." The work of the Department comprises :

1. Addresses on educational questions of large and general import.
2. General courses of lectures on subjects in the curricula of studies and on the methods of teaching.
3. Systematic courses of instruction, with directions for reading and study.
4. Conferences and object lessons in teaching.
5. The establishment of a Library of Pedagogy.
6. The formation of a Pedagogical Museum as a part of the Museum of Arts and Sciences.

The work as above designated is conducted under the direction of the Executive Board, by the following standing committees :

1. Committee on Lectures.
2. Committee on Educational Literature.
3. Committee on Library and Museum.
4. Committee on Educational Psychology.
5. Committee on Kindergarten.
6. Committee on Manual Training.
7. Committee on Art Education.
8. Committee on Teaching Music.
9. Committee on the History of Education.
10. Committee on Methods of Education.
11. Committee on Physical Culture.
12. Committee on Reading Circles.

Each committee has regularly appointed meetings for the consideration of matters pertaining to its own individual work, and members are cordially invited to become active members of such committees as they may elect. An account of the work done under the auspices of the Department and its several standing committees during the past year is given below.

#### GENERAL MEETINGS OF THE DEPARTMENT.

A course of six lectures under the auspices of the Departments of Pedagogy and Psychology, by Prof. MARTIN V. O'SHEA, PH.D., of the University of Wisconsin, on the "Psychology of Children," as follows :

*Oct. 19.*—"Some Applications of Modern Biology, Psychology and Child Study to Teaching."

*Oct. 26.*—"The Psychology of Suggestion and its Importance in the Training of Children."

*Oct. 29.*—"Dullness and Viciousness in the Home and School ; Some Fundamental Causes and Remedies."

*Nov. 2.*—"The Physical Expression of the Intellect and the Character in Childhood."

*Nov. 5.*—"Children's Expression through Language and Drawing."

*Nov. 9.*—"The Evolution of the Soul in Childhood and Youth. Some Data from Biology, Psychology and Anthropology, with Practical Applications."

A course of six lectures under the auspices of the Departments of Pedagogy and Psychology, by Prof. HUGO MÜNSTERBERG, PH.D., of Harvard University, on "The Aims and Methods of Modern Psychology," as follows:

*Nov. 12.*—"The Work of Psychological Laboratories."

*Nov. 19.*—"The Study of Insanity and Hypnotism."

*Nov. 26.*—"Child Study and its Relation to Education."

*Dec. 3.*—"The Development of the Mind in Men and Animals."

*Dec. 10.*—"The Relations of the Mind and the Brain."

*Dec. 17.*—"The Philosophy of the Soul."

A course of five lectures, by Miss MARI R. HOFER, of Chicago, on "Children's Music, and the Training of Children's Voices." These lectures were given in co-operation with the Department of Music, on the following dates and subjects:

*Nov. 21.*—"Song in Child Life; its Meaning in Early Education."

*Nov. 28.*—"The Interpretation of Songs; Music Picture Making."

*Dec. 5.*—"The Child Voice; the Application of Vocal Principles."

*Dec. 9.*—"The Music Language and How to Present it to Children."

*Dec. 12.*—"Christmas Music for Children."

Besides the foregoing courses, the following special lecture was given :

*Dec. 7.*—Lecture by Prin. HOMER C. BRISTOL, on "The Geography and Scenery of Southern California," illustrated by lantern photographs.

#### EDUCATIONAL PSYCHOLOGY.

Under the auspices of the Committee on Educational Psychology, Mrs. FRANKLIN W. HOOPER, Chairman, were held six conferences on data contained in the reports of several sub-committees appointed to make special studies and observations. The conferences were held on the second Thursday afternoon of each month, and on the following dates and subjects :

*Oct. 13.*—"The Memory ; its Use and Abuse." Paper by Mrs. FRANKLIN W. HOOPER, Chairman of the Section.

*Nov. 10.*—"Activity as a Law of Childhood." Paper by Mrs. JOHN S. MCKAY.

*Dec. 15.*—"The Moral Development of Children." Paper by Prof. FREDERICK W. OSBORN, M.A., of Adelphi College.

*Jan. 12.*—"The Fundamental Principles of Froebel's Method."

*Feb. 9.*—"The Child's Idea of Money." Paper by Mrs. ROBERT H. DODD.

*April 13.*—"Music and the Child."

*May 11.*—"The Child's Ideal as Related to the General Social Ideal." Paper by Prin. FREDERICK L. LUQUEER, PH.D.

These conferences were attended by from forty to sixty persons, and many of those present contributed data bearing on the subjects under consideration.

#### ART EDUCATION.

Under the auspices of the Section on Art Education, Prof. WALTER S. GOODNOUGH, Chairman, the following



lectures and papers were presented and conferences and meetings held :

*Oct. 20.*—Conference on "The Uses of a Public Museum as an Educational Force." Opening paper by Mr. GEORGE S. KELLOGG, of the Metropolitan Museum of Art.

*Jan. 19.*—Lecture by Mr. ALLEN B. DOGGETT, of the Erasmus Hall High School, on "An Illustrative Tour in Holland," illustrated by lantern photographs.

*Mar. 16.*—Conference on "How Can the Course in Art Instruction in the Public Schools Develop the Creative Faculty?" Opening paper by Miss STELLA SKINNER, Director of Art Instruction, New Haven Public Schools, illustrated by drawings made by the pupils of the New Haven Public Schools.

*Apr. 20.*—Lecture by Col. JOHN Y. CULYER, C.E., Landscape Architect, on "Openings for Art Students in Landscape Architecture."

*Apr. 8.*—Under the auspices of the Departments of Pedagogy and Fine Arts, an Exhibition of Water Color Paintings, by Miss EMELINE A. DUNN, was held at the Art Galleries, 174 Montague street, for two weeks in May.

The Third Annual Exhibition of "Works of Art Suitable for the Decoration of School Rooms" was held in the Galleries of the Art Association Building, on Montague street, under the auspices of the Section on Art Education of the Department of Pedagogy, from November 2d until November 16, 1898.

A Catalogue of the Exhibition was published and contained four hundred and sixty-two entries.

The arrangements for this Exhibition were made chiefly by a Special Committee of the Section on Art Education, comprising Prof. WALTER S. GOODNOUGH, Chairman; RALPH W. ALLEN, VICTOR I. SHINN, Col. JOHN Y. CULYER, ARTHUR H. FLINT, Miss ANNIE L. YOUNG, Miss MARY A. HURLBUT and Miss JULIA B. HALLOCK.

By reason of arrangements made by the Section on Art Education, the New York State Art Teachers' Association held its semi-annual Convention in the Art Galleries on February 9th, 10th and 11th, and in conjunction with the Department of Pedagogy held two conferences on February 10th and 11th.

The Section on Art Education also arranged to have the First Annual Convention of the Eastern Art Teachers' Association held in the Art Galleries in Montague street on May 24th, 25th and 26th in conjunction with the Institute.

#### THE KINDERGARTEN SECTION.

Under the auspices of this Section, Miss FANNIEBELLE CURTIS, Chairman, the following meetings were held :

*Jan. 5.*—Lecture by Miss SARAH E. BRASSILL, Director of Science Teaching, of Cambridge, Mass., on "Nature Study for the Kindergarten."

*Feb. 23.*—Address by Miss AMALIE HOFER, of Chicago, Editor of the *Kindergarten Magazine*, on "Why I Am a Kindergarten."

#### THE SECTION ON MUSIC TEACHING.

Under the auspices of this Section, Mr. FRANCIS J. MULLIGAN, Chairman, two Song Recitals by the Pupils of the Public Schools were given, as follows :

*Apr. 6.*—Song Recital by the pupils of the Grammar and Intermediate Grades of Public School No. 5, Mr. WILLIAM J. O'LEARY, Principal, assisted by Mrs. HELEN O'DONNELL, contralto, and Miss MARJORIE PARKER, pianist ; Mr. BERNARD O'DONNELL, Musical Instructor.

*Apr. 27.*—Song Recital by the pupils of the Primary Department of Public School No. 27, Mr. ELMER POULSON, Principal ; Mrs. BERENICE THOMPSON, Musical Director, assisted by Mr. CHARLES T. CATLIN, Reader ; South Congregational Church.

## THE SCHOOL OF PEDAGOGY.

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During the season of 1897-8, a large number of written and verbal requests were received at the office of the Institute from teachers and those who are preparing to teach, that the Institute should establish courses of instruction in "The History of Education," "The Principles of Education," "Psychology as Applied to Teaching," "Methods of Teaching," "School Management and Discipline," and other subjects of special interest to teachers. It was represented by those who made these requests of the Institute that it was impracticable if not impossible for teachers who desired to pursue professional courses of instruction in the School of Pedagogy connected with the University of New York and in the Teachers' College connected with Columbia University to avail themselves of instruction given in those institutions, owing to the fact that they are removed so far from Brooklyn and that the labor of traveling to and from consumes more time and strength than they have to spare outside of their school work.

In response to these requests the Departments of Pedagogy and of Psychology of the Institute appointed a joint committee to take into consideration the communications that have been received, and to organize, if possible, courses of instruction to meet the apparent demand. The committee appointed consisted of Prin. ALMON G. MERWIN, PD.D., Assoc. Supt. WILLIAM L. FELTER, PH.D., Prin. L. H. WHITE, PH.D., Assoc. Supt. CLARENCE E. MELENEY, Miss SARAH E. SCOTT, M.A., and Miss EMMA L. JOHNSTON, of the Teachers' Training School; Prin. JAMES M. EDSALL, Prin. W. L. SPRAGUE, Prof. WALTER L. HERVEY, PH.D., Prin. WILLIAM A. MCANDREW, Prof. FREDERICK W. OSBORN, M.A., and Prin. JAMES J. McCABE. This committee held several

meetings during the months of April and May; had conferences with the Hon. SETH LOW, LL.D., President of Columbia University; Prof. JAMES E. RUSSELL, Dean of the Teachers' College; Prof. EDWARD R. SHAW, Dean of the School of Pedagogy, New York University; Prof. EDWARD F. BUCHNER, Professor of Psychology in the New York School of Pedagogy; with Mr. EDWARD G. WARD, Superintendent of Schools of the Borough of Brooklyn; WILLIAM H. MAXWELL, PH.D., Superintendent of Schools of New York City, and others. As a result of the deliberations and conferences held by the committee, conclusions were reached, with regard to the courses of study most desirable, and it was finally determined to establish a SCHOOL OF PEDAGOGY under the auspices of the Institute to open in October, 1898, in conjunction with the Teachers' College of Columbia University, the School of Pedagogy of New York University, and the courses for Teachers of Adelphi College. The courses of instruction were to be identical with those that are given in the Teachers' College, the New York School of Pedagogy, and Adelphi College in the following subjects: "The Principles of Education," "The History of Education," "Applications of Psychology to Teaching," "The Institutes of Pedagogy," "General Psychology," "School Management and Discipline," "English Literature," "German Literature," "French Literature," "History," "Physics" and "Biology."

The instruction was to be given, for the most part, by the instructors in the Teachers' College, the New York School of Pedagogy, and Adelphi College, and on the terms and conditions that apply to admission to courses of instruction in those institutions, respectively.

A pamphlet announcement of the School of Pedagogy was published in September, and copies of it were distributed among the teachers residing in the Boroughs of Brooklyn, Queens and Richmond, in the City of New York.

## COURSES OF INSTRUCTION

*Offered in 1898-9, in Co operation with*

THE TEACHERS' COLLEGE OF COLUMBIA  
UNIVERSITY.

**I. The History of Education.** Lectures, essays and discussions. Prof. JAMES E. RUSSELL, PH.D., W. B. ELKIN, PH.D., and FREDERICK D. SHERMAN, PH.D., of the Teachers' College. A Two Years' Course. Thirty sessions each year of an hour and a half each. Art Building, 11 A. M., Saturdays, beginning October 8th.

In the first year of this course the chief types of ancient education—Egyptian, Chinese, Hebrew, Greek, and Roman—are presented in the light of the history of civilization; the continuation of the course in the second year gives special attention to the interaction of Greek, Roman and Christian influences in forming the educational ideals and shaping the school systems of mediæval and modern times. A part of the course is devoted to the reading and discussion of selections from the ancient classics and the works of later writers on education.

Required in the last year of the course of all candidates for a Teachers' College diploma.

Tuition Fee, \$15.00.

**II. Principles of Education.** Lectures, essays, discussions. Prof. NICHOLAS MURRAY BUTLER, PH. D., Director of the Course; JOHN A. MACVANNEL, PH D, of the Teachers' College, Lecturer and Instructor. A Two Years' Course. Thirty sessions each year of an hour each. Art Building, Mondays, 4:00 P. M., beginning October 3d.

This course aims to lay the basis for a scientific theory of education considered as a human institution. The process of education is explained from the standpoint of the doctrine of evolution, and the fundamental principles thus arrived at are applied from the threefold standpoint of the history of civilization, the developing powers of the child, and the cultivation of individual and social efficiency. During a portion of the course, BUTLER'S *Meaning of Education*. HARRIS'S

*Psychologic Foundations of Education*, and ROSENKRANZ'S *Philosophy of Education* are used as texts and books of reference.

Required of all fourth-year students who are candidates for the Teachers' College diploma in secondary and elementary teaching.

Tuition Fee, \$10.00 per year.

### III. Applications of Psychology to Teaching.

Lectures, discussions, essays and collateral reading. Prof. FRANK M. MCMURRY, PH.D., of the Teachers' College. A One Year's Course. Thirty sessions of one and one-half hours each year. Art Building, Saturdays, from 9:30 to 11 A. M., beginning on October 8th.

This course is concerned with both the science and art of education ; with the science so far as it is dependent upon the laws of mental development ; with the art so far as it involves the application of these laws in observing, planning, and teaching a lesson. The special aim is the development of a scientific method of the recitation and the application of the principles of method to individual studies and to standard text-books.

Required of all candidates for a Teachers' College, or departmental diploma.

Tuition Fee, \$15.00 per year.

### IV. School Supervision and Management. The

Practical Problems of School Economy. Lectures, essays, and discussions. Supt. CHARLES GILBERT, of Newark. (Invited to give this course.) One Year's Course. Thirty sessions of one hour each. Art Building, Wednesdays, at 4:00 P. M., beginning on October 5th.

This course includes work in school criticism and discipline ; observation and study of typical school conditions, school organizations, departments, classification, courses of study, school appliances, school construction and sanitation. Attention will be given to the duties of principals in the supervision and management of graded schools, both as to material and educational interests. Special study will also be made of the duties of the school superintendent ; departmental business relating to the school board, appropriations and expenditures, buildings, plans, construction, sanitation, and equipment ; professional work in organization, visitation, inspection, direction, instruction, classification, including the superintendent's relation to the

regular and special teachers, and his responsibility in the selection and training of teachers.

Tuition Fee for the Course, \$10.00. This course was not given in 1898-9.

The foregoing courses are precisely the same as those given in the Teachers' College of Columbia University, Manhattan. Examinations will be given to those who take the courses at the end of each year and at the end of each course. Those who complete a course satisfactorily will be given a certificate stating what work has been done, and also will be credited by the Teachers' College of Columbia University, with the course towards the Diploma of the College.

The qualifications for admission to the foregoing courses are any one of the following: (1) The holding of Teachers' B Certificate in Brooklyn, or Teachers' License No. 1 in Manhattan, or a higher Teachers' Certificate in Brooklyn or Manhattan, from the City Superintendent of Public Instruction. (2) Graduation from a Normal School. (3) A Four Years' High School Course and one year's professional training in Pedagogy in a Normal School, or a College or University.

## COURSES OF INSTRUCTION

*Offered in 1898 9, in Co-operation with*

### THE SCHOOL OF PEDAGOGY OF NEW YORK UNIVERSITY.

**V. The Elements of Pedagogy.** Lectures, essays, discussions. Prof. EDWARD R. SHAW, PH.D., Dean of the New York University School of Pedagogy. A One Year's Course. Two sessions a week of one hour each for thirty weeks. Art Building, Tuesday evenings, at 8 o'clock, and Friday afternoons, at 4 o'clock, beginning on Friday afternoon, October 7th.

This course begins with a discussion of the principles of teaching which should be employed in order to make the fullest appeal to the self activity of the child, and then points out the application of these principles in the teaching of subjects in the elementary school. The orderly and pedagogical steps to be followed in teaching Arithmetic, Reading, Spelling, Writing, Form, Geometry, Geography, Drawing, Nature Study, History, Literature, Physiology, and Manual Work are presented. The co-ordination of these subjects is considered, and the interrelation of the different groups of studies, as well as the interrelation of the studies of the same group, are definitely traced. Students in this course are required to make observation in the School of Application, as well as in other schools, and to give frequent lessons. The plans and presentation of these lessons are fully and freely discussed in order to develop the inventive, directive and critical powers of the student.

The course is planned in order to aid those intending to become principals of training schools, teachers of method, etc.

Tuition Fee for the Course, \$15.00

**VI. Analytical Psychology.** Lectures, essays, discussions. Prof. EDWARD F. BUCHNER, PH. D., of the New York University School of Pedagogy. A Two Years' Course. Two weekly sessions for thirty weeks each year. Tuesday and Thursday afternoons, at 4 o'clock, beginning on Thursday afternoon, October 6th.

This course undertakes a thorough and systematic study of the functions and phenomena of consciousness from the scientific point of view, with the specific aim of giving the student a working conception of the human mind, based upon the results of introspective and experimental investigations. The nature of psychological science and its methods, the description of the elements of consciousness, and an explanation of the laws controlling the various forms of mental development constitute the topical outlines of study.

The conclusions of psychological science are given a general historical and philosophical interpretation in one direction, and a special practical and theoretical application to pedagogy in the other. The conception and problems of education and the training of mental faculty are constantly regarded in the light of the facts of psychological development as supplying the data for their solution.

The lectures, one hour weekly, proceed upon the basis of some treatise on psychology, selected as a suitable text at the beginning of



the year, and are supplemented in the three remaining hours by a critical comparison of the views of the leading modern authorities. Each student is expected to select some psychologist and to be responsible for a presentation of his views in the class. The discussions are also aided by papers on various themes written by members of the class and reports from the periodical contribution to psychological literature.

Tuition Fee, per year, \$15.00 ; for the Course, \$30.00.

**VII. School Organization, Management and Discipline.** Lectures, essays, discussions. **FREDERICK MONTESSER, PH.D.**, of the New York University School of Pedagogy. A One Year's Course. Thirty sessions of one hour each for thirty weeks, Wednesday afternoons at 4 o'clock, beginning October 5th.

1. School buildings, grounds, lighting, heating, ventilation, furniture, sanitation, apparatus and equipment, discussed with reference to the best standards and the reasons which determine these. The practical application of these standards. Students will be required to make tests of ventilation in certain accessible schools, determining by means of the anemometer the number of cubic feet of air entering the room per minute for each pupil, the number of cubic feet passing out, the temperature and humidity of the air of the room, the impurity as denoted by the proportionate amount of carbonic acid gas present. 2. A study of the course of instruction, methods of teaching, working directions, grading, management, and administration of a system of schools. The study will be made by visits of observation, by written reports, and by discussion.

Tuition Fee for the Course, \$10.00. This Course was not given in 1898-9.

The Courses V., VI. and VII. are given precisely as they are given at the New York School of Pedagogy, Manhattan. Examinations will be given at the end of each year and at the end of each course. Those who complete a course satisfactorily will be given a certificate stating what work has been done, and also will be credited by the School of Pedagogy of New York University with the course towards a Diploma or Degree granted by the University.

The qualifications for admission to Courses V., VI. and VII., under the co-operation of the School of Pedagogy of New York City, are any one of the following: (1) the holding of a Teachers' B Certificate in Brooklyn, or a Teachers' License No. 1 in Manhattan, or a higher Certificate from the City Superintendent of Public Instruction. (2) Graduation from a State Normal School. (3) A Four Years' Course in a High School and one year's professional training in Pedagogy in a Normal School or a College or University.

Candidates for a Degree in the School of Pedagogy must present a diploma from a College of Art and Science, or from a Normal School higher course, or testimonials of general scholarship equal to that required for such a diploma.

## COURSES OF INSTRUCTION

*Offered in 1898-9, in Co-operation with*

### TEACHERS' COURSES IN ADELPHI COLLEGE.

Courses of Instruction in English Literature under Miss ELINOR M. BUCKINGHAM, B.A.; in French Language and Literature under Prof. VIOLETTE E. SCHARFF; in German Language and Literature under Prof. MAX F. BLAU, M.A., PH.D.; in Greek Language and Literature under Prof. WILLIAM CRANSTON LAWTON, B.A.; in Latin Language and Literature under Prof. JOHN A. SANFORD, PH.D.; in Mediæval History under Prof. A. G. FRADENBERG, PH.D.; in Philosophy and Ethics under Prof. FREDERICK W. OSBORN, M.A.; in Physics under Prof. WILLIAM C. PECKHAM, M.A.; in Chemistry under Prof. WILLIAM W. SHARE, PH.D.; in Biology under Prof. ELIZABETH V. GAINES.

The foregoing courses are given at Adelphi College at hours in the afternoon or on Saturday mornings when

teachers in active service are able to attend. The conditions and terms of admissions to these Courses may be learned by applying to Adelphi College.

#### GENERAL INFORMATION CONCERNING THE SCHOOL OF PEDAGOGY.

Persons desiring to register for any Course of Instruction may do so at the office of the Institute, 502 Fulton street, or at the Art Building in Montague street, previous to the opening session of a class.

Tuition Fees must be paid in advance and at the time of Registration. For Members of the Institute there is a reduction of \$2.00 in the amount of the Fee for a Course given in conjunction with the Teachers' College of Columbia University or the School of Pedagogy of New York University.

For blank forms of certificates of admission to classes in the School of Pedagogy or for further information, apply to Prof. FRANKLIN W. HOOPER, M.A., at the Institute office, 502 Fulton street, Brooklyn, between 9 and 12 A.M. or between 2 and 6 P.M.

#### REQUIREMENTS FOR TEACHERS' LICENSE NO. 2 OR GRADE A, AND FOR LICENSE AS HEAD OF DEPARTMENT.

'The 'Minimum Requirements for Teachers' Licenses,' adopted by the Board of Education, provide 'that teacher's license No. 2, or Grade A, may be issued to the holder of teacher's license No. 1, or Grade B, who has had successful experience in teaching for four years, who produces evidence of having successfully pursued, in some recognized institution of learning, a course of study, satisfactory to the City Superintendent, in some branch of science or of literature or in professional work, since his or her employment as a teacher, or who passes a satisfactory examination in principles and methods of teaching.'

"The requirements for license as Head of Department or assistant to principal, read as follows:

"A license to teach as Head of Department or Assistant to Principal may be granted to the holder of a temporary teacher's license No. 2, or Grade A, or a permanent teacher's license No. 2, or Grade A, or to a person who has complied with the conditions required for

such licenses, who has had not less than eight years' successful experience in teaching, who passes an examination in principles of education, methods of teaching, and school management, and who produces evidence of having pursued a course of study, satisfactory to the City Superintendent, in the science of education and in some branch of literature, science, or art, in a recognized institution of learning, either during the school year for at least two years, or at a university or normal summer school during at least two sessions of not less than six weeks each; or who, in lieu of such course of study, passes an examination in one of the following subjects: English language and literature, history and civics, elementary science."

To secure exemption from the examination for license No. 2, or Grade A, the applicant must pursue a course of study at least equivalent to the following: (1) Two hours a day for at least five weeks (after 1898, for six weeks), five days each week, during the summer vacation; or, (2) Two hours a week for thirty weeks during one school year.

To secure exemption from the scholastic part of the examination for license as head of department or assistant to principal, the applicant must pursue a course of study at least equivalent to the following: (1) Two hours a day for at least six weeks, five days a week, during two summer vacations; or (2) Two hours a week for thirty weeks during two school years.

It is recommended that two courses, one scholastic, the other professional, should be pursued simultaneously, an equal amount of time being devoted to each course.

As evidence of a teacher's work in the past, a certificate of successful work, signed by an officer of the institution in which a course of study was taken, will be accepted. Hereafter, however, the applicant for a license, in order to secure credit for a course of study, must present, for the approval of the City Superintendent, a note book, or note books, properly authenticated by the teacher in charge of the course, containing the applicant's notes of lectures, conferences, experiments, and laboratory work, and abstracts of or comments on books, or portions of books, or other documents, assigned for reading, together with a certificate of attendance for the full period required by these rules.

This evidence should be presented to the City Superintendent not later than September 1, each year.

*Extract from Circular issued by Dr. WM. H. MAXWELL,  
City Superintendent of Public Instruction, June 24, 1898.*

RULES AND REGULATIONS OF THE BROOKLYN SCHOOL BOARD WITH REGARD TO GRADE A AND HEAD OF DEPARTMENT CERTIFICATES.

2. To obtain a permanent A certificate the applicant must be the holder of a permanent B certificate, must have had four years of successful experience, and must pass such an examination in principles and methods of teaching as the City Superintendent of Schools may prescribe.

The holder of a temporary B certificate may obtain a temporary A certificate by passing the examination prescribed for a permanent A certificate, provided he or she has had experience in teaching equivalent to an experience of four years in the Brooklyn Schools.

In lieu of the said examination, the City Superintendent of Schools may accept in either of the foregoing cases evidence that the applicant has successfully pursued in some recognized institution of learning, since his or her appointment as a teacher, a sufficient course of study in professional work or in some branch of science or literature.

3. To obtain a head of department's certificate, the applicant must hold an A certificate, permanent or temporary, or must have complied with the conditions required for such a certificate; must have not less than eight years' successful experience in teaching; must pass an examination in principles of education, methods of teaching, and school management; and must produce evidence of having pursued a course of study, satisfactory to the City Superintendent of Schools, in the science of education and in some branch of literature, science or art in a recognized institution of learning, either during the school year for at least two years, or at a university or normal summer school during at least two sessions of not less than six weeks each, or in lieu of such course of study, must pass an examination in one of the following subjects: English language and literature, history and civics, elementary science.

*From Minutes of the School Board of Brooklyn, 1898, pp. 531 and 532.*

The Courses of Instruction in the SCHOOL OF POLITICAL SCIENCE described on pp. 304 to 338, and in the summer School at the BIOLOGICAL LABORATORY, Cold Spring Harbor, described in this Year Book of the Institute, are established for the use of teachers.

The number of teachers enrolled in the School of Pedagogy in the year 1898-9 was four hundred and twenty-seven.

Additions to the Collections of the Department of Pedagogy during the year have been made by purchase, as follows :

THE MUSÉE SCOLAIRE : Three collections prepared by EMIL DEYROLLE, Paris, consisting of

(a) One hundred and seventeen charts illustrative of common products, materials and their manufacture, utensils and their use, common phenomena and their explanation, entitled "Lessons About Things."

(b) One hundred and two examples of types presented in an elementary study of Natural History, entitled "Elementary Collection in Natural History for Primary Pupils."

(c) A second Collection in Natural History, consisting of one hundred and seventeen characteristic specimens of minerals and rocks.

#### DEPARTMENT OF PHILOLOGY.

Prof. BRAINERD KELLOGG, LL.D.,	<i>President.</i>
Prof. WM. CRANSTON LAWTON, M.A.,	} <i>Vice-Presidents.</i>
Prof. R. J. H. GOTTHEIL, PH.D.,	
Prof. J. W. ABERNETHY, PH.D.,	<i>Corresponding Secretary.</i>
Miss EMILY G. BRIDGHAM,	<i>Secretary.</i>

#### *Executive Committee.*

Prof. BRAINERD KELLOGG, LL.D.	Prof. R. J. H. GOTTHEIL, PH.D.
Prof. J. W. ABERNETHY, PH.D.	Mr. PERCIVAL CHUBB.
Prin. WALTER B. GUNNISON, PH.D.	Prof. GEO. M. WHICHER, M.A.
Prof. WM. CRANSTON LAWTON, M.A.	Prof. HENRI MICHAUD.
Mr. HARRY F. TOWLE.	Prof. H. E. NORTHROP, M.A.
EDWARD S. HAWES, PH.D.	Miss EMILY G. BRIDGHAM.

#### *Committee on English Language.*

Prof. BRAINERD KELLOGG, LL.D.	JAMES CRUIKSHANK, LL.D.
WILLIAM H. MAXWELL, PH.D.	Assoc. Supt. JOHN H. HAAREN.
Prof. A. V. W. JACKSON, PH.D.	Miss CAROLINE B. LE ROW.
Miss M. J. BRINK.	Miss EMILY G. BRIDGHAM.

*Committee on English Literature.*

Prof. J. W. ABERNETHY, PH.D.	Rev. JOHN W. CHADWICK.
TRUMAN J. BACKUS, LL.D.	Prin. WALTER B. GUNNISON.
MR. PERCIVAL CHUBB.	MISS JOSEPHINE E. HODGDON.
MISS CHRISTINA ROUNDS.	MISS E. M. BUCKINGHAM.

*Committee on French Language and Literature.*

Prof. HENRI MICHAUD.	MISS LOUISE BOTH-HENDRIKSEN
Mrs. WALTER S. CARTER.	Mrs. A. H. BROCKWAY.
Mrs. FLAMEN B. CANDLER.	MISS ALICE HIGGINS.
Prof. GUSTAV CARTEAUX.	

*Committee on German Language and Literature.*

Prof. HENRY E. NORTHROP.	Prof. CARL LEISZ.
Prof. MENDO STERN.	Prof. JOSEPH DRGHUEE.
MISS AMALIE HANSTEIN.	

*Committee on Oriental Languages and Literature.*

Prof. R. J. H. GOTTHEIL, PH.D.	Rev. THOMAS A. NELSON, D.D.
Rev. J. C. AGER.	Prof. A. V. W. JACKSON, PH.D.
Rev. REESE F. ALSOP, D.D.	Rev. JOHN P. PETERS, PH.D.
Rev. ANDREW J. LYMAN, D.D.	Rev. L. MASON CLARK, D.D.

The Department of Philology was organized on January 14, 1891, with ninety two members. The present membership is one thousand two hundred and seventy-nine, an increase during the year of sixty-nine. The work of the Department has been conducted by the various standing committees of the organization, under the direction of the Executive Committee. The meetings and lectures of the Department and its various sections during the year have been as follows :

## THE ENGLISH LITERATURE SECTION.

I. A Course of Six Lectures on "English Authors of the Later Victorian Period," by the REV. THOMAS R. SLICER, of New York, with dates and subjects as follows :

- Oct. 4.—"Alfred Tennyson ; Latest Period."  
 Oct. 11.—"James Thompson."

- Oct.* 18.—“George Meredith.”  
*Nov.* 1.—“William Morris.”  
*Nov.* 8.—“Matthew Arnold from 1872.”  
*Nov.* 15.—“Rudyard Kipling.”

II. A Course of Six Lectures on “The Plays of Shakespeare,” by Mr. HENRY A. CLAPP, of Boston, as follows :

- Nov.* 22.—“Romeo and Juliet.”  
*Nov.* 29.—“King Richard II.”  
*Dec.* 6.—“King Henry V.”  
*Dec.* 13.—“King Lear.”  
*Dec.* 20.—“King Lear.”  
*Dec.* 27.—“The Tempest.”

III. A Course of Six Lectures, on “The Modern Novel,” by Prof. RICHARD BURTON, M.A., of the University of Minnesota, Minn., as follows :

- Dec.* 19.—“The Early Life of Fiction.”  
*Dec.* 22.—“The Novel of Analysis.”  
*Dec.* 29.—“Realism and Its Abuses.”  
*Jan.* 2.—“Realism in Its Triumphs.”  
*Jan.* 6.—“Romanticism in England and on the Continent.”  
*Jan.* 9.—“Romanticism in the American Novel.”

IV. A Course of Six Lectures on “Chaucer,” by Prof. MANUEL J. DRENNAN, M.A., of New York, as follows :

- Feb.* 28.—“Chaucer and His Times.”  
*Mar.* 7.—“The Prolegomena of Chaucer.”  
*Mar.* 14.—“The Canterbury Tales.”  
*Mar.* 21.—“Troilus and Cressida.”  
*Mar.* 28.—“The Legend of Good Women and Minor Works.”  
*Apr.* 4.—“Chaucer’s Contemporaries and Successors.”



V. A Course of Six Lectures on "Alfred Tennyson: a Study in Artistic and Intellectual Development," by Prof. MARGUERITE SWEET, Ph.D., of Mount Holyoke College, as follows:

*Mar. 8.*—"The Making of the Poet: Period from 1832 to 1842."

*Mar. 15.*—"In Memoriam': the Poet's Religion."

*Mar. 22.*—"The Verse-Novel of Tennyson: 'The Princess,' 'Maud' and 'Enoch Arden.'"

*Mar. 29.*—"The Court Epic Modernized: 'The Idylls of the King.'"

*Apr. 5.*—"A Dramatic Reading of History: Queen Mary, Harold, Becket."

*Apr. 12.*—"Retrospect and Summary from the Point of View of the Later Lyrics and Ballads."

VI. Two Lectures on "The Irish Poets," by Mr. MICHAEL MONAHAN, of Albany, as follows:

*Mar. 20.*—"Thomas Moore."

*Mar. 27.*—"A Group of Irish Poets."

VII. A Course of Five Lecture Readings by Mr. HOWARD MALCOM TICKNOR, M.A., of Boston, on the following dates and subjects:

*Mar. 31.*—"Tennyson's 'Maud': an Analytical Reading of this Example of its Author's Dramatic Methods."

*Apr. 7.*—"Browning's 'Luria': a Reading of the Tragedy, with Comments."

*Apr. 14.*—"Shakespeare as a Stagecraftsman and Playwright, with Illustrative Readings from 'Much Ado about Nothing,' and Other Plays."

*Apr. 21.*—"Edmund Rostand and His Dramatic Writings; Reading of Original Translations from 'Cyrano de Bergerac.'"

*Apr. 28.*—"Readings from Rudyard Kipling, with Comments."

## VIII. A Series of Lectures and Addresses as follows :

*Oct. 25.*—Lecture by Prof. WILLIAM CRANSTON LAWTON, M.A., of Adelphi College, on "Hawthorne's Larger Romances."

*Nov. 30.*—Lecture by Mr. WILLIAM H. FLEMING, of New York, on "The Dramatic Art of Shakespeare," with illustrative readings.

*Dec. 1.*—Address by Mr. WENDELL PHILLIPS STAFFORD, of St. Johnsbury, Vermont, on "John Greenleaf Whittier."

*Mar. 30.*—Lecture by Prof. WILLIAM CRANSTON LAWTON, M.A., of Adelphi College, on "Rudyard Kipling and his Literary Art."

*May. 3.*—Lecture by Prof. EDWARD HOWARD GRIGGS, of New York, on "Goethe's Faust, or the Faust Problem, and the Spirit of Modern Culture."

IX. A course for the critical and appreciative reading of "King Lear" and "Cymbeline," conducted by Mrs. ABBY OSBORNE RUSSELL on eight successive afternoons, beginning October 26, followed by a second course on "Romeo and Juliet" and "Antony and Cleopatra," beginning January 11.

X. A Course of Six Dramatic Readings by Mr. HENRY LAWRENCE SOUTHWICK, of Philadelphia; Mrs. BERTHA KUNZ-BAKER, of New York; Mr. LELAND POWERS, of Chicago; Miss MARY FRENCH FIELD, of Chicago; Mr. AUSTIN H. MERRILL, of Nashville, Tenn; and Mrs. WALDO RICHARDS, of Boston, on Saturday evenings, as follows :

*Nov. 19.*—Bulwer Lytton's "Richelieu, the Cardinal King," by Mr. HENRY LAWRENCE SOUTHWICK.

*Nov. 26.*—Readings from Thomas Bailey Aldrich: a Monologue, "In an Atelier," "A Midnight Fantasy," and "Judith and Holofernes," by Mrs. BERTHA KUNZ-BAKER.

*Dec. 3.*—"Lord Chumley," Belasco and De Mille, by Mr. LELAND POWERS.

*Dec. 10.*—Readings from the works of Eugene Field by

MISS MARY FRENCH FIELD, assisted by Mr. CHARLES STUART PHILLIPS, tenor ; Mr. H. E. H. BENEDICT, accompanist.

*Dec. 24.*—Readings by Mr. AUSTIN H. MERRILL : “ Jean Bagot’s Repertoire,” Gilbert Parker ; “ The Enchanted Oak,” O. Herford ; “ Unc’ Edinburg’s Drowndin’,” or “ A Christmas-Night in Ole Virginia,” Thomas Nelson Page.

*Dec. 31.*—Readings by Mrs. WALDO RICHARDS : “ King Henry V.,” Act V. Scene II., Shakespeare ; French Canadian Dialect Poem, William Henry Drummond ; An Unpublished Monologue in Negro Dialect, Paul Lawrence Dunbar ; “ The Rivals,” Selections from Acts I. and III. ; Hoosier Dialect Poems, James Whitcomb Riley ; “ The Death of the Old Year,” Tennyson.

XI. A Course of Six Dramatic Readings by Mr. HENRY LAWRENCE SOUTHWICK, of Philadelphia ; Mrs. BERTHA KUNZ-BAKER, of New York ; Mr. LELAND POWERS, of Boston ; Miss MARY FRENCH FIELD, of Chicago ; Mr. AUSTIN H. MERRILL, of Nashville, Tenn., and Mrs. WALDO RICHARDS, of Boston, on Friday afternoons, as follows :

*Nov. 18.*—“ Hamlet, the Man of Will,” Shakespeare, by Mr. HENRY LAWRENCE SOUTHWICK.

*Nov. 25.*—Readings by Mrs. BERTHA KUNZ-BAKER : “ The Patriot ;” “ Love Among the Ruins,” “ My Star,” and “ A Tale ” from Robert Browning ; and “ Armgart, the Drama of the Soul’s Development,” from George Eliot.”

*Dec. 2.*—Robertson’s “ David Garrick,” by Mr. LELAND POWERS.

*Dec. 9.*—Readings from the works of EUGENE FIELD by Miss MARY FRENCH FIELD, assisted by Mr. CHARLES STUART PHILLIPS, tenor ; Mr. H. E. H. BENEDICT, accompanist.

*Dec. 23.*—Mrs. Frances Hodgson Burnett’s “ Esmeralda,” or “ North Ca’liny Ways,” by Mr. AUSTIN H. MERRILL.

*Dec. 30.*—Readings from Thackeray ; Selections from “ Henry Esmond,” “ Vanity Fair,” and “ The Newcomes,” by Mrs. WALDO RICHARDS.

XII. A Course of Six Readings from Shakespeare, Goethe, Byron, and Victor Hugo, by Mr. GEORGE RIDDLE, of Cambridge, on Saturday evenings, as follows :

*Jan.* 14.—“Faust,” with orchestral accompaniment. Music by GOUNOD.

*Jan.* 28.—“A Midsummer Night’s Dream” with orchestra and female chorus. Music by MENDELSSOHN.

*Feb.* 4.—“The Elevator,” by WILLIAM D. HOWELLS, and “Ruy Blas.”

*Feb.* 11.—“King Henry V.,” with orchestral accompaniment. Music by MENDELSSOHN and MEYERBEER.

*Feb.* 18.—“Twelfth Night.”

*Mar.* 4.—“Manfred,” with orchestra and male and female chorus. Music by SCHUMANN.

In order to accommodate all who desired to attend, these Readings were also given on Friday afternoons, January 13th, 27th, February 3d, 10th, 17th, and March 3d.

The music on January 13th and 14th, February 10th and 11th was by the Arion Orchestra ; on January 27th and 28th, by the Arion Orchestra and a chorus of sopranos and altos, and on March 3d and 4th, by the Arion Orchestra, a male chorus from the Arion Singing Society, and a female chorus of thirty voices. Mr. ARTHUR CLAASSEN, Conductor.

XIII. A Course of Six Evening Readings by Mr. LELAND POWERS, of Boston ; Mrs. HARRIET OTIS DELLENBAUGH, of New York ; Mr. F. HOPKINSON SMITH, of New York ; Miss EMMA ELISE WEST, of New York, and Prof. CHARLES ROBERTS, Jr., of New York, on Saturday evenings, as follows :

*Mar.* 11.—“The Borrowed Spectacles,” by Mr. LELAND POWERS.

*Mar.* 18.—Shakespeare’s “As You Like It,” by Mrs. HARRIET OTIS DELLENBAUGH.

*Apr. 1.*—An Author's Reading: "Colonel Carter of Cartersville," by Mr. F. HOPKINSON SMITH.

*Apr. 8.*—Selections from Robert Browning, by Miss EMMA ELISE WEST.

*Apr. 15.*—Selections from Bret Harte: "How Santa Claus Came to Simpson's Bar," "Selina Sedilia," and from Thomas Hood: "The Desert Born," "More Hullabaloo," by Prof. CHARLES ROBERTS, Jr.

#### FRENCH LANGUAGE AND LITERATURE.

XIV. A Course of Five Lectures on "Contemporary French Authors," by Mrs. RICHARD GOTTHEIL, of New York. These lectures were given in the French language. The dates and subjects were as follows:

*Oct. 10.*—"Francois Coppée."

*Oct. 17.*—"Pierre Loti."

*Oct. 24.*—"Alphonse Daudet."

*Oct. 31.*—"Emile Zola."

*Nov. 7.*—"Une Trio féminin (Gyp, Mme. Arvède Barrine, la Comtesse Diane)."

XV. A Course of Five Lecture Recitals on "The Genius and Influence of Molière, as Illustrated in His Dramas," by Mrs. CHARLOTTE REEVE CONOVER, of Dayton, Ohio, on Monday afternoons, on the following dates and subjects:

*Jan. 16.*—"Molière and His World." Readings in French from "Le Bourgeois Gentilhomme," Acte II., Scène VI., and "Le Mariage Forcé," Acte I., Scène VI.

*Jan. 23.*—"Molière and the Pedants." Readings in French from "Les Precieuses Ridicules," Acte I., Scène IV.; "Les Femmes Savantes," Acte II., Scène VI., et Acte III., Scène II.

*Jan. 30.*—"The Three Great Comedies." Readings in French from "Tartuffe," Acte I., Scène V.; "l'Avare," Acte I., Scène V. et VI.; "Le Misanthrope," Acte II., Scène I.

*Feb.* 6.—“Molière and the Doctors.” Readings in French from “l'Amour Médecin,” Acte II., Scène III., and “Le Malade Imaginaire,” Acte III., Scène IV. et XIV. Illustrated by lantern photographs.

*Feb.* 24 (Friday).—“The ‘Morale’ of the Comedies.” Readings in French from “l'Ecole des Femmes,” Scène VII. Illustrated by lantern photographs.

XVI. An Institute Extension Course of special instruction in WOLFRAM VON ESCHENBACH'S “Parsifal,” was given by Prof. Menco STERN, of New York, on ten successive Thursday evenings, beginning October 13th.

A later course was given by Prof. STERN, in GOTTFRIED VON STRASSBURG'S “Tristan und Isolt,” beginning January 12th.

The purpose of these courses was to combine instruction in the reading of German and in the translation of German into English, with instruction concerning the author and the works under discussion.

### THE CLASSICAL SECTION

EDWIN G. WARNER, PH. D.,  
Prof. JOHN A. SANFORD,  
Miss A. S. JENKINS,

*Chairman.*  
*Vice-Chairman.*  
*Secretary.*

#### *Executive Committee.*

EDWIN G. WARNER, PH.D.  
Prof. JOHN A. SANFORD, PH.D.  
EDWARD SOUTHWORTH HAWES, PH.D.  
Miss S. P. PEABODY.

HARRY F. TOWLE, M.A.  
Miss OLIVE VAN VLIET.  
Miss MARY COCHRAN.  
Miss HEDWIG E. GIESE.

Miss A. S. JENKINS.

XVII. The Classical Section of the Department of Philology was organized December 4, 1893, with a membership of thirty-two; the present membership is sixty-six. The Section has conducted six lectures, during the season, on the following dates and subjects :

*Oct. 10.*—Lecture by Prof. WILLIAM CRANSTON LAWTON, M.A., of Adelphi College, on "A Trip About the Athenian Acropolis," illustrated by lantern photographs.

*Nov. 14.*—Lecture by Prof. WILLIAM CRANSTON LAWTON, M.A., of Adelphi College, on "The Fourth Unity," or "The Value of an Heroic Central Human Figure in a Work of Art," illustrated by lantern photographs.

*Dec. 14.*—Lecture by Dr. EDWARD S. HAWES, of the Polytechnic Institute, Chairman of the Section, on "The Greek Deities as Represented in Greek Art," illustrated by lantern photographs.

*Feb. 20.*—Lecture by Prof. WILLIAM H. GOODYEAR, M.A., Curator of Fine Arts, on "The Cesnola Collection of Cypriote Antiquities" in the Metropolitan Museum of Art, illustrated by lantern photographs.

*Apr. 10.*—Lecture by Miss ALICE VAN VLIET, of the Berkeley Institute, on "Early Greek Cosmology."

*May 8.*—Lecture by EDWIN G. WARNER, PH.D., of the Polytechnic Institute, on "The War Ships and the Naval Battles of the Greeks," illustrated by lantern photographs.

The Classical Section held meetings every other Saturday evening, from October to June, inclusive, at the Art Building, for the purpose of reading Greek and Latin authors.

An arrangement has been effected with the Brooklyn Library whereby classical periodicals are placed in the Reading Room for the benefit of the Classical Section.

#### HEBREW LANGUAGE AND LITERATURE.

XVIII. Six Lectures on "The Early Religious Life of the Hebrews," by Prof. KARL BUDDE, D.D., of Strassburg, Germany. These lectures were given on Tuesday evenings, on the following dates and subjects :

*Nov. 8.*—"The Origin of the Religion of Israel, and of the Hebrew Worship of Jehovah."

*Nov. 15.*—"The Ancient Worship of Jehovah."

*Nov.* 22.—“The Hebrew Priests, Prophets and Kings.”

*Nov.* 29.—“The Written Prophecies of Israel.”

*Dec.* 6.—“Isaiah, the Prophet of the Southern Kingdom.”

*Dec.* 13.—“Jeremiah, Ezekiel, and the Hebrew Faith.”

This course was the fourth in the series given under the joint auspices of the INSTITUTE and the AMERICAN COMMITTEE ON LECTURES ON THE HISTORY OF RELIGIONS. The first course was given in 1895, by Prof. T. W. RHYS DAVIDS, L.H.D., of London, on “Buddhism;” the second, in 1896, by Prof. DANIEL G. BRINTON, Sc.D., I.L.D., of Philadelphia, on “The Religions of Primitive Peoples;” the third, in 1897, by the Rev. THOMAS K. CHEYNE, M.A., D.D., of Oxford University, Canon of Rochester, on “The Religious Life of the Hebrews after the Exile.” The lectures already delivered have been published in book form by Messrs. G. P. Putnam & Sons. The course of lectures by Prof. BUDDE was delivered also at the LOWELL INSTITUTE in Boston, the PEABODY INSTITUTE in Baltimore, BROWN UNIVERSITY, Providence; YALE UNIVERSITY, New Haven; CORNELL UNIVERSITY, Ithaca, and the UNIVERSITY OF PENNSYLVANIA, Philadelphia.

#### ORIENTAL LANGUAGES AND LITERATURE.

XIX. A Course of Six Illustrated Lectures, on “The Geography and Antiquities of Palestine,” by Prof. RICHARD GOTTHIEL, Ph.D., of Columbia University, on Tuesday evenings, as follows:

*Apr.* 11.—“The Geography of Palestine and Its Bearing on the History of the Country.”

*Apr.* 18.—“The Maritime Plain and the Central Table Land.”

*Apr.* 25.—“The Jordan Valley and Eastern Palestine.”

*May* 2.—“Jerusalem and Her History.”

*May* 9.—“Archæological Research and Archæological Remains in Palestine.”

*May* 16.—“Palestine of To-day; Regeneration of the



Country ; the Railroad ; Russian, German and Jewish Colonies ; Zionism and the Future of Palestine."

The course of lectures in the Department of Philology, as well as in several other Departments, have been accompanied by references for reading, and the circulation of the libraries of the city has been very greatly influenced in the subjects covered by the lecture courses.

Donations to the Library of the Department of Philology have been received during the year, as follows :

FROM SCRIBNERS' SONS :

"The Letters, Criticisms, Sketches, etc., of Robert Louis Stevenson."

FROM PRINCETON UNIVERSITY :

"Princeton in the Spanish-American War."

FROM MISS ELLEN E. NICHOLS :

One parchment bound volume of "Opera Taciti" (1687) ;  
one bound volume of "Comediæ Aristophanis" (1670).

## DEPARTMENT OF PHOTOGRAPHY.

Prof. WILLIAM C. PECKHAM, M.A.,	<i>President.</i>
DE WITT L. PARKER, M.D.,	<i>First Vice-President.</i>
ALLEN B. DOGGETT,	<i>Second Vice-President.</i>
HENRY A. CARLY,	<i>Curator.</i>
JAMES H. FERGUSON,	<i>Recording Secretary.</i>
CHARLES F. PAINE,	<i>Corresponding Secretary.</i>
HORACE P. AVERILL,	<i>Treasurer.</i>

*Executive Committee and Committee on Rooms and Appliances.*

Prof. WILLIAM C. PECKHAM, M.A.,	<i>Chairman.</i>
JAMES W. KENT.	MYERS R. JONES, A.M., LL.B.
DE WITT L. PARKER.	WILLIAM J. BRYANT.
ALLEN B. DOGGETT.	ARTHUR B. MANN.
JAMES H. FERGUSON.	JOHN H. NORRIS.
LANDON GURLITZ	WILLIAM B. COLSON.
HORACE P. AVERILL.	WILLIAM R. SCRIMGEOUR
HENRY A. CARLY.	W. A. BOGER.
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*Committee on Demonstrations and Processes.*JAMES W. KENT, *Chairman.*

HENRY A. CARLY.

LONDON GURLITZ.

*Committee on Lantern and Lantern Slides.*W. J. BRYANT, *Chairman.**Committee on Exhibition and Prints.*MYERS R. JONES, *Chairman.*

HENRY L. UNDERHILL.

HORACE P. AVERILL.

E. H. POWERS.

W. B. COLSON.

*Committee on Lectures.*ARTHUR B. MANN, *Chairman.*

E. H. POWERS.

P. G. FARQUHARSON.

*Committee on Brooklyn Slides.*JOHN H. NORRIS, *Chairman.*

EDWARD T. COCKEY.

W. J. BRYANT.

*Committee on Excursions.*W. B. COLSON, *Chairman.*

J. H. FERGUSON.

W. A. BOGER.

The Department of Photography was organized on March 26, 1889, with thirty-four members; the present membership is four hundred and ninety-five, an increase of sixty-six during the past twelve months. The lectures, conferences and meetings during the past season have been as follows:

*Nov. 17.*—Lecture by Mr. WILLIAM D. MURPHY, President of the New York Camera Club, on "Pictorial Photography," illustrated by lantern photographs.

*Dec. 12.*—Lecture by Major WILLIAM H. COUGHLIN, Educational Director of the Young Men's Christian Association, on "Old Brooklyn," illustrated by 100 lantern photographs, made and colored by Major COUGHLIN.

*Dec. 15.*—Lecture by Prof. J. S. GIBSON, of Montclair, N.

J., on "Color Photography," illustrated by colored photographs, taken and exhibited with a newly invented apparatus.

*Jan. 19.*—Lecture by Mr. ANTHONY FIALA, of the Brooklyn *Eagle*, entitled "With Troop C in the Island of Porto Rico," illustrated by lantern photographs.

*Mar. 16.*—Lecture by Mr. H. SNOWDON WARD, F.R.P.S., of London, England, Editor of the *Photogram*, on "The Real Dickens' Land," illustrated by lantern photographs.

*Apr. 12.*—Lecture by Prof. HENRY E. NORTHROP, M.A., of the Polytechnic Institute, on "Japan and the Japanese," illustrated by lantern photographs.

Besides the foregoing, three co-operative lectures were given, as follows :

*Sept. 30.*—In conjunction with the Department of Engineering, a lecture by Mr. HENRY W. RAYMOND, of Germantown, Pa., on "The Fighting Ship of Yesterday and To-day," illustrated by lantern photographs, including pictures of every ship in the United States Navy, views of the ports and countries which were the scene of action during the recent Spanish war, and portraits of our naval commandants.

*Feb. 16.*—In conjunction with the Department of Botany, a lecture by Mr. CORNELIUS VAN BRUNT, of New York, on "Parks and Flowers of Greater New York," illustrated by colored lantern photographs.

*Mar. 23.*—In conjunction with the Department of Geography, a lecture by the Rev. J. J. LEWIS, of Boston, on "The Scenery of New England," illustrated by colored lantern photographs.

*May 18.*—Lecture by Prof. WILLIAM C. PECKHAM, M.A., of Adelphi College, on "China and the Chinese," illustrated by lantern photographs.

In addition to the work so far described, the following special and extra lectures and picture plays were given under the auspices of the Department :

I. A Course of Five Mid-Winter Lectures, illustrated by beautiful colored lantern photographs and by motion pictures projected by the Chronomatographe, was given by Mr. BURTON HOLMES, of Chicago, fully described under the Department of Geography.

II. A Course of Four Lectures, illustrated by photographs and Cinematographe views, taken with the telephoto-lens and beautifully colored to nature, by Mr. DWIGHT L. ELMENDORF, on Monday evenings in April. The first lecture, entitled "The Santiago Campaign and the Destruction of Cervera's Fleet," was repeated on the evenings of May 1st and May 11th, to meet the demands of the Members to hear the lecture.

III. On Saturday evenings, April 29th, and May 6th, Mr. ALEXANDER BLACK repeated his Picture Plays, "Miss Jerry" and "Miss America," with many new views.

On the fourth Thursday evening of each month "Demonstrations of Methods in Photography" were given by Members and specialists, as follows :

*Oct. 27.*—Demonstration with "Platinotype Paper," by the WILLIS and CLEMENT COMPANY, of Philadelphia.

*Nov. 10.*—Demonstration with "Velox Paper," by the NEPERA CHEMICAL COMPANY, of New York.

*Jan. 26.*—Demonstration: "How to Make Colored Lantern Slides and Transparencies," by Mr. J. J. MONTGOMERY, of the Seed Dry Plate Company.

*Feb. 9.*—Demonstrations of "Methods in Photography" and discussions by Members.

*Feb. 23.*—Demonstrations of "Dekko Paper," by the EASTMAN KODAK COMPANY, of Rochester, N. Y.

*Mar. 23.*—Demonstrations of "Methods in Photography," by Members.

On the second Thursday evening of each month an informal exhibition of lantern slides made by the Members of the Department was given.

On the third Thursday evening slides made by the various Camera Clubs of the country were exhibited, the Department being a member of the Interchange Association. Among the sets of Prints shown were the Competitive Exhibition Prints for the illustration of the Catalogue of the Annual Print Exhibition of 1899, and two hundred lantern photographs collected by the Department during the year, as a beginning of a collection for the Museum of the Institute.

Three classes for instruction in photographic methods were conducted during the season under the direction of the Committee on Demonstrations and Processes.

The Department of Photography is to be congratulated upon the excellent facilities for work that have been provided for it, and for the valuable provisions that have been made for the instruction and enjoyment of all its members.

The Department has fitted up and furnished a suite of rooms at 201 Montague street, next door to the Brooklyn Library, for the exclusive use of its members. The suite includes a large studio room 25x32 feet, which is provided with a good skylight, 10x14 feet, and is excellently adapted for studio photography; a dark room, provided with all the accessories necessary for the development of photographs, and an enlarging room, with good north light. The rooms contain appliances adapted to the best work in photography, and may be used from 9. A. M. until 10 P. M. each week day. Members are provided with lockers for their own apparatus, and a reading room contains the best standard works and current periodicals on photography.

A Tisdell Lantern has been provided for continuous use by the Members of the Department, and a new Beseler Electric Lamp has been fitted to the lantern and supplied with electric current. A quantity of new apparatus has been added to the photographic equipment, and the Department's Library has been increased during the past year by

the donation of fifteen volumes and the addition of current numbers of various photographic journals.

The Department holds meetings of its members in its rooms, on Friday evenings, at eight o'clock, from October to May, inclusive. These meetings are occupied by short papers on the technique of Photography and on new methods and devices; by conferences on matters of scientific or artistic interest, and by exhibits of lantern slides, negatives and prints.

The Ninth Annual Photographic Exhibition of Photographic Prints and Lantern Slides was held at the Art Galleries in Montague street from April 22d to May 6th, inclusive. The following members exhibited photographic work: HORACE P. AVERILL, CHARLES A. BAKER, C. C. BENEDICT, ALEXANDER BLACK, W. A. BOGER, WILLIAM J. BRYANT, FRANK A. BUTLER, Mrs. C. H. BURDETT, HENRY A. CARLY, Dr. GEORGE A. CASSIDY, HARRY COUTANT, Dr. L. A. CUINET, FREDERICK W. DAVIS Miss JULIA C. DETLEFSEN, ALFRED W. DILLER, Miss EVA M. FERGUSON, HARRY C. FINCKE, H. B. FULLERTON, ROBERT N. GRAVES, LANDON GURLITZ, I. V. HALLOCK, HENRY W. HODGES, J. PERCIVAL HUNTING, JOHN W. JAMES, Jr., MYERS R. JONES, JAMES W. KENT, CHARLES KUHN, HARRY T. LEES, D. STUART MARSH, Dr. JOHN MERRITT, Dr. JOHANNES MEYER, CHARLES H. MORSE, JOHN H. NORRIS, H. W. ORMSBEE, J. CLYDE OSWALD, CHARLES F. PAINE, STEPHEN S. PALMER, Dr. DEWITT L. PARKER, B. HENRY PELZER, Jr., FRANK A. PERRET, FRANCIS A. PRENDERGAST, E. H. POWERS, Miss LAURA B. RENSHAW, A. C. RUPRECHT, F. ST. J. RICHARDS, WILLIAM R. SCRIMGEOUR, G. WARING STEBBINS, ARCHIBALD C. SCRIMGEOUR, HARRY A. SHIPLEY, FREDERICK SHERWOOD, HENRY L. UNDERHILL, B. G. WAY, WILLIAM T. WINTRINGHAM, Miss MARIE ZIMMERMANN, W. B. COLSON, JAMES H. FERGUSON, P. G. FARQUHARSON, JOHN R. JORDAN, Miss BEATRICE P. KING, A. B. MANN, CHARLES W. EDWARDS, H. R. LANDIS.

First and Second Awards, and Honorable Mention, are made in all classes, under the following divisions: Landscapes, Marines, Architecture, Portraits, Figure Studies, Flower Studies, and Genre Work.

First Award—All classes, Blue Ribbon.

Second Award—All classes, White Ribbon.

Honorable Mention—All classes, White Seal.

First Award, Lantern Slides, Gold Seal.

The judges of the quality of the photographs exhibited were CHARLES M. SKINNER, ALEXANDER BLACK, and WILLIAM H. COUGHLIN.

Excursions to points of historic, scientific or picturesque interest are made on Saturdays and legal holidays by Members, under the leadership of the Members of the Excursion Committee, during the pleasanter months of the year.

The Department is engaged in making a collection of photographs of Long Island, from Fort Hamilton to Montauk Point, the Collections to contain the best Photographs to be obtained. Contributions to this Collection will be welcomed from all who are interested in the scenery, the history, architecture, geology, or inhabitants of this Island. The Committee in charge of making this Collection during the past year comprised Mr. J. W. KENT, Mr. JAMES H. FERGUSON, Mr. WILLIAM J. BRYANT, and Mrs. C. H. BURDETT.

Additions have been made to the Collections of the Department during the year, as follows:—

From Mr. MYERS R. JONES, for the Department Collection of Old Brooklyn Subjects, ninety-seven slides.

From Major COUGHLIN, of the Y. M. C. A., for the Collection of Old Brooklyn Subjects, fifteen slides.

From Prof. WILLIAM H. PECKHAM, Chairman of the Committee on Brooklyn Slides, one hundred and twelve slides, for the Collection of Modern Brooklyn Subjects.

Additions have been made by purchase during the year, as follows :—

From T. H. McALLISTER, of New York City :

Five hundred slides on Egyptian subjects.

From JOSEPH HAWKES, of New York City :

Two hundred slides on Assyrian and Egyptian subjects.

These seven hundred slides were purchased to illustrate the Courses of Lectures on "The History of Art in Its Relation to Civilization," given in the Museum Building, by Prof. WILLIAM H. GOODYEAR, Curator of Fine Arts, during the months of February to June, inclusive. Nearly all the lantern slide photographs were colored by artists in New York and Philadelphia.

#### DEPARTMENT OF PHYSICS.

Prof. JOHN S. MCKAY, PH.D.,	<i>President.</i>
Prof. WILLIAM C. PECKHAM, M.A.,	<i>Vice-President.</i>
WALLACE GOOLD LEVISON, B.Sc.,	<i>Curator.</i>
RUDOLPH SELDNER, PH.B.,	<i>Secretary.</i>

#### *Executive Committee.*

Prof. JOHN S. MCKAY, PH.D.	J. P. WINTRINGHAM.
Prof. WILLIAM C. PECKHAM, M.A.	WALLACE GOOLD LEVISON, B.Sc.
Prof. SAMUEL SHELDON, PH.D.	P. F. VAN EVEREN.
GEORGE M. HOPKINS.	WILLIAM CLINTON BURLING.
JAMES HAMBLETT.	DOUGLAS BURNETT, B.S.
WALLACE P. GROOM.	RUDOLPH SELDNER, PH.B.

The Department was organized in May, 1888, with thirty-six members. The present membership is one hundred and sixty-one, an increase of four during the year.

The lectures given under the auspices of the Department during the past season have been as follows :

*Feb. 23.*—Lecture by Prof. WILLIAM E. GEYER, PH.D., of Stevens Institute, on "Color," illustrated by experimental demonstrations.



*Mar. 3.*—In conjunction with the Department of Astronomy a lecture by Prof. WILLIAM C. PECKHAM, M.A., on "Blizzards, Cyclones and Tornadoes," illustrated by lantern photographs.

*Mar. 23.*—Lecture by Prof. WILLIAM HALLOCK, PH.D., of Columbia University, on "Capillarity and Surface Tension," illustrated by experimental demonstrations.

Two conferences were also held, as follows :

*Nov. 14.*—Conference on "The Place of Physics in Secondary Education" Opening paper by Mr. JOHN F. WOODHULL, of the Teachers' College, Columbia University.

*Dec. 12.*—Conference on "Laboratory Methods in Physics in Secondary Schools," conducted by Prof. E. R. VON NARDROFF, PH.D., of the Erasmus Hall High School.

A Course of Eight Lectures on "The Atmosphere," by Prof. JOHN S. MCKAY, PH.D., of the Packer Collegiate Institute, President of the Department, on Tuesday evenings during the months of October, November and December. The lectures were illustrated by new and interesting experimental demonstrations. The dates and subjects were as follows :

*Oct. 11.*—"The Physical Properties of Air."

*Oct. 18.*—"The Temperature of the Air."

*Oct. 25.*—"The Moisture of the Air."

*Nov. 1.*—"Movements of Air; Winds"

*Nov. 8.*—"Cyclones and Other Storms."

*Nov. 15.*—"Electrical and Optical Phenomena of the Air."

*Nov. 22.*—"The Constitution of the Air and Its Relation to Life and Health."

*Nov. 29.*—"Compressed Air and Liquefied Air."

Reports on the literature and progress of physical science were made from time to time at the regular monthly meetings by a special committee of the Department, of which Mr. J. P. WINTRINGHAM is chairman.

Among the means of illustrating the lectures of the Department and of the Institute are a Clark electric arc lamp for use in the large Hawkrigde lantern, and three Beseler arc lamps for use in the Tisdell lanterns. In fully ninety-five per cent. of the illustrated lectures given during the year the electric light has been used in the lanterns in preference to the lime light. The collection of lantern slides has been increased during the past twelve months by the manufacture of about nine hundred and fifty for the use of the Departments.

Additions to the apparatus of the Department have been received by purchase, at an expense of five hundred and twenty dollars, as follows: Rotating Apparatus, automatic air pump, four bell-glasses, hollow globe for weighing air, specific gravity balance, condensing pump, copper reservoir with revolving jet, air-gun jet, bell paradox and fountain jet, magnetic needle, static needle, a set of bar magnets, dipping needle, Bennet electroscope, Toepler-Holz machine, condenser of Epinus, nine-jar battery, discharger, Ampere's law apparatus, primary and secondary coils on base, Queen induction coil, theostat, fluoroscope, X-ray tubes, lantern, Queen earth inductor, Wimshurst machine, copper cylinder, insulated conductor, electric egg.

#### DEPARTMENT OF POLITICAL SCIENCE.

HON. JOHN A. TAYLOR,	<i>President.</i>
CONRAD V. DYKEMAN,	} <i>Vice-Presidents.</i>
Prof. CHARLES H. LEVERMORE, PH.D.,	
C. H. J. DOUGLAS, PH.D.,	

#### *Executive Committee.*

HON. JOHN A. TAYLOR.	Prof. CHAS. H. LEVERMORE, PH. D.
Prof. WILLIAM A. DUNNING.	CHARLES B. HEWITT.
BENJAMIN E SEAVER.	CONRAD V. DYKEMAN,
	CHARLES CLAGHORN, M A.

*Committee on the School of Political Science.*

HON. JOHN A. TAYLOR.	CONRAD V. DYKEMAN.
HON. JOSEPH C. HENDRIX.	CHARLES CLAGHORN, M.A.
PROF. CHAS. H. LEVERMORE, PH.D.	ABRAHAM ABRAHAM.
PROF. C. H. J. DOUGLAS, PH.D.	WALTER S. LOGAN.
PROF. WM. A. DUNNING, PH.D.	JAMES CRUIKSHANK, LL.D.
CHARLES B. HEWITT.	PROF. FREDERIC W. OSBORN, M.A.
REV. J. COLEMAN ADAMS, PH.D.	HOWARD T. WALDEN.
PROF. FRANKLIN W. HOOPER, M.A.	FREDERIC M. CORSE, M.A.
WILLIAM C. BRYANT.	Mrs. BERNARD PETERS.
REV. WILLIAM I. NICHOLS.	Mrs. JENNIE A. WHITCOMB.
BENJAMIN E. SEAVER.	Mrs. MARIA HUNTINGTON ELWELL.

The Department of Political Science was organized on December 17, 1889, with one hundred and sixteen members. The present membership is eight hundred and sixty-five, a gain of three during the past year. The work of the Department is under the general direction of the Executive Committee. The regular meetings of the Department are held on Thursday evenings, from October to May. The meetings and work during the past year have comprised six courses of lectures on social, political, economic and historic questions, two addresses on special subjects, six courses of instruction in the School of Political Science, and two courses of lectures on legal subjects.

A list of the courses of lectures, with the dates and titles of the individual lectures, is as follows :

I. A Course of Six Lectures on "Switzerland and Her People," by WILLIAM D. MCCRACKAN, PH. D., of New York. These lectures were given in conjunction with the Department of Geography and were illustrated by lantern photographs. The dates and subjects were as follows :

*Oct. 1.*—"The Early History of Switzerland and the Legend of William Tell."

*Oct. 8.*—"Switzerland during the Middle Ages."

*Oct. 15.*—"Modern Switzerland and the Life of the Swiss Peasant."

*Oct. 22.*—"The Government of Switzerland and the Swiss Army."

*Oct. 29.*—"Andreas Hofer and the Tyrol."

*Nov. 5.*—"Art in Switzerland and the Tyrol; the Frescoes of Tristan and Isolde, and of other Arthurian Legends."

II: A Course of Seven Lectures on "The Old World in the New," with lecturers, dates and subjects, as follows:

*Oct. 7.*—Lecture by Rev. EDWARD G. PORTER, of Boston, on "What Spain Has Done for America."

*Oct. 14.*—Lecture by the Rev. WILLIAM ELLIOT GRIFFIS, D. D., of Ithaca, on "What Italy Has Done for America."

*Oct. 21.*—Lecture by Prof. JEAN CHARLEMAGNE BRACQ, of Vassar College, on "What France Has Done for America."

*Oct. 28.*—Lecture by Mr. JOSEPH P. WARREN, of Boston, on "What Norway and Sweden Have Done for America."

*Nov. 4.*—Lecture by Mr. EDWIN D. MEAD, of Boston, on "What Holland Has Done for America."

*Nov. 11.*—Lecture by Miss ANNA B. THOMPSON, of Boston, on "What Germany Has Done for America."

*Nov. 21.*—Lecture by Prof. CHARLES H. LEVERMONE, PH. D., President of Adelphi College, on "What England Has Done for America."

III. A Course of Four Illustrated Lectures on "Early New England History," given under the joint auspices of the L. I. HISTORICAL SOCIETY, the NEW ENGLAND SOCIETY, and the INSTITUTE, as follows:

*Oct. 31.*—Lecture by the Rev. SAMUEL A. ELIOT, of Boston, on "Captain John Smith, the Father of New England, and His American Exploits."

*Dec. 20.*—Lecture by the Hon. ROBERT D. BENEDICT, LL. D., on "The Devils of Loudun" or "Some Comparisons Between Witchcraft in Salem and in Europe."

*Jan. 31.*—Lecture by Mrs. JULIA WARD HOWE, of Boston, on "The Brook Farm Experiment."

*Apr.* 4.—Lecture by Rev. SAMUEL A. ELIOT, of Boston, on "Boston, and Her Metropolitan Park System."

IV. A Course of Five Lectures, by Prof. WOODROW WILSON, LL.D., of Princeton University, on "The Government of Cities," as follows :

*Nov.* 18.—"The Origins of Our City Governments."

*Nov.* 25.—"The Principles of Municipal Organization."

*Dec.* 2.—"The City Executive."

*Dec.* 9.—"The City Council."

*Dec.* 16.—"Recent Changes in City Charters and Their Influences."

V. A Course of Eight Lectures, by Prof. ARTHUR M. WHEELER, LL.D., of Yale University, on "The Leading Powers of Europe, and their Relations to the United States," as follows :

*Dec.* 23.—"How and Why England Became an Empire."

*Dec.* 30.—"The British Empire of To-day ; the Necessary Conditions of its Existence ; its Burdens and Responsibilities ; its Signs of Weakness and Limits of Expansion."

*Jan.* 4.—"Anglo-American Relations, Past and Present ; Diplomatic, Political and Social ; the Outlook."

*Jan.* 13.—"France ; her Genius, her Mission and her Mistakes ; her Ideas of Liberty and Equality Compared with our Own."

*Jan.* 20.—"Our Relations with France ; the Mexican Controversy and its Results ; the Two Republics Compared ; Why Self-Government Fails in France."

*Jan.* 27.—"Germany ; Causes of Her Slow Political Development ; Influence of the German Element in America ; Relations with the United States."

*Feb.* 3.—"Russia and our Relations with the Russian Empire."

*Feb.* 10.—"The Ottoman Empire and the Relation of the United States to the Eastern Question,"

VI. A Course of Six Lectures, by Prof SIDNEY SHERWOOD, PH.D., of Johns Hopkins University, on "The Currency Situation in the United States," as follows :

*Jan. 3.*—"The Genesis of the Existing Situation ; Legislation during the Civil War ; the Greenback and the Resumption of Specie Payments."

*Jan. 10.*—"The Place of Silver in Our National Currency ; Silver Legislation since the War ; the Chimera of Free Coinage."

*Jan. 17.*—"International Aspects of the Situation ; the General Abandonment of Silver ; the Influence of International Trade."

*Jan. 24.*—"The Government and the Banks ; Federal vs. State Banks ; Bank Notes vs. Greenbacks."

*Jan. 31.*—"The Banks and Business ; the Advantages and Shortcomings of the Present Banking System."

*Feb. 7.*—"The Improvement of the Currency ; Requisites of a Permanent and Stable Currency ; the Report of the Indianapolis Commission ; the Importance of Action by Congress."

VII. A Course of Six Illustrated Lectures, by Mrs. FLORENCE JACKSON STODDARD, of New York, on "The Countries of South America." These lectures were given with the co-operation of the Department of Geography, under which they are fully described.

VIII. A Course of Five Lectures, by Prof. ALBERT BUSHNELL HART, PH.D., of Harvard University, on "The Spaniard and the Anglo-Saxon," as follows :

*Feb. 17.*—"The Century of Spain's Greatness, 1492-1588."

*Feb. 24.*—"Spain and England in Europe and in America, 1588-1689."

*Mar. 3.*—"Spain and England in the Inter-Colonial Wars, 1689-1783."

*Mar. 10.*—"Spain and the United States during the War

of the Revolution and the Early Years of the Republic, 1775-1795."

*Mar. 17.*—"The Ruin of Spain's Power, 1795-1823."

IX. A Course of Four Illustrated Lectures, by Prof. PATRICK GEDDES, F.R.S.E., of University College, Dundee, Scotland, on "Geographical Subjects," in co-operation with the Department of Geography, as follows:

*Feb. 21.*—"A Journey in Cyprus."

*Feb. 28.*—"The Ancient Civilization in the Island of Cyprus."

*Mar. 7.*—"The Evolution of the Primitive Occupations of Man (Hunter, Shepherd, Fisher, Peasant, Miner, Forester)."

*Mar. 21.*—"The Proposed Paris Exposition of World Geography and the Outlook Tower as a Clearing House of Culture."

Besides the foregoing courses the following single and special lectures were given:

*Sept. 29.*—Lecture by Mr. WILLIAM W. ELLSWORTH, of the *Century Magazine*, New York City, entitled "From Lexington to Concord," illustrated by 160 lantern photographs of battlefields, historic houses and monuments of the Revolution, photographs of rare prints and manuscripts, and of paintings of battle scenes and heroes of the Revolutionary War.

*Oct. 15.*—Lecture by Mr. WILLIAM W. ELLSWORTH, of the *Century Magazine*, New York City, on "Arnold and André," or "The Story of Treason," illustrated by 150 lantern photographs, mostly colored, and representing scenes from the Revolutionary period and reproductions of rare prints and manuscripts, and of portraits from English and American collections.

*Oct. 17.*—Lecture by Mrs. FREDERICK DOUGLAS, of Washington, D. C., on "The Convict Lease System of the Southern States."

*Nov. 9.*—Lecture by Mr. ADELBERT M. DEWEY, of the Department of the Interior, on "Rear Admiral Dewey, the

Hero of Manila, and his Naval Victory," illustrated by lantern photographs.

*Dec. 13.*—Lecture by Mr. GEORGE T. DOWNING, of Newport, R. I., on "The Negro Problem More Fully Discussed."

*Jan. 23.*—Address by the Rev. WASHINGTON GLADDEN, D.D., of Columbus, Ohio, on "The Man and the Nation."

## THE SCHOOL OF POLITICAL SCIENCE.

HON. JOHN A. TAYLOR,	<i>President.</i>
CONRAD V. DYKEMAN,	
Prof. CHARLES H. LEVERMORE, PH.D.,	<i>Vice Presidents.</i>
C. H. J. DOUGLAS, PH. D.,	<i>Secretary.</i>

### INSTRUCTORS.

Mr. FREDERICK M. CORSE, M.A.,  
POLITICAL ECONOMY AND FINANCE.  
MILO R. MALTBIE, M.A., PH. D.,  
AMERICAN POLITICS AND CIVIL GOVERNMENT.  
Prof. WILLIAM C. WEBSTER, M.A., PH.D.,  
HISTORY AND SOCIOLOGY.

### *Executive Committee.*

HON. JOHN A. TAYLOR.	Prof. CHAS. H. LEVERMORE, PH. D.
Prof. WM. A. DUNNING, PH.D.	CHARLES B. HEWITT,
C. H. J. DOUGLAS, PH.D.	CONRAD V. DYKEMAN.
	CHARLES CLAGHORN.

### *Committee on the School of Political Science.*

HON. JOHN A. TAYLOR.	Prof. FRANKLIN W. HOOPER.
HON. JOSEPH C. HENDRIX.	Prof. FRED. W. OSBORN, M.A.
Prof. CHAS H. LEVERMORE, PH.D.	JAMES CRUIKSHANK, LL D.
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WILLIAM CULLEN BRYANT.	Mrs. BERNARD PETERS.
Rev. WILLIAM I. NICHOLS.	Mrs. MARIA HUNTINGTON ELWELL.
FREDERICK M. CORSE, M.A.	Mrs. JENNIE A. WHITCOMB.



## A.—FOR WHOM ESTABLISHED.

1. *For Classes of Young Men.* There are forty thousand young men residing in Brooklyn who have passed the school age, and who should be prepared for the intelligent and righteous discharge of the duties of citizenship. Many of these young men have already become interested in political and social questions, and desire systematic instruction in Political, Economic and Social Science.

2. *For Classes of Young Women.* There are large numbers of young women in the city who have passed the school age who are naturally studious, and who feel a deep interest in all questions which relate to the social, civil and political history of our country, and to the great social problems of the day.

3. *For large numbers of Teachers in our Public and Private Schools,* whose duty it is to give instruction in Civil Government and United States History, who would be pleased to attend excellent courses of lectures and conferences, conducted by the ablest specialists engaged in giving instruction on these subjects. Such courses would lead to the enlargement of the courses of instruction in our schools, whose special purpose it is to give information that will prepare our youth for citizenship.

4. *For Mechanics and Artisans* who are thoughtful citizens and who would be glad to attend courses of lectures on the political and economic problems of the day. The subjects might be presented under the auspices of labor organizations.

5. *For large numbers of our Citizens* who are deeply interested in everything that pertains to the uplifting of our American institutions, and whose love of country prompts them to every species of activity that will promote the public good. Already several hundred of these have attended the courses of lectures conducted by the Department of Political and Economic Science of the Institute. These

people demand more thorough and systematic instruction in the future than the Institute has afforded up to the present time.

#### B.—METHODS OF INSTRUCTION.

1. *Systematic Courses of Teaching in Classes*, under a thoroughly capable and interesting instructor, who will use lectures, text-books, conferences, printed directions for reading and investigation, or any other legitimate and effective means of bringing his subject before his classes.

2. *Courses of Lectures*, accompanied by directions for reading and study, similar to courses that have already been given by other departments of the Institute.

3. *Courses of Popular Lectures*, calculated to interest and instruct very large numbers of our people, and also calculated to lead to the more systematic work indicated above.

4. *Special Addresses on National Holidays* and on occasions of great public interest, and calculated to foster true patriotism and the love of humanity.

#### C.—SUBJECTS TO BE PRESENTED.

##### I. GOVERNMENT.

- (1) Civil Government of the United States.
- (2) The History of American Politics.
- (3) The Political Institutions of Foreign Countries.
- (4) The Government of Cities.

##### II. POLITICAL ECONOMY.

- (1) Elementary Course in Political Economy.
- (2) Advanced Course in Political Economy.
- (3) Practical Problems in Political Science.
- (4) The Currency of the United States.

##### III. HISTORY.

- (1) Colonial History in America.
- (2) United States History.
- (3) Modern European History.
- (4) History of Civilization.

## IV. SOCIOLOGY.

- (1) Social Evolution and the Duties of Citizenship.
- (2) The Duty of the State to Dependent Classes.
- (3) The Nature of the True Republic.

The subjects in the foregoing groups are arranged in a progressive series. Number "1" in each group should be taken first. Individuals will be encouraged to select courses for which they are prepared by previous training.

Different phases of a subject like American History are presented in successive years, so that new themes are constantly brought before the public.

Each course of instruction comprises twenty-four lessons, in successive weeks, with a recess of one week at the Christmas holidays.

## D.—TERMS OF REGISTRATION.

The fees for registering in the School of Political Science are as follows :

One class, full year (24 weeks),	\$4 00
Two classes, full year (24 weeks),	7 00
Three classes, full year (24 weeks),	10 00
Four classes, full year (24 weeks),	12 00

## E.—PRIVILEGES OF MEMBERSHIP.

Members of the School of Political Science are entitled to free admission to all lectures given before the Department of Political Science. The following courses of lectures and addresses were given during the season of 1898-99 :

Six Lectures on "Switzerland and Her People," by WILLIAM D. MCCrackAN, PH.D., of New York.

Seven Lectures on "The Old World in the New," by the Rev. EDWARD G. PORTER, of Boston; the Rev. WILLIAM ELLIOT GRIFFIS, D.D., of Ithaca; Prof. JEAN CHARLEMAGNE

BRACQ, of Vassar College; Mr. JOSEPH P. WARREN, of Boston; Mr. EDWIN D. MEAD, of Boston; Miss ANNA B. THOMPSON, of Boston, and Prof. CHARLES H. LEVERMORE, PH.D.; respectively.

Four Lectures on "Early New England History," by the Rev. SAMUEL A. ELIOT, of Boston; Hon. ROBERT D. BENEDICT, LL.D., of Brooklyn, and Mrs. JULIA WARD HOWE, of Boston, respectively.

Five Lectures on "The Government of Cities," by Prof. WOODROW WILSON, LL.D., of Princeton University.

Eight Lectures on "The Leading Powers of Europe and Their Relations to the United States," by Prof. ARTHUR M. WHEELER, LL.D., of Yale University.

Six Lectures on "The Currency Situation in the United States," by Prof. SIDNEY SHERWOOD, PH.D., of Johns Hopkins University.

Six Illustrated Lectures on "The Countries of South America," by Mrs. FLORENCE JACKSON STODDARD, of New York.

Five Lectures on "The Spaniard and the Anglo-Saxon," by Prof. ALBERT BUSHNELL HART, PH.D.

Four Illustrated Lectures on "Geographical Subjects," by Prof. PATRICK GEDDES, F.R.S.E., of Dundee, Scotland.

Six Lectures on Special Subjects by Mr. WILLIAM W. ELLSWORTH, of New York; Mrs. FREDERICK DOUGLAS, of Washington, D. C.; Mr. ADELBERT M. DEWEY, of Washington, D. C., Mr. GEORGE T. DOWNING, of Newport, and the Rev. WASHINGTON GLADDEN, D.D., of Columbus, Ohio.

#### F.—LOCATION OF CLASS-ROOMS.

The classes connected with the School of Political Science, unless otherwise specified, meet in the Art Association Building, 174 Montague street, at the hours announced in the Prospectus.

For further information, inquiries may be made at the office of the Institute, 502 Fulton street.

## COURSES OF INSTRUCTION.

## I. THE COURSE IN CIVIL GOVERNMENT.

CONDUCTED BY MILO R. MALTBIE, M.A., PH.D.

MONDAY EVENINGS AT 8 O'CLOCK.

SATURDAY MORNINGS AT 9 O'CLOCK

## TREATMENT OF THE SUBJECT.

The treatment of the subject by the Instructor, while given from a strictly scientific point of view, is as free as possible from technicalities, and is without partisanship or dogmatism. Members of the class are encouraged to express their own convictions freely within the limits imposed by the course.

## TOPICS FOR STUDY AND INVESTIGATION.

## LOCAL GOVERNMENT.

Oct. 11, 1898.—*"The Origin of State and Civil Government."*

Oct. 18.—*"Objects and Functions of Government."*

Oct. 25.—*"Forms of Government."*

Nov. 1.—*"What Kind of Government Have We?"* Discussion: Should Members of Legislative Bodies Reside in the District which Elects Them?

Nov. 8.—*"The New England Town Meeting."*

Nov. 15.—*"The County System of the South."*

Nov. 22.—*"The Compromise System."* The New York and Pennsylvania Plans.

Nov. 29.—*"The American City."* Discussion: Is Direct Legislation Practicable in County and City Government?

Dec. 6.—*"What the City Does."*

Dec. 13.—*"Relations of the State Legislature to the City."* What is Home Rule?

Dec. 20.—*"Municipal Politics in Greater New York."* Discussion on subject to be chosen.

Jan. 3, 1899.—“*Origin and Evolution of the Commonwealth—the State.*”

STATE AND NATIONAL GOVERNMENT.

Jan. 10.—“*Powers of the Legislature.*”

Jan. 17.—“*The Executive and the Judiciary.*”

Jan. 24.—“*The National Government.*” Sources of the Constitution.

Jan. 31.—“*The President and the Speaker.*” Discussion: Should the President be Elected by a Direct Vote of the People?

Feb. 7.—“*The Senate.*”

Feb. 14.—“*The House of Representatives.*”

Feb. 21.—“*The Biography of an Act of Congress.*”

Feb. 28.—“*The Federal Courts.*” Discussion: Should Judges be Elected?

Mar. 7.—“*The Finances of the Government.*”

Mar. 14.—“*The Admission of States and the Amendments of the Constitution.*”

Mar. 21.—“*Suffrage and Selection of Federal Officers.*” Discussion: Should There be a Property Qualification for Voting?

Mar. 28.—“*Characteristic Features of the American Government.*”

Occasional discussions, at stated intervals, by selected disputants, upon controverted subjects connected with the course, constitute a popular and useful feature in connection with the study.

TEXT-BOOKS.

Professor JOHN FISKE'S admirable popular exposition of *Civil Government of the United States* is used as a text-book for the class, with Professor BRYCE'S *American Commonwealth* as a companion handbook. Other works are recommended for collateral reading in connection with the several topics.

## II. THE HISTORY OF AMERICAN POLITICS.

AN ADVANCED COURSE.

CONDUCTED BY MILO R. MALTBE, M. A., PH. D.

ON TUESDAY EVENINGS, AT 8 O'CLOCK, 174 MONTAGUE STREET.

This course is for the benefit of those who completed the course in Civil Government last year, or for those who may prefer the course of study herewith outlined.

It is the purpose of the Instructor to give a concise and correct history of our National Politics from the Revolutionary period to the present time, with some account of the great Statesmen and Political Leaders of our country. A clear statement of the facts of each political situation, with a just view of the great legal and constitutional questions involved in our political controversies, without partisan bias, enables the student to form an intelligent judgment upon the several topics.

### ORDER OF TOPICS.

#### THE FORMATIVE PERIOD.

*From the Revolution to the Compromise of 1850.*

Oct. 12, 1898.—“*The Politics of the Revolutionary Era.*” Whigs and Tories. Relation to English Politics. Triumph of the Patriotic Party.

Oct. 19.—“*Washington's Administration.*” Earliest Partisan Divisions. Federalists and Democrats. Hamilton and his Influence. The First Tariff, the Public Debt and the National Bank.

Oct. 26.—“*The Elder Adams.*” Foreign Complications, French and English Influences. The Alien and Sedition Laws. The Virginia and Kentucky Resolutions. Growth of Democratic Sentiment.

Nov. 9.—“*Jefferson and his Party.*” Triumph of the Democratic-Republicans. Strict Constructionists *vs.* Broad

Constructionists. The Louisiana Purchase. The Randolph Schism. The Burr Expedition. The Embargo.

*Nov. 16.*—“*Madison and the War of 1812.*” The War Party and the Peace Party. Federalism in New England. The Hartford Convention. Final Extinction of the Federal Party.

*Nov. 23.*—“*Monroe and the 'Era of Good Feeling.'*” Henry Clay and the Growth of Protectionist Sentiment. The Tariff of 1824. Earliest Phases of the Slavery Contest: the Missouri Compromise. Internal Improvements.

*Nov. 30.*—“*The Younger Adams.*” The Tariff of 1828. Increase of Protectionist Sentiment. Triumph of Internal Improvements. Calhoun and the Southern Free Trade Faction. Growth of the Jackson Democracy.

*Dec. 7.*—“*Andrew Jackson and the Nullification Movement.*” The National Republicans and Anti-Masonic Party. War on the National Bank. Birth of the Spoils System. The Tariffs of 1832 and 1833. The War on the United States Bank. Struggle for the Right of Petition.

*Dec. 14.*—“*Van Buren and the Panic of 1837.*” Causes of the Financial Disaster. Growth of the Whig Party. Success of the Independent Treasury Scheme. The Liberty Party and Its First Presidential Ticket.

*Dec. 21.*—“*Tippecanoe and Tyler, Too.*” Triumph of the Whig Party. The Accession of Tyler. His Contest With Congress. Anti-Slavery Agitation in Congress. The Tariff of 1842. The Texas Controversy. Abolitionists Hold the Balance of Power.

*Jan. 4, 1899.*—“*Polk and the Mexican War.*” Annexation of Texas. The Wilmot Proviso. Settlement of the Oregon Question. The Tariff of 1846. Slavery Dominant in the U. S. Senate.

*Jan. 11.*—“*Taylor, Fillmore and the Slavery Compromises.*” Intensification of the Slavery Agitation. The Squatter Sovereignty Doctrine. The Fugitive Slave Law and Personal Liberty Laws. The Free Soil Party.



## THE RECONSTRUCTION PERIOD.

*From the Compromise of 1850 to the Present.*

*Jan. 18.*—"Pierce and the Kansas Controversy." Return of the Democrats to Power. Death of the Whig Party. The War in Kansas. Revival of Internal Improvements. The Know Nothing or American Party. Birth of the Republican Party. The Tariff of 1857.

*Jan. 25.*—"Buchanan and the Encroachments of the Slave Power." The Dred Scott Decision. Filibustering Expeditions. Continuation of the Kansas Troubles. The Homestead Law. The John Brown Raid. Division of the Democratic Party. The Constitutional Union Party. Election of Abraham Lincoln.

*Feb. 1.*—"Lincoln and the Abolition of Slavery." The Civil War. The Union Party. Democratic Divisions. Tariff and Internal Revenue Laws. National Bank Law. The Emancipation Proclamation and Constitutional Amendment.

*Feb. 8.*—"Andrew Johnson's Administration." Attempted Impeachment. The Tenure of Office-holding. Contest between Congress and the President on Reconstruction. Discussion: "Would the Impeachment and Removal of President Johnson Have Been Beneficial to the Republic?"

*Feb. 15.*—"Grant and Reconstruction." Progress of Reconstruction. The Ku-Klux Klan. The Legal Tender Decisions. The San Domingo Affair. Civil Service Reform. The Liberal Republican Movement. The Granger Movement. The Resumption Law and Civil Rights Act. Samuel J. Tilden and the Tweed Ring. "Reform Within the Party."

*March 1.*—"Hayes and the Disputed Election of 1876." Southern Outrages and Returning Boards. Visiting Statesmen. The Electoral Commission. Cipher Telegrams. Resumption of Specie Payments. Progress of Civil Service Reform. The Greenback Labor Party. The Prohibition Party. Democratic Majorities in Congress. The Silver Question. The Chinese Question.

March 8.—“*The Garfield-Arthur Administration*” “Senatorial Courtesy” and Presidential Appointments. The Conkling Episode. Assassination of Garfield. Progress of Civil Service Reform. The Tariff Commission and Tariff of 1883. The Morrison Bill. The Knights of Labor. Mugwumps.

March 15.—“*Cleveland's First Administration.*” Progress of Civil Service Reform. The Presidential Succession Bill. The Electoral Count Bill. Repeal of the Tenure of Office Act. The Inter-State Act. The Tariff Message. Chinese Expulsion Act. Status of the Temperance Question. The Pension Laws and Presidential Vetoes.

March 22.—“*The Second Harrison.*” The Blaine Manifesto and Controversy over the Nomination. Tariff Discussions. The McKinley Bill. Growth of the Labor Movement. The People's Party. Status of Civil Service Reform.

March 29.—“*The Anti-Slavery Conflict.*” A Comprehensive Review of the Movement Which Culminated in the Civil War and the Abolition of Slavery.

April 5.—“*The Tariff Issue in American Politics.*” Its Different Phases. Relation of High and Low Tariffs to the Advance in Manufacturing Industries, and to Periods of Financial Prosperity and Depression.

April 12.—“*The Present Political Situation.*” Cleveland's Second Term. The Silver Question. The Tariff and Income Tax. Foreign Complications. Outlook for the Future.

#### TEXT-BOOKS.

Professor ALEXANDER JOHNSTON'S *History of American Politics* is used as a text-book for the class, with BRYCE'S *American Commonwealth* and STANWOOD'S *History of Presidential Elections* as companion handbooks. Other works are recommended for collateral reading in connection with each topic.

### III. THE POLITICAL INSTITUTIONS IN EUROPE.

AN ADVANCED COURSE.

CONDUCTED BY PROF. WILLIAM C. WEBSTER, M.A., PH.D.

ON WEDNESDAY EVENINGS, AT EIGHT O'CLOCK, 174 MONTAGUE STREET.

This Course is arranged to follow those on Civil Government in the United States and American Politics.

The plan of the Instructor is to give a correct outline view of the origin and growth of Political Institutions in Europe, their present status, and the causes now operating to produce changes hereafter. The comparative method of study is encouraged, and the bearing of European experience on the problems of American politics is noted and emphasized.

#### ORDER OF TOPICS.

HISTORICAL RETROSPECT ; FRANCE, GERMANY, HOLLAND, BELGIUM, AND THE SWISS REPUBLIC.

Oct. 13, 1898.—“*The Government of Ancient Greece.*” Kinship and Custom. The Patriarchal Presidencies. Family Groups. The Ancient City. Athens and Sparta. Popular Assemblies. Federations and Leagues. Greek Colonization. Religion in the Ancient State.

Oct. 20.—“*The Government of the Roman Empire.*” The Ancient Kingdom. The Republic. The Senate. Growth of Plebeian Influence. Genesis of the Empire. Government of the Provinces. Roman Citizenship and Roman Law. Its Codification.

Oct. 27.—“*Government During the Middle Ages.*” Teutonic Influences and Institutions. Mutual Influences of the Teutonic and Roman Systems. Land Tenure. The Feudal System. Towns, Guilds and City Leagues. The Church as Affecting Civil Institutions.

Nov. 3.—“*Growth of the French Monarchy.*” The Feudal System in France. Evolution of Local Government. Liberties of Towns. Decay of Local Government. The States-General. Personal Government of the King and Intendant.

Influence of the French Revolution. Decay of the Feudal System. Reconstruction by Napoleon. The Constituent Assembly. Communes and Departments. The Code Napoleon.

*Nov. 10.*—“*Government of the French Republic.*” The Royal Interregnum. The Later Kingdom and Second Empire. The Plébiscite. Constitution of the Republic. The National Assembly. Senate and Chamber of Deputies. President and Cabinet. Ministerial Responsibility.

*Nov. 17.*—“*Local Government in France.*” The Departments. Arrondissements, Cantons and Communes. Power of the Prefect. Departmental and Communal Councils, Mayors. Administration of Justice. Scrutin de Liste, and Scrutin d'Arrondissement.

*Nov. 24.*—“*Government of Holland and Belgium.*” William of Orange and the Federal Republic. Origin of the Kingdom. The Two Legislative Bodies. Influence of the Netherlands on the United States. Local Government and Education. Separation of Belgium from the Netherlands. The Constitution of 1831. Liberality of Government. The Responsible Ministry. Provincial and Communal Councils. Independent Judiciary. Power of the King.

*Dec. 1.*—“*Evolution of Government in Germany.*” Feudalism. Grafts and Barons. The First Empire. The Interregnum and Electors. Imperial Cities. Rivalry of Prussia and Austria. The Confederation. Napoleon's Influence. Constitutional Reform in 1848. Separation of Austria from Germany.

*Dec. 8.*—“*Government of the German Empire.*” Its Federal Constitution. Powers of the Emperor. The Bundesrath. The Reichstag. Imperial Administration. The Judiciary Citizenship. The Prussian Landtag and House of Representatives.

*Dec. 15.*—“*Local Government in Germany.*” The Mark Brandenburg. Municipal Councils. Markgrafs and Burggrafs. The Vogt. Government Districts. Provinces and

Circles. The Folk-Moot and Manors. District and Circle Committees. Rural and City Communes. City Government in Berlin.

Dec. 22.—“*Federal Government in the Swiss Republic.*” Feudalism in Switzerland. Cantonal Independence and Federation. The Pact of 1815 and Constitution of 1848. National and Cantonal Sovereignty. Functions of the Executive and Legislature. The Federal Courts.

Jan. 5, 1899.—“*Cantonal and Local Government.*” Cantonal Constitutions and Legislatures. Democratic Character of Local Government. The Folk-Moot. The Initiative and Referendum. The Plural Executive. Districts, Communes and Communal Councils.

AUSTRIA, SWEDEN, DENMARK, ENGLAND, RUSSIA, ITALY, SPAIN  
AND PORTUGAL. THE SMALL STATES: GREECE,  
ROUMANIA, SERVIA, BULGARIA, MONTENEGRO,  
MONACO, SAN MARINO AND ANDORRA.

Jan. 12.—“*Government of Austria Hungary.*” Composition of the Empire. Union of Diverse Races. Home Rule and Local Autonomy. Dual Legislatures and Common Ministries. National and Provincial Legislatures—the Reichsrath and Landtags. The Hungarian Reichstag. Shires, Cities and Communes.

Jan. 19.—“*The Government of Sweden, Norway and Denmark.*” Early Institutions. Union of Sweden, Norway and Denmark in 1397. Sweden’s Separation and Growth of Her Civil Institutions. The Four Estates. The King, Council and Riksdag. Democratic Revolution in Norway. The Storting. Joint Councils and Concurrent Legislature. Dual Citizenship. Local Government: Districts and Communes. Denmark: The Folksting, Landsting and Privy Council.

Jan. 26.—“*Evolution of the English Monarchy.*” Early Teutonic Institutions. The Hundred Moot, Folk-Moot and Witenagemot. Norman Feudalization. Union of Kingdoms. The Great Council. Simon de Montfort and the

First Parliament. Genesis of the Two Houses. Limitations of the Powers of the Monarch.

*Feb. 2.*—“*Parliamentary Government in England.*” The Executive. The King and Cabinet. Parliamentary Responsibility. Executive Departments. The House of Commons. County and Borough Representatives. The House of Lords: Its Functions in Legislation. The Government of Ireland and Scotland.

*Feb. 9.*—“*The British Judiciary System.*” Judicial Functions of the House of Lords. Circuit Judges. The Court of King’s Bench, Court of Common Pleas, Court of Exchequer and Court of Chancery. The Reforms of 1873–1877. County Courts. Quarter and Petty Sessions. The Constabulary.

*Feb. 16.*—“*Local Government in Great Britain.*” Its Complex Character. Counties, Towns and Parishes. Boroughs and Cities. The Reforms of 1835 and 1888. County Councils. Sanitary Districts. Powers of Municipal Corporations. School Districts. The Government of London, Glasgow and other Boroughs and Cities. Government of the British Colonies.

*Feb. 23.*—“*The Smaller European States.*” The Government of Greece, Roumania, Servia, Bulgaria and Montenegro. The Principality of Monaco. The Republics of San Marino and Andorra. NOTE—Turkey is omitted from this course of study as belonging more properly to Asia.

*Mar. 2.*—“*Imperial Government in Russia.*” Supreme Legislative, Executive and Judicial Powers United in the Emperor. The Four Councils: Committee of Ministers, Council of the Empire, Senate and Holy Synod. Legislative, Administrative and Financial Departments. Organization of the Judiciary. Judicial Functions of the Senate. Jealous Control of Local Institutions.

*Mar. 9.*—“*Local Government in Russia.*” The *Mir*. Its Democratic Constitution. Representative Government in the *volost* and *zemstvo*, or Provincial Assembly. The Three

Classes of Delegates. Justices' Courts. The Government of Municipalities. Functions of the Mayor, *duma* and *uprava*. Taxation and Subordination to Imperial Government.

Mar. 16.—“*The Government of Italy.*” Subordination of King to Parliament. The Responsible Ministry. Bi-cameral Legislature. How the two Houses are Constituted. Evolution of the Commune. Communal and Provincial Councils. The *Sindaco*—How Appointed. The Three Orders of Communal Councils. Local Freedom from Interference by the Central Government.

Mar. 23.—“*Government of Spain and Portugal.*” Similarity of their Institutions. The Spanish Cortes : its two Houses. Responsibility of the Ministry. The Eight Departments. Spanish Law and Judiciary. The Code of 1501. Provincial Councils and Governors. The Commune or Township. Portugal: The House of Peers and House of Deputies. Administrative and Judicial Districts. The *Concelhos* (Administrative Councils) and *freguezias* (parishes). Education.

Mar. 30.—“*Recent Tendencies in European Politics.*” Growth of Federations. Influence of Democratic Ideas. Expansion of Suffrage. Socialistic and Reactionary Movements. Arbitration and “Armed Neutrality.” The Problem of City Government in Europe.

#### TEXT-BOOKS.

Prof. WOODROW WILSON'S work on *The State* and Prof. VINCENT S. WALSH'S *Nations of the World* are recommended as text-books for the classes in European politics. Other reliable helps are suggested from time to time by the Instructor.

## IV. THE COURSE IN SOCIOLOGY.

CONDUCTED BY PROF. WILLIAM C. WEBSTER, M.A., PH.D.

THURSDAY EVENINGS, 8 O'CLOCK, AT 174 MONTAGUE STREET.

## TREATMENT OF THE SUBJECT.

The Instructor endeavors to present a clear and definite statement, as free as possible from technicalities, of the present status of social science, with its true relation to physics, biology, psychology and political science.

As far as practicable, the laboratory or seminar method is introduced; observation and original investigation are encouraged by the student, who is taught to see with his own eyes and to cultivate reliance on his own judgment, when duly trained and educated, rather than to accept social theories evolved by other minds and dogmatically inculcated.

## ORDER OF TOPICS.

## THURSDAYS.

Oct. 14, 1898.—“*How to Study Sociology.*” Need and Nature of a Social Science. Difficulties—Objective and Subjective. Different Kinds of Bias Affecting Social Judgments. Discipline and Preparations Necessary for the Study.

Oct. 21.—“*Social Relations of Primitive Man.*” Archæological Evidences. Bone Caves and Kitchen-Middens. Lake Dwellings and Burial Places. The Great Antiquity of Man.

Oct. 28.—“*Art and Industry of Early Races.*” The Discovery of Fire. Influence of the Human Hand on Man's Mental and Social Development.

Nov. 4.—“*Language as a Factor in Social Evolution.*” Expression in Animals and Men. Origin and Growth of Language. Community of Language as a Social Force. Language as an Index of Civilization. Influence of Writing and Printing.

Nov. 11.—“*Religious Ideas of Primitive Man.*” Animism and Ghost Worship. Cult of the Family Altar. Influence



of Religion on Social Development. "The Everlasting Reality of Religion."

Nov. 18.—"*Social Growth.*" Is Society an Organism? Social Structures and Functions. The Sustaining, Distributing and Regulating Systems of Society. Relation of Sociology to Biology.

Dec. 2.—"*Domestic Institutions.*" The Family the First Social Combination. Growth of the Marriage Relation. Influence of Prolonged Human Infancy. Status of Women and Children.

Dec. 9.—"*Ceremonial Institutions.*" Their Origin, Development and Influence on Social Evolution. Ecclesiastical Institutions. Titles and Class Distinctions. Mutilations. The Taboo. Caste. Survivals.

Dec. 16.—"*Political Institutions.*" Patriarchal, Monarchical and Popular. Ministries and Representative Bodies. Evolution of the Democratic Republic.

Dec. 23.—"*Professional and Industrial Institutions.*" Property Rights and Revenue. Early Communism and Socialism. Evolution of Individuality. Land Tenure in Different Stages of Social Evolution.

Jan. 6, 1899.—"*Militantism and Industrialism.*" Militant Type of Early Societies. Influence of War on Civilization. Guilds and Trade Organizations; their Influence on Social and Political Development.

Jan. 13.—"*Development of Sociology.*" Its Relation to the Exact Sciences. Contributions of Comte and Spencer. Relation of Sociology to Economics, Political Science, and other Special Sciences. Static and Dynamic Sociology.

Jan. 20.—"*Sociology and Social Reforms.*" How Social Science Corrects Crude and Ineffectual Efforts for Human Betterment. Importance of a Scientific Study of Social Facts.

Jan. 27.—"*A Study of Social Evolution.*" The Family, Clan, Hundred, Tribe, City, State. Nomadic, Agricultural and Commercial Phases in Social Development.

Feb. 3.—“*The Family on the Farm.*” Physical Characteristics: Soil, Waterways, Climate, Exchange of Products. Mode of Communication with the Outside World. Division of Occupations. Formation of the Rural Group. Its Activities.

Feb. 10.—“*Growth of the Village Community.*” Improved Economic Arrangements. Specialization of Social and Industrial Activities. Formation of Social Groups. Evolution of Civic Pride and the Conception of Social Unity.

Feb. 17.—“*Evolution of the City.*” Continued Differentiation of Social and Industrial Activities. Increase of Wealth, and Development of Social Groups Dependent Thereon. Closer Communication and Sympathy with the World-at-Large. Influence of the City on Civilization.

Feb. 24.—“*Wealth as a Social Factor.*” Evolution of Capital and the Capitalist. Their Function in Social Growth. Uses and Abuses of Wealth, and the Means by Which it is Acquired. The Psycho-physical Communicating Apparatus. Letters. Newspapers. The Post Office. The Pulpit and Forum. The School.

Mar. 3.—“*Social Pathology; Diseases of Plethora and In-nutrition.*” Influence of Poverty and Wealth on the Domestic Relations. Unhappy Marriages—Their Causes. Divorce. Causes of Poverty, Vice and Crime. Relation of Physical to Social Health.

Mar. 10.—“*Diseases of Social Congestion.*” Malthusianism. Abnormal Growth of Cities. The Problem of Immigration. Causes of Our Bad Municipal Arrangements. Comparison of American with European Conditions.

Mar. 17.—“*Pathology of the Productive Functions.*” Dangerous Occupations. Unhygienic Conditions of Labor. Over Production. Wastes Due to Competition. Functions of Corporations and Trusts. Panics, Strikes and Lockouts. Unequal Distribution of Labor and its Products.

Mar. 24.—“*Pathology of the Functions of Communication and Control.*” Defects of the Newspaper Press, Vicious

Literature. Failure of the Family and School to Socialize Individuals. Relation of the Church to Social Question. Nature and Operation of Genuine Reforms.

Mar. 31.—“*Social Psychology*.” Relation of the Individual to Society. The Nature of Social Knowledge. The Phenomena of Authority. Authority of Individuals, Groups and Institutions. Social Consciousness and Social Automatism.

April 7.—“*How Social Changes are Effected*.” Influence of Parties and Combinations. Churches, Clubs and Political Associations. Formation of Social Feeling and Judgment. Social Volition and Execution. Morality and Law.

#### TEXT-BOOKS

Joly's *Man Before Metals* (International Scientific Series) and Small and Vincent's *An Introduction to the Study of Society* are commended as text-books in connection with this course on Elementary Sociology, with Spencer's *The Study of Sociology* and *Principles of Sociology* and Bagehot's *Physics and Politics* for collateral reading and reference.

### V. COURSE IN POLITICAL ECONOMY.

CONDUCTED BY MR. FREDERICK M. CORSE, M.A.

FRIDAY EVENINGS, 174 MONTAGUE STREET.

#### PURPOSE OF THE COURSE.

The course in the Elements of Economics is designed to afford to those who complete it a competent knowledge of the fundamental principles of the science, together with some insight into the proper method of their application to the concerns of life.

The attempt is made to investigate, in a spirit of entire impartiality, such questions as come up for discussion. Members of the classes are encouraged to express their convictions freely within the limits of the course.

The methods of instruction are adapted to the needs of those taking the course. Dr. Francis A. Walker's *First Lessons in Political Economy* is used as a text-book, with frequent references to other authors representing various schools of theory, for collateral reading.

#### TOPICS FOR INVESTIGATION.

Oct. 29, 1898.—“*Introduction.*” 1. The Growth of Free Industry and Enterprise. The Economic Life of Uncivilized, Semi-Civilized and Civilized Man. 2. The Industrial Revolution in England. Outline of the Economic History of the United States. 3. The Growth of Economic Science in France, in England, in Germany, and in the United States. 4. Subjects which the Economist has to Investigate. 5. Objects of the Study of Political Economy and its Relations to the other Sciences. 6. Popular Notions Upon Political Economy.

Nov. 5.—“*Definitions and Fundamental Notions.*” 1. Political Economy, the Science which Treats of the Nature, Consumption, Production and Distribution of Wealth. 2. By Wealth is to be Understood that which is Transferable, Limited in Supply and Useful. 3. Distinction Between Value and Utility, or Usefulness. 4. Production, its Nature and the Various Views of Productivity. 5. The Factors of Production: Land, Capital, Labor and Intelligence. 6. The Conditions of Production Consist in the Union of these Factors at the Best Time, at the Best Place, and in the Best Manner.

Nov. 12.—“*The Primary Factors of Production—Land and Labor.*” 1. Land Renders Three Services—furnishes “Standing Room,” contains Elements for Plant Life, and contains Useful Products below the Soil. 2. Fertility of the Land. The Law of *Diminishing Returns*. 3. Exhaustion of the Soil and the Natural Renewal of the Soil. 4. Physical Geography of the United States, Climate, Mineral Resources, Farms and Farm Products. 5. *Labor*. Conditions of Labor

in the Hunter State, the Pastoral State, the Agricultural State, and the Modern Industrial State.

*Nov. 19.*—“*Labor as a Productive Agent.*” 1. Supply of Labor. The Population Question; Growth and Economic Analysis of Population. 2. Movement of Population, Emigration and Immigration. 3. Social and Economic Influence of Migration. 4. Productivity of Labor; Skill, Efficiency and Trustworthiness of Labor; Division and Modern Organization of Labor. 5. Steam Power and Machinery.

*Nov. 26.*—“*Capital as a Productive Agent.*” 1. Origin and History of Capital. 2. Relation of Capital to Labor. 3. Statistics of Capital. 4. Views of the Socialists Respecting Capital. 5. Production on a Large and on a Small Scale.

*Dec. 3.*—“*Exchange as a Productive Operation.*” 1. History of Commerce. 2. Advantages of Commerce. The Mercantile System; The Modern System of Commerce; Free Trade in England; Protection in France and Germany; Sketch of the Tariff History of the United States. 3. Highways, Canals, Railroads and their Economic Significance.

*Dec. 10.*—“*Definitions in Exchange.*” 1. Value, Price, Market, Money, Credit, Competition, Supply and Demand. 2. Competition, Past and Present; Monopoly. 3. Normal Price and Production at the Greatest Disadvantage. 4. Wholesale and Retail Trade, and the Action of Competition in These Two Fields.

*Dec. 17.*—“*The Machinery of Exchange, Coin, Credit, Money, and Political Money.*” 1. Money—Popular, Legal and Economic Idea Respecting Money. History of the Precious Metals. Money as a *Medium of Exchange*. 2. Barter—Economic Conditions under Barter. 3. Coinage, Seigniorage, Debasement of Coins. 4. Gold and Silver as Money. 5. History of Coinage in the United States.

*Jan. 7, 1899.*—“*Money as a Measure of Value and Standard of Value.*” 1. Desirable Qualities of Coin Money. 2. Theory of Bimetallism; History of the Latin Union; Bimetallism

in the United States. 3. The Silver Question in the United States. 4. Ideal Money : What is a Standard of Value ? "An Honest Dollar."

*Jan. 14*—“*Credit, Banks and Banking.*” 1. Nature and History of Credit. 2. Credit and Crisis ; History, Characteristics and Causes of Commercial Crises. Low Prices since 1873 ; Has Gold Appreciated Since That Date ? 3. The Banking Systems of England, France and Germany. 4. History of Banking in United States. 5. Fiat Money ; Paper Currency in United States.

*Jan. 21.*—“*Distribution as a Department in Economics—Rent.*” 1. The Claimants to the Product of Industry. 2. Rent, the Price Paid for the Use of Land ; Differences in Fertility and Productivity of Land 2. Rent with and without Free Land. 4. Law of Rent ; its Application to Mining, Fisheries, City Lots, Forestry. 5. The Ownership of Land, Common and Private. 6. The Unearned Increment of Land Rent ; Views of J. S. Mill and Henry George upon Land Nationalization. 7. Advantages of and Objections to National Land Ownership.

*Jan. 28.*—“*Wages. The Laborer as a Claimant to the Product of Industry.*” 1. Real and Nominal Wages. 2. Rate of Wages in Different Industries. 3. Industrial Efficiency and Rate of Wages. Explanation of High Wages in America. 4. Influence of Competition in the Labor Market ; Cheap Labor and High Paid Labor. 5. Demand and Supply in Relation to Labor. 6. The Wage Fund Doctrine, its History and Influence. 7. Modern Theories of Wages.

*Feb. 4.*—“*The Wage Question Considered Historically and Practically.*” 1. Imperfect Competition between Capitalists and Laborers, and the Conflict Resulting Therefrom. 2. Significance of a *Standard* of Life, Socially and Economically Considered. 3. Labor Organizations ; Trades Unions, Knights of Labor, etc. 4. Arbitration, Profit Sharing, and Co-operation. The Function of Each in Adjusting Labor Difficulties.

*Feb. 11.*—“*Interest, the Earnings of Capital.*” 1. Distinction between Economic Interest and the Rate of Interest in the Market. 2. The Value and Productivity of Capital. 3. Explanation of a High and of a Low Rate of Interest. Risk and the Supply and Demand of Capital. 4. The Abstinence Theory of Interest; Modern Theories of Interest. 5. History of Usury and Modern Usury Laws.

*Feb. 18.*—“*Profits, the Earnings of Management.*” 1. The Manager of Industries and his Industrial Importance. 2. Profits, Determined Like Rent—Measured from the No Profit Manager Upward. 3. Relation of Profits to Wages and to Prices in General. 4. Competition in Industries Giving Way to Combination. Hence, Monopoly Profits and the Ethical Questions Involved.

*Feb. 25.*—“*Economic Effects of Imperfect Competition.*” 1. Society in Its Relation to the Landlord, the Capitalist, the Employer and the Wage Earner. 2. Comparative Strength of the Different Claimants. 3. Wages and Public Opinion. 4. Evils Resulting from the Displacement of Labor. 5. A Well-defined Standard of Life, a Source of Strength to Labor. Social Significance of Increasing Wants among the Laboring Population, and the General Good Resulting from Enlarged Consumption.

*Mar. 4.*—“*Consumption the Correlate of Production.*” The Satisfaction of Human Wants the Purpose of all Economic Activity. 1. Consumption and Destruction; Confusion of the Popular Mind on this Point. 2. Development and Refinement of Wants. 3. Adaptation of Food Consumption to Environment. 4. Consumption and Savings, Savings Banks, Insurance, etc. 5. Luxury. “Consumption Should be Proportioned to Wants and Capacity for Development.” Useless Luxury Misdirects Productivity, and Impoverishes a Community.

*Mar. 11.*—“*Public Industry and the Relation of the State to Private Enterprise.*” 1. Scope and Power of State Action. 2. Private Property Guaranteed by the State; History and

Justification of Private Property. 3. Trade-marks, Copyrights and Patents. 4. State Participation in Industry; Roads, Harbors, Public Health, Education, etc. 5. Advantages and Disadvantages of Enlarged State Activity.

*Mar. 18* — "*State Regulation of Industry by Taxation.*" 1. Internal Taxes and their Influence on Industry. 2. Customs Duties Defined; their Value as a Chief Source of Revenue. 3. Free Trade and Protection; Theoretical Considerations. 4. Questions Involved in Free Trade and Protection. 5. *a.* Financial. *b.* Industrial. *c.* Social.

*Mar. 25*. — "*Résumé of the Course.*" 1. Economic Questions Prominent in Society and Politics to-day. 2. Ethics and Economics. 3. The Value of Enlightened Public Opinion upon Economic Questions. 4. The Political Economy of the Future.

## VI. GENERAL POLITICAL ECONOMY AND FINANCE.

CONDUCTED BY MR. FREDERICK M. CORSE, M.A.

THURSDAY EVENINGS, 174 MONTAGUE STREET.

In presenting this course, the Instructor has endeavored to bring into the field of Economics many topics of every day interest, and discuss most of them from the economic standpoint. If there has been a breaking away from the usual method of presenting economics, it has been done consciously, and with the hope that this less formal treatment of the subject may prove both interesting and profitable. Money and Taxation occupies the first ten lectures, while the last ten lectures are devoted to Economic Questions of public interest. Once in three weeks a part of the evening is given over to a set debate upon some topic suggested by the lectures, and every pains is taken to make this part of the course of great profit to all who take part. Each evening a complete syllabus of the lecture with references to the literature on the subject, is left in the hands



of all members of the class, and a few minutes of discussion is allowed at the beginning of each evening, upon the subject of the preceding evening. The books that are profitable for the class to consult are suggested from time to time as the topics change; no *one* book will answer for the course.

#### MONEY AND MONETARY PROBLEMS.

Oct. 28, 1898.—*Elements of Money and its Functions.* Contrast of Social Conditions under Barter Economy and Money Economy. How much Money does a Community Need?

Nov. 4.—*Growth of Banking Facilities.* The Place Banks fill in Modern Society. The National Bank of the United States.

Nov. 11.—*The Plea for More Money.* The Silver Question: the Theory of Bimetallism, and the History of the Latin Union.

Nov. 18.—*Bimetallism in the United States up to 1873.* Recent Silver Legislation; Money and Wages. Economic Conditions of the South and West.

Dec. 2.—*Legal Tender in the United States.* The Present Currency Question. Should the Greenbacks be Retired? Political Issues Connected with the Money Question.

#### TAXATION AND FINANCE.

Dec. 9.—*The Development of Taxation and the Growth of Government.* Voluntary and Compulsory Taxes; Forms of Direct Taxation; Changes in the Basis of Taxation.

Dec. 16.—*Taxation in the United States a General Property Tax.* History of the General Property Tax, and its Practical and Theoretical Defects. Evasion and Perjury Under the Present System.

Dec. 23.—*The Single Tax, What Is It and the Theory Upon Which It Is Based.* Its Political, Financial and Ethical Defects. How it would Operate upon Different Classes in the Community.

Jan. 6, 1899.—*Taxation of Corporations.* How These Taxes

Have Grown Up in the United States. Taxation of Franchises and Abuses in this Department. Who Pays the Taxes?

*Jan. 13.—The Income Tax.* Its History in Europe. Need the Income Tax be Inquisitorial? Income as the Measure of Ability to Support the Government. Prejudices Against Such a Tax in America. The Future of the Income Tax in the United States.

DISTRIBUTION OF WEALTH AND ALLIED TOPICS.

*Jan. 20.—The Parties Who Claim the Wealth Produced.* The Shares that in Theory go to each Claimant. Returns to Capital and Labor, and the Competition that Exists Between Them.

*Jan. 27.—A General History of the Laboring Man.* The Present and Past Conditions of Labor. Conditions under which the Laboring Man can Produce the Most and Realize the Most for his Labor.

*Feb. 3.—Land and Rent.* Theory of Rent. Land Holding in England, France and the United States. The Modern Tendency to Large Properties in Land. Agriculture in the States, and the Grievances of the Agricultural Classes. The Meaning of the Low Price of Agricultural Products.

*Feb. 10.—Capital.* How it Came into Existence. The Important Position it has Taken in Modern Industry, and the Claim it Makes Upon the Product of Industry. Interest and Profits Distinguished. The Manager of Industry and Increase of Capital.

*Feb. 17.—Does Poverty Increase with Progress?* Significance of the Great Fortunes of To-day. Do they Endanger the Stability and Peace of Society? Legislation that has Favored Fortune Building.

PUBLIC QUESTIONS FROM THE ECONOMIC STANDPOINT.

*Feb. 24.—Competition.* Freedom of Exchange. Competition Among Merchants. Competition Among Producers

and Laborers. Effects of Competition Good or Bad. According to the Relative Strength of the Competitors. Defeated by Custom, Ignorance and Combinations.

*Mar. 3.—Speculation.* Gambling and Speculation. Legitimate and Illegitimate Transactions. Insurance. Industrial Speculation.

*Mar. 10.—Machinery and Labor.* To what Extent Does Machinery Displace and Degrade Labor? Labor Organizations. The Living Wage. Are the Interests of the Laborer and the Capitalist Opposed?

*Mar. 17.—Co-operation.* Profit Sharing, Producers, and Consumers' Co-operation. To what Extent is Government Management of Enterprise Advisable?

*Mar. 24.—Protective Legislation.* The Eight-Hour Movement. Prison Labor. Restriction of Emigration. Protective Tariffs. The Financial, Industrial and Political Questions Involved.

This course in General Political Economy and Finance was repeated by Mr. CORSE on Tuesday and Friday afternoons during the months of January, February and March for the benefit of those who were unable to attend on Thursday evenings.

## VII. COURSE IN AMERICAN COLONIAL HISTORY.

UNDER THE INSTRUCTION OF PROF. WILLIAM  
C. WEBSTER, M.A., PH.D.

ON FRIDAYS, AT 8 P.M., 174 MONTAGUE STREET.

*Oct. 15.*—"The Old World and the New in the Fifteenth Century."

*Oct. 22.*—"The Old World Discovers and Claims Ownership of the New."

*Oct. 29.*—"England's Share of the New World. The Northern Colonies."

- Nov. 5.*—"The Southern Colonies of Great Britain."
- Nov. 12.*—"The Middle Colonies of Great Britain."
- Nov. 19.*—"The Island Colonies of Great Britain."
- Nov. 26.*—"The Social and Economic Conditions Developed in the Northern Colonies."
- Dec. 3.*—"The Social, Racial and Economic Conditions Developed in the Southern Colonies."
- Dec. 10.*—"The Social, Political and Economic Conditions Developed in the Middle Colonies."
- Dec. 17.*—"How England Controlled Her Colonies. Machinery of the Home Government: Parliament, the Privy Council, the Board of Trade."
- Jan. 7.*—"The Machinery of Government in the Colonies: The Governor, Customs Officers, Admiralty Officers."
- Jan. 14.*—"Ecclesiastical Control in the Colonies."
- Jan. 21.*—"Trade and Commerce."
- Jan. 28.*—"Colonial Manufactures."
- Feb. 4.*—"Piracy."
- Feb. 11.*—"The Paper Money Craze. Shay's Rebellion."
- Feb. 18.*—"Colonial Defense."
- Feb. 25.*—"Indian Relations."
- Mar. 4.*—"Spanish Colonization in America."
- Mar. 11.*—"New France."
- Mar. 18.*—"The Rivalry of France and England in the New World."
- Mar. 25.*—"The French and Indian War."
- April 1.*—"Growth of Colonial Union."
- April 8.*—"Conditions which Led to the American Revolution."

The text-books and reference books were announced by the Instructor. The study was illustrated by the best appliances for teaching history.

## SCHOOL OF POLITICAL SCIENCE.

## REGISTER OF STUDENTS.

MISS M. E. BARKER,	MISS JOSEPHINE HOWARD,
MISS MARI M. BARRETT,	MISS E. HUGHAN.
DAVID S. BRASLEY,	RICHARD W. HUMPHREYS,
J. G. BOSWORTH,	STEPHEN M. KEATING,
GEORGE J. BRYAN,	MISS HELEN MACGREGOR,
MISS EVA F. BUKER,	DAVID MITCHELL,
FREDERICK B. CAMPBELL,	MRS. DAVID MITCHELL,
MISS A. H. CHITTENDEN,	J. CLYDE OSWALD,
JAMES COCHRAN,	CHARLES REEVF,
MISS EMMA L. DENNIS,	ALEXANDER B. RICHARDS,
F. J. W. DILLER,	F. ST. J. RICHARDS,
MISS G. M. W. FANNING,	MISS E. L. SCHEIKER,
MISS MARIA N. HART,	MISS JENNIE M. SCHOONMAKER,
	A. ST. L. TRIGGE,

Under the auspices of the Department, a Course of Eight Lectures on Law, and on subjects that were of particular interest to women, were given by Mrs. CORNELIA K. HOOD, LL.B., of Brooklyn, on successive Thursday afternoons, beginning January 12.

The lectures were presented on the plan of the Law Lectures for Women, given under the auspices of the Law School of the University of New York, and are fully described under the Department of Law.

## DEPARTMENT OF PSYCHOLOGY.

PRIN. ALMON G. MERWIN, PD.D.,	<i>President.</i>
MISS A. E. WYCKOFF,	} <i>Vice-Presidents.</i>
PROF. FREDERICK W. OSBORN, M.A.,	
WILLIAM W. LAING, M.D.,	<i>Secretary.</i>

*Executive Committee.*

ALMON G. MERWIN, PD.D.	JOHN C. SHAW, M.D.
PROF. FREDERICK W. OSBORN, M.A.	MRS. FRANKLIN W. HOOPER.
PROF. BRAINERD KELLOGG, LL.D.	MISS A. E. WYCKOFF.
WILLIAM W. LAING, M.D.	

*Committee on Physiological and Pathological Psychology.*

JOHN C. SHAW, M.D.	WILLIAM BROWNING, M.D.
ALBERT M. CURRY, M.D.	ROBERT G. ECCLES, M.D.
MISS A. E. WYCKOFF,	WILLIAM W. LAING, M.D.

*Committee on Systematic Psychology.*

Prof. BRAINERD KELLOGG, LL.D.	MISS CHRISTINA ROUNDS.
Prof. FREDERICK W. OSBORN, M.A.	MISS SARAH E. SCOTT, M.A.
EDGAR D. SHIMER, PD.D.	MISS MARY DAVENPORT.

*Committee on Psychological Research.*

Prof. FREDERICK W. OSBORN, M.A.	J. HOBART BURGE, M.D.
MISS A. E. JOHNSON.	MISS MARIE L. BURGE.
JAMES CRUIKSHANK, LL.D.	PRIN. F. L. LUQUEER.

*Committee on Educational Psychology.*

Mrs. FRANKLIN W. HOOPER.	Prof. JOHN FRANKLIN REIGART.
MISS A. E. WYCKOFF,	MISS SARAH E. SCOTT, M.A.
Prof. WALTER L. HERVEY, PH.D.	Prof. FREDERICK W. OSBORN.
PERCIVAL CHUBB.	Mrs. ROBERT H. DODD.
PRIN. F. L. LUQUEER.	Mrs. JOHN S. MCKAY.

The Department of Psychology was organized April 29, 1890, with sixty-eight members. The present membership is three hundred and thirty-four, a gain of forty-five members during the past year.

Under the auspices of the Department, the following lectures and conferences were given :

I. A Course of Six Lectures with the co-operation of the Department of Pedagogy, by Prof. MARTIN V. O'SHEA, PH.D., of the University of Wisconsin, on "Child Study," as follows :

Oct. 19.—"Some Applications of Modern Biology, Psychology and Child Study to Teaching."

Oct. 26.—"The Psychology of Suggestion and Its Importance in the Training of Children."

Oct. 29.—"Dullness and Viciousness in the Home and School ; Some Fundamental Causes and Remedies."

*Nov. 2.*—"The Physical Expression of the Intellect and of the Character in Childhood."

*Nov. 5.*—"Children's Expression Through Language and Drawing."

*Nov. 9.*—"The Evolution of the Soul in Childhood and Youth. Some Data from Biology, Psychology and Anthropology, with Practical Applications."

II. A Course of Six Lectures, with the co-operation of the Department of Pedagogy, by Prof. HUGO MÜNSTERBERG, PH.D., of Harvard University, on "The Aims and Methods of Modern Psychology," as follows :

*Nov. 12.*—"The Work of Psychological Laboratories."

*Nov. 19.*—"The Study of Insanity and Hypnotism."

*Nov. 26.*—"Child Study and Its Relation to Education."

*Dec. 3.*—"The Development of the Mind in Animal and Man."

*Dec. 10.*—"The Relations of the Mind and the Brain."

*Dec. 17.*—"The Philosophy of the Soul."

III. A series of conferences under the auspices of the SECTION ON EDUCATIONAL PSYCHOLOGY, Mrs. FRANKLIN W. HOOPER, Chairman, were held on Thursday afternoons, as follows :

*Oct. 13.*—Conference on "The Memory: Its Use and Abuse." Paper by Mrs. FRANKLIN W. HOOPER, Chairman.

*Nov. 10.*—Conference on "Activity as a Law of Childhood." Paper by Mrs. JOHN S. MCKAY, of Brooklyn.

*Dec. 15.*—Conference on "The Moral Development of Children." Paper by Prof. FREDERICK W. OSBORN, M.A., of Adelphi College.

*Jan. 12.*—Conference on "The Fundamental Principles of Froebel's Method." Paper by Miss ELIZABETH REEVE.

*Feb. 9.*—Conference on "The Child's Idea of Money." Paper by Mrs. ROBERT H. DODD.

*Mar. 9*—Conference on "Music and the Child." Papers by Mrs. ANDREW JACOBS, Mrs. FRANKLIN W. HOOPER, and others.

*May 11*.—Conference on "The Child's Ideal as Related to the General Social Ideal." Paper by Prin. FREDERICK L. LUQUEER, Ph.D.

## DEPARTMENT OF ZOÖLOGY.

OLIVER D. CLARK, B.A.,	<i>President.</i>
HENRY C. BURTON,	<i>First Vice-President.</i>
CHARLES A. DAYTON,	<i>Second Vice-President.</i>
MISS ALICE A. DOUGLAS,	<i>Secretary.</i>

### *Executive Committee.*

OLIVER D. CLARK B.A.	Prof. FRANKLIN W. HOOPER.
Prof. JOHN MICKLEBOROUGH, Ph.D.	MISS ALICE A. DOUGLAS.
CHARLES A. DAYTON.	HENRY C. BURTON.
MISS CLARA C. CALKINS.	FRANK H. AMES.

The Department of Zoölogy was organized on February 12, 1889, with twenty-two members. The present membership is one hundred and forty-two, a gain of six during the twelve months. The regular meetings, held on the second Thursday of each month, have been, during the year, as follows :

*Oct 13*.—Lecture by Prof. AUSTIN C. APGAR, M.A., of the Trenton Normal School, on "The Fresh and Salt Water Shells of Long Island," illustrated by collections of shells.

*Nov. 10*.—Lecture by Mr. FRANK M. CHAPMAN, of the American Museum of Natural History, on "Birds' Nests and the Influences Governing their Construction," illustrated by lantern photographs.

*Jan. 12*.—Lecture by Prof. CHARLES L. BRISTOL, of the University of New York, on "Bermuda as a Biological Field for American Students," illustrated by lantern photographs of the Bermuda Islands.



*Feb. 9.*—Lecture by Prof. HERBERT W. CONN, PH.D., of Wesleyan University, on "The Naples Laboratory and other Biological Stations in Europe," illustrated by lantern photographs.

*Mar. 10 (Friday).*—Lecture by Mr. FRANK M. CHAPMAN, of the American Museum of Natural History, on "Bird Life of Cities," illustrated by colored lantern photographs.

Besides the foregoing lectures, given at the regular monthly meetings, the following special lectures were given :

*Apr. 3.*—Lecture by Mrs. OLIVE THORNE MILLER, of Brooklyn, on "The Seven Ages of Bird Life," illustrated by colored lantern photographs.

*Apr. 11.*—Lecture by CHARLES B. DAVENPORT, PH.D., of Harvard University, Director of the Biological Laboratory at Cold Spring Harbor, on "The Study of Variation in Animals," illustrated by lantern photographs.

*Apr. 19.*—Lecture, in conjunction with the Department of Microscopy, by Dr. HENRY E. CRAMPTON, Jr., of Columbia University, on "The Fertility of the Animal Egg," illustrated by lantern photographs of the cellular structures of the egg.

## SECTION ON ORNITHOLOGY.

HENRY C. BURTON,  
CURTIS C. YOUNG,  
ARTHUR H. HOWELL,  
EDWARD A. BEHR,

*Chairman.*  
*Secretary.*  
*Curator.*  
*Librarian.*

### *Committee on Papers.*

Mrs. OLIVE THORNE MILLER.

EDWARD A. BEHR.

THOMAS PROCTOR.

### *Committee on Local Fauna.*

FRANK E. JOHNSON.

O. A. DOERFLINGER.

EDWARD F. CARSON.

This Section was organized March 20, 1894, with a membership of thirty-two. The present membership is fifty-eight. The meetings held under the auspices of the Section during the past year have been as follows :

*Oct. 21.*—Lecture by Mr. FRANK M. CHAPMAN, of the American Museum of Natural History, on "A Naturalist in Florida," illustrated by colored lantern photographs.

*Nov. 18.*—Conference of the Members of the Section. "Reports on Observations made during the Season, May to October."

*Dec. 16.*—Lecture by J. L. WORTMAN, PH.D., of the American Museum of Natural History, on "The Birth of the Rocky Mountains," illustrated by lantern photographs.

*Jan. 20.*—Conference on "The Flight of Birds."

*Feb. 17.*—Lecture by Mr. FRANK M. CHAPMAN, of the American Museum of Natural History, on "A Naturalist in Cuba," illustrated by colored lantern photographs.

*Mar. 17.*—Conference on "The Migration of Birds."

*April 21.*—Lecture by Mr. FRANK M. CHAPMAN, of the American Museum of Natural History, on "A Naturalist in Mexico, from Vera Cruz to Mexico City," illustrated by lantern photographs.

#### SECTION ON CONCHOLOGY.

CHARLES A. DAYTON,  
FRANK H. AMES,

*Chairman.*  
*Secretary.*

This Section was organized in the month of November, 1897. Meetings have been held during the past season, on the second Monday evening of each month, at which papers were read and conferences held on subjects of general interest to the members.

*Feb. 13.*—Conference on "Purpura and Allied Forms."

## THE ZOÖLOGICAL COLLECTIONS.

Donations have been made during the year to the Collections of the Department, as follows :—

From ROBERT J. BELL, M.D :

One iguana, a jar of small aphiadæ.

From Mr. EUGENE G. BLACKFORD :

Specimen of fish (mounted).

From Mr. ALOYSIUS LAMB :

The saw of a sawfish.

From Mrs. ISRAEL MINOR :

Large fan coral, "Gorgonia"

From Mr. F. A. SCHNEIDER :

A skeleton of a box turtle, a mounted skeleton of a swan, skulls of the red squirrel, house mouse and the shrew.

From the KNY-SCHERER Co.:

A jar containing specimens of the different stages of the development of the frog,

Additions have been made to the Collections of the Department by purchase, as follows :—

From WARD'S Natural Science Establishment, Rochester, N. Y.:

Models of the anatomy of a fish, a batrachian, an echinoderm, a lamellibranch, the human thorax, a crustacean and of a halcyonoid polyyp.

Donations have been made to the Collections of the Section on Ornithology, as follows :

From Mr. ROBERT W. PEAVEY :

One mounted specimen of the green heron, the little-eared grebe, marsh-harrier, the great black-backed gull.

From Mr. GEORGE A. WESTBROOK :

A collection of fifty mounted specimens of birds indigenous to Eastern North America ; ten small animals including the ermine, badger, mole, red squirrel, chipmuck, black squirrel, fox, two bats, and a horned frog.

From Mr. J. W. HARMAN :

Mounted specimen of trogan from Guatamala.

Loaned by Mr. WILLIAM A. FERRIS :

A collection of ostrich feathers.

Loaned by Mr. STEPHEN A. KROM :

A mounted group of the great crested fly-catcher.

Donations have been made to the Collections of the Section on Conchology during the year as follows :—

From Mr. JOHN HOWARD WILSON :

Thirty-one shells from San Pedro, and thirteen specimens from Santa Barbara, California.

The Collections of the Ornithological Section consist of the following: the HENRY F. ALLEN COLLECTION, consisting of 470 mounted birds and 400 bird skins, all well made and in excellent condition ; the GEORGE B. BRAINERD COLLECTION, consisting of 285 bird skins with data ; the MILLS COLLECTION, consisting of between 50 and 60 skins of both foreign and native birds ; the GREGORY COLLECTION, presented by Mrs GEORGE F. GREGORY in memory of her son, the late DEXTER GREGORY, comprising about 900 specimens of birds' eggs, correctly labeled and accompanied by very full and accurate notes ; the JOHN C. BEALE COLLECTION, comprising about 100 well-mounted specimens of tropical birds. The collections presented this season: a Loan Collection, accessible to Members for study, of 700 bird skins belonging to Mr. A. H. HOWELL, collected chiefly from Long Island, and fairly representative of the land birds of this vicinity,

and a LOAN COLLECTION of fifty-six mounted birds from Mr JOHN MURGATROYD, of New York.

The Department has been one of the active agencies in the organization and maintenance of the Biological Laboratory at Cold Spring Harbor, whose work is described on succeeding pages. With the erection of the Museum Buildings, this Department, like most of the others, will find its work greatly increased.

### THE SECTION ON PHILATELY.

#### *Officers.*

Dr. THADDEUS P. HYATT,  
DAVID S WELLS  
JOHN D. CARBERRY,  
ALEXANDER HOLLAND,  
GEORGE W. RING,

*President.*  
*Vice-President.*  
*Secretary.*  
*Treasurer.*  
*Curator.*

#### *Executive Board.*

Dr. THADDEUS P. HYATT.  
JOHN D. CARBERRY.  
CHARLES R. BRAINE, Jr.  
HENRY A. TALBOT.  
EUGENE BOUCHER.  
CRAWFORD CAPEN.  
J. M. ANDREINI.

H. E. ROBINSON.  
Prof. FRANKLIN W. HOOPER.  
P. ELBERT NOSTRAND.  
HENRY TOELKE.  
ALFRED BAILLOD.  
GEORGE W. RING.  
DAVID S. WELLS.

ALEXANDER HOLLAND.

This Section was organized September 16, 1898, by the Members of the Long Island Philatelic Society of Brooklyn, and began its work as a Section with seventy seven Members. The present membership is ninety-one, a gain of fourteen during the eight months since its organization.

The business meetings of the Section are held on the second Friday evening of each month, July and August excepted; social and exchange meetings, for the exhibition and exchange of collections of stamps, on the first, third and

fifth Friday evenings, and lectures and discussions on the fourth Friday evening of each month, from October to May, inclusive.

## CONSTITUTION OF THE SECTION.

### ARTICLE I.—NAME.

SECTION 1. Section on Philately of the Brooklyn Institute of Arts and Sciences.

### ARTICLE II.—PURPOSES AND OBJECTS.

SECTION 1. The purposes and objects of this Section shall be as follows :

1. The promotion of the study and the diffusion of knowledge of philately.
2. The encouragement of the collecting of postage and revenue stamps, stamped envelopes, and other objects pertaining to philately.
3. The establishment of a philatelic library.
4. The formation of a collection of stamps for the Institute.
5. The encouragement of closer intercourse between philatelists the world over, for the mutual benefit of all.
6. The consideration of stamps in relation to geography, history, chronology, language and the fine arts.
7. The promulgation of the best principles of preservation, classification and arrangement of stamps.

### ARTICLE III.—MEMBERSHIP.

SECTION 1. The membership of this Section shall comprise :

1. Corresponding and Active Members, in accordance with the Constitution of the Institute.
2. The Corresponding Members of this Section shall comprise those persons whose knowledge of philately, or whose foreign residence, peculiarly qualifies them to contribute valuable or interesting material to this Section.

3. The Active Members of this Section shall comprise those members of the Institute who are especially interested in philately.

#### ARTICLE IV.—GOVERNMENT. EXECUTIVE BOARD.

SECTION 1. An Executive Board, consisting of fifteen members, shall have the direction and management of the interests of this Section.

SEC. 2. The Executive Board shall be divided into three classes: The first class shall hold office for one year; the second for two years; and the third for three years.

#### ARTICLE V.—OFFICERS.

SECTION 1. The Officers of this Section shall be a President, Vice-President, Secretary, Treasurer, Curator and Librarian.

SEC. 2. The President shall not hold office for two consecutive years.

SEC. 3. The Officers of this Section shall be elected by the Members of the Section from among the Members of the Executive Board.

#### ARTICLE VI.—ANNUAL MEETING.

SECTION 1. The Annual Meeting for the election of Officers and Executive Board shall be held on the first Friday in April.

#### ARTICLE VII.—QUORUM.

SECTION 1. A quorum of the Section for the transaction of business shall consist of ten members, and five members of the Executive Board shall constitute a quorum.

#### ARTICLE VIII.—MEETINGS.

SECTION 1. Regular Meetings of the Section for the transaction of business shall be held on the second Friday of each month, July and August excepted.

SEC. 2. Meetings for lectures, addresses and exhibitions shall be held on the fourth Friday of each month, from October to March, inclusive, subject to the Constitution and Rules of the Institute.

SEC. 3. Social Meetings for the study and exchange of stamps shall be held on the first, third and fifth Friday of each month, July and August excepted.

#### ARTICLE IX — AMENDMENTS.

SECTION 1. This Constitution may be altered or amended only by consent of a three-fourths vote of the members present at a regular meeting. Such alterations or amendments must have been proposed in writing by three members, and a copy thereof mailed by the Secretary to each member of the Section at least two weeks before action is taken thereon.

#### BY-LAWS OF THE SECTION.

##### ARTICLE I.—PRESIDENT.

SECTION 1. The President shall preside at all meetings of the Section and Executive Board, enforce all rules and regulations, and perform such other duties as pertain to the office.

SEC. 2. He shall appoint all Committees not otherwise provided for, and give the casting vote when necessary.

SEC. 3. He shall address the Section at its Annual Meeting on topics relating to its interests.

SEC. 4. The retiring President shall also make an Annual Report in the month of May in each year to the Board of Trustees and to the Council of the Institute on the work, needs, membership and attendance of the Section.

##### ARTICLE II.—VICE-PRESIDENT.

SECTION 1. Should the President be absent, the Vice-President shall act in his stead.



## ARTICLE III.—SECRETARY.

SECTION 1. The Secretary shall keep a record of all the meetings of the Section and of the Executive Board, a correct roll of the members, receive and file all Section documents, and perform such other duties as pertain to his office. His records shall at all reasonable times be open to the inspection of any member.

## ARTICLE IV.—TREASURER.

SECTION 1. The Treasurer shall keep all accounts between the Section and the Institute, endorse all bills approved by the Executive Board, and make a true report of his proceedings at the Annual Meeting. His books shall at all times be open to the inspection of any Member of the Section.

SEC. 2. He shall also make a quarterly report to the Section.

SEC. 3. No bills shall be paid by the Institute unless countersigned by the President and Treasurer of the Section.

## ARTICLE V.—CURATOR.

SECTION 1. The Curator shall have full charge of the Stamp Collection, subject to the regulations of the Section and of the Board of Trustees and Council of the Institute.

## ARTICLE VI.—LIBRARIAN.

SECTION 1. The Librarian shall have full charge of the books, papers and slides, subject to the regulations of the Section and of the Board of Trustees and Council of the Institute.

## ARTICLE VII.—EXECUTIVE BOARD.

SECTION 1. The Executive Board shall have full power and control of the property, effects and assets of the Section.

SEC. 2. The Executive Board shall enforce the preservation of order and obedience to the Constitution and By-Laws.

SEC. 3. Should any vacancy occur in the Executive Board it shall be filled by election at the next regular meeting of the Section, the incumbent to serve the unexpired term.

SEC. 4. The Board shall have full power to decide all questions not governed or determined by the Constitution and By-Laws of the Section or of the Institute.

SEC. 5. The Executive Board shall audit the accounts of the Treasurer.

SEC. 6. Meetings of the Executive Board. Regular meetings of the Executive Board shall be held on the second Friday of each month, excepting July and August.

SEC. 7. Special meetings of the Executive Board shall be called by the President upon the written request of three of its members, and notice of such meeting shall be sent by the Secretary to its members at least three days before such meeting.

SEC. 8. At the Annual Meeting, five members shall be elected to the Executive Board, who shall hold office for three years.

#### ARTICLE VIII.—ELECTION OF OFFICERS AND EXECUTIVE BOARD.

SECTION 1. Election shall be by ballot, and the candidate receiving a majority of the votes cast shall be declared elected.

SEC. 2. Proxies. No voting by proxies shall be allowed.

#### ARTICLE IX.—ELECTION OF MEMBERS.

SECTION 1. Members shall be elected by ballot at any regular business meeting.

SEC. 2. A candidate for membership of the Section shall be referred to the Executive Board and upon their recommendation shall be presented to the Section for election at

the next regular business meeting. A majority vote of the members present shall be necessary to elect.

ARTICLE X.—REPORTS.

SECTION 1. The Officers of the Section shall make a report in writing at the Annual Meeting in April.

ARTICLE XI.—TIME OF MEETINGS.

SECTION 1. All meetings shall be called to order promptly at 8:15 P. M.

ARTICLE XII.—AMENDMENTS.

SECTION 1. These By-Laws may be altered or amended at any regular business meeting of the Section, by consent of three-fourths of the members present.

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The following illustrated lectures have been given during the year :

*Oct. 28.*—By Dr. THADDEUS P. HYATT, on "The History and Evolution of Postal Service, and the Origin of Postage Stamps."

*Nov. 25.*—By Mr. CRAWFORD CAPEN, on "The Postage Stamps of the United States."

*Jan. 27.*—By Dr. W. H. MITCHELL, on "United States Locals."

*Feb. 24.*—By Mr. JOHN N. LUFF, on "What Philately Teaches," in the illustration of which over one hundred lantern slides were used.

*April 26.*—By Mr. ALEXANDER HOLLAND, on "The Postage Stamps of Great Britain."

Philatelic Lectures, illustrated by handsomely colored lantern photographs, by means of which each stamp, after being thrown upon the screen, is shown over two feet in height, bringing out clearly every variation in design, perforation.

grill, secret mark, etc., are an entirely new and interesting feature of this pursuit which has come to be recognized as a science.

The first exhibition of postage and revenue stamps under the auspices of the Section was held in the Art Galleries of the Art Association Building, 174 Montague street, from March 18th to April 1st, 1899. A handsome catalogue was prepared, concerning the various classes, entries and awards, and some three thousand copies distributed. One gold medal, nine bronze medals, and nine special prizes were awarded for merit in the different groups and classes. Honorable mention was also made for certain exhibits.

The exhibition was visited by over ten thousand people. On each of the special days (March 25th and April 1st) set apart for the school children of the Borough of Brooklyn, it is estimated that between 2,500 and 3,000 boys and girls were present and received packets of stamps distributed gratuitously.

Though but a short period was occupied in preparing for the exhibition, nearly every postal system in the world was represented. The stamps were mounted in sealed frames and hung on the sides of the Art Galleries, 13,379 specimens being exhibited. The stimulus given to stamp collecting in this vicinity, and the benefits to philately in general, resulting from this successful exhibition, cannot be overestimated.

Contributions to the Library of the Section, not including a number of miscellaneous publications, have been as follows:—

From SCOTT STAMP AND COIN Co., Lt'd :

Ten bound volumes of the "American Journal of Philately."

From J. C. MORGANTHAU & Co.

Seven bound volumes of the "Post Office."

From Mr. I. A. MEKEEL :

Twelve volumes of "Mekeel's Weekly Stamp News."

From Mr. W. RASMUS :

A miscellaneous collection of philatelic catalogues and magazines.

From Mr. LEWIS ROBIE :

One volume of "Stamp Hunting." *a large number since*

The co-operation of all persons interested in Philately is respectfully invited in the work of building up this library.

The Section has accomplished most successful work in the formation of a Collection of the stamps of the world for the Institute, courteously assisted by the beneficence of foreign governments and individuals; sets of stamps, envelopes, post-cards, etc., varying in number and value, have been contributed as follows :

Mr. J. ARTHUR WAINWRIGHT, of the American Philatelic Association.

Postmaster-General of Canada.

Postmaster-General of Newfoundland.

Colonial Postmaster of Bermuda.

Postmaster of Bahamas.

The Honorable Postmaster-General of Tasmania.

The Honorable Postmaster-General of New South Wales.

The Colonial Postmaster of Sierra Leone.

The Honorable Postmaster-General of New Zealand.

Postmaster-General of South Australia.

Postmaster for Jamaica.

The Colonial Postmaster of British Honduras.

Colonial Postmaster of St. Lucia.

Director-General of Posts of Mexico.

Postmaster-General of Egypt.

Postmaster-General of British Guiana.

The Honorable Postmaster-General of Queensland.

Postmaster of Turks Islands.

Postmaster of Falkland Islands.

The Honorable Director-General of Posts and Telegraphs  
of Hungary.

Director-General of Posts for Costa Rica.

The Honorable Director-General of Posts and Telegraphs  
of Roumania.

His Excellency the Governor-General of the State of  
Portuguese India.

Mr. THOMAS T. ECKERT, President of the Western Union  
Telegraph Co.

Colonial Postmaster of Lagos.

Colonial Postmaster of <sup>Danish</sup> ~~Danish~~, W. I.

Director-General of British India.

Director-General of Honduras. *- come to other countries.*

An invitation is cordially extended to philatelists residing  
in all parts of the world to contribute to the Institute Col-  
lection. Gifts of private collections would be highly  
appreciated. It is intended that this collection shall be  
mounted in specially designed cases and placed on perma-  
nent exhibition in the Museum Building on Eastern Parkway.

TABLE SHOWING THE MEMBERSHIP OF THE  
DEPARTMENTS.

Department.	1897-8.	1898-9.	Order of Size.
ARCHÆOLOGY .....	148	146	20
ARCHITECTURE .....	268	290	10
ASTRONOMY .....	262	269	12
BOTANY .....	331	340	7
CHEMISTRY .....	199	207	14
DOMESTIC SCIENCE .....	149	154	19
ELECTRICITY .....	282	274	11
ENGINEERING .....	161	158	17
ENTOMOLOGY .....	53	99	25
FINE ARTS .....	803	853	4
GEOGRAPHY .....	244	302	9
GEOLOGY .....	162	156	18
LAW .....	237	239	13
MATHEMATICS .....	93	105	24
MICROSCOPY .....	141	137	23
MINERALOGY .....	133	139	22
MUSIC .....	1,754	1,933	1
PAINTING .....	183	196	15
PEDAGOGY .....	572	696	5
PHILOLOGY .....	1,210	1,279	2
PHOTOGRAPHY .....	429	495	6
PHYSICS .....	157	161	16
POLITICAL SCIENCE .....	862	865	3
PSYCHOLOGY .....	289	334	8
ZOOLOGY .....	136	142	21
SECTION ON PHILATELY .....	...	92	26
	9 258	10,061	

## THE INSTITUTE LIBRARY.

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The Library of the Institute comprises about 27,000 volumes, and constitutes the oldest public library in Brooklyn. Formed originally in large part of gifts by public-spirited citizens of the old Brooklyn village, it contains much that is valuable in the way of local history, and many volumes valuable for their age and rarity. It is especially rich in first American editions, and possesses unusually full collections of travels and explorations, and of old French and English plays. The character of the collection is, however, general, and the whole field of literature, in its broad sense, is represented with tolerable impartiality.

As soon as suitable library rooms can again be secured, the general library will be placed in use. It is free to any responsible resident of New York City. The libraries of the Departments, some of which possess valuable special collections, are for consultation at the Museum Building.

The Institute received on the first day of June, 1894, through the generosity of a number of its members, the library of the late Rev. FREDERICK A. FARLEY, D.D., for many years a member of the Institute, and the pastor, personal friend and advisor of AUGUSTUS GRAHAM, the Founder of the Institute, from the time of the removal of the Institute from its first building at the corner of Henry and Cranberry streets to Washington street, until the Founder's death. The clause in the will of AUGUSTUS GRAHAM providing for the Sunday evening Lectures on "The Power, Wisdom, and Goodness of God as Manifested in His Works," was written by Dr. FARLEY after Mr. GRAHAM had made known to him, in a general way, his wishes with regard to the endowment of the Institute. It is most appropriate, therefore, that the friends of the late Dr. FARLEY should have purchased the



entire library and the cases containing it, and have presented them to the Institute. The library contains sixteen hundred volumes on History and Literature, all of them choice and valuable works, and many of them rare and of exceptional value. The conditions on which the library is presented and received are that it shall be kept together for use as a library of reference, and be placed in the Museum Building, when erected, in an alcove by itself, and be designated as the FREDERICK A. FARLEY LIBRARY.

From the Brooklyn Philharmonic Society the Institute received in 1896 a most valuable gift, comprising 6,610 volumes of Choral Works, in sets suitable for the production of oratorios and other musical compositions in the Academy of Music. A list of these works is given on page 182 of the Year Book of 1895-6.

From Members of the Institute about nine hundred volumes have been received during the year for the use of the several Departments. The Library now contains twenty-seven thousand volumes and twenty-eight hundred pamphlets, and is arranged on shelving at the Bedford Park Building and at the Museum Building.

It is but natural that the development of the library of the Institute should be in connection with the general educational work which the Institute is doing through its various Departments. Several large and valuable libraries have grown up in the city since the foundation of the Institute Library, each serving its own special functions. A library administered in close relation with the liberally extended educational work of the Institute has a very special and unique opportunity for usefulness, such as is not possessed by the usual forms of public libraries. More and more it is being recognized that public libraries are great engines, powerful for injury or infinite benefit, according to the books they contain and the use that is made of them. To interest the public in great and important subjects is the high function of the Institute ; to supply, while the appetite

is keen, the food which will develop interest into knowledge and productiveness is the great work of the Institute Library.

Members and citizens generally are cordially invited to donate to the libraries either books or pamphlets that will be of value for reference or for circulation.

Additions to the Library for the past year, not mentioned under the several departments, have been as follows:—

From CHARLES H. COOK, M.D.:

Twenty-four volumes of the Proceedings of the American Association for the Advancement of Science.

From Mr. HENRY C. KNIGHT:

Sixteen volumes of "Ridpath's Library of Universal History."

From Gen. HORATIO C. KING:

"The Phantom Column."

From Mr RALPH H. WAGGONER:

Ten Chinese books.

From Mrs. SADIE L. BERGEN:

"The Bergen Genealogy."

From SCRIBNERS' SONS:

"Robert Louis Stevenson, Letters, Criticism, Sketches, etc."

From The Rev. SYLVESTER MALONE:

"The Henry McCaddin Memorial."

From Dr. LANGDON C. STEWARDSON:

"Origins and Destiny."

From THE WAR DEPARTMENT.

"Military Notes on the Philippines."

From Mr. J. EDMUND WOODMAN:

"The Geology, Marine Zoology and Botany of the Vicinity of Boston."

From N. M. SPEDON :

“Talent.” (One bound volume.)

From ADELBERT M. DEWEY :

“Life of Rear Admiral Dewey and the Dewey Family History.”

From THE NAVAL OFFICE :

“Official Records of the Union and Confederate Navies in the War of the Rebellion.”

From THE UNIVERSITY of IOWA :

“The Far North.”

From Miss ALICE C. FLETCHER :

“A Pawnee Ritual Used When Changing a Man’s Name,”  
“The Harmonic Structure of Indian Music.”

From Mr. JAMES LITTLEJOHN :

One bound volume of “Punch” and one bound volume of  
“London Illustrated News.”

From the Hon. JOSEPH H. WALKER, M.C.:

“Reform of Treasury, Banking and Currency.”

Reports from the following Institutions :

The Rochester Athenæum and Mechanics’ Institute.

Oberlin College, Ohio.

The John Crerar Library.

University of Pennsylvania.

Indiana Academy of Science.

The Lowell Observatory.

The Lowell Historical Association.

Pratt Institute.

The Southampton Art Museum.

Columbia University.

N. Y. State Museum.

The Chicago Academy of Science.

The National Museum.

Field Columbian Museum.

Massachusetts Institute of Technology.  
 The Smithsonian Institution—2 Vols.  
 N. Y. Public Library.  
 Princeton University.  
 Museum of Natural History, Springfield.  
 The New England Society of Brooklyn.  
 Lehigh University.  
 Kansas University.  
 Tennessee University.  
 Harvard University.  
 Ohio State University.

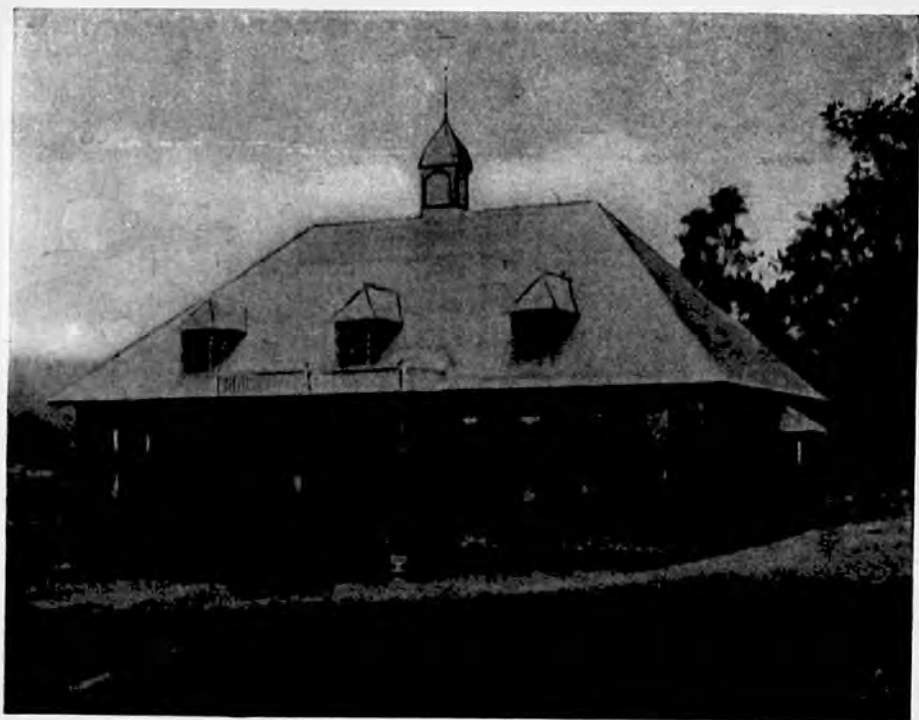
From the Department of Agriculture, Annual Reports,  
 3 vol., 106 pamphlets, issued under the departments of  
 Entomology, Botany, Agrostology, Animal Industry, Experi-  
 ment Stations, Statistics.

From the Commissioner of Labor, Annual Report, 2 vols.

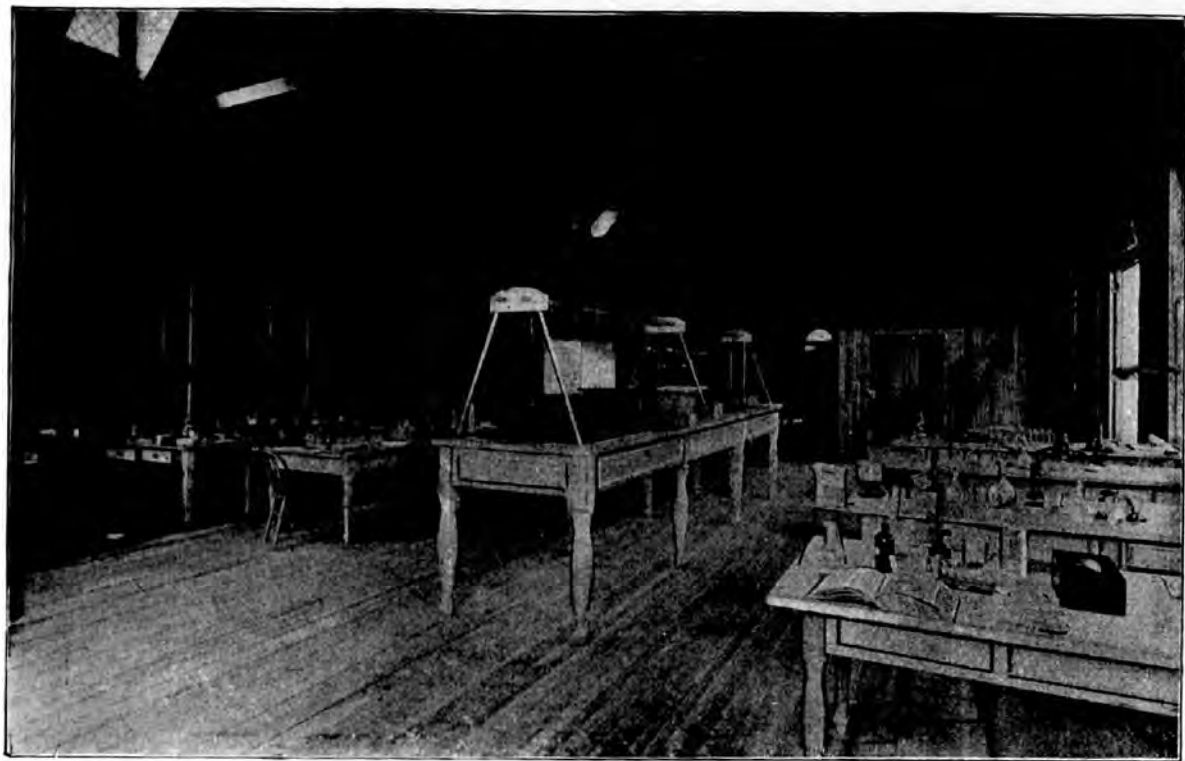
From the United States Patent Office, Annual Report,  
 twenty-two Official Gazettes and alphabetical index.

Reports from the Interstate Commerce Commission, of  
 the Librarian of Congress, of the N. Y. Railroad Commis-  
 sioners, of the Department of Labor, of the Department  
 of Charities and Corrections, of the Commissioner on Edu-  
 cation.

*J. D. C. Carby*  
*Secy 11 25 Putnam Ave*  
*Brooklyn, N.Y.*



THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR, 72 X 36 FT.



AN INTERIOR VIEW OF THE BIOLOGICAL LABORATORY.

# THE BIOLOGICAL LABORATORY.

[Located at Cold Spring Harbor, L. I.]

## BOARD OF MANAGERS.

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 LOWELL M. PALMER.

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 PROF. J. MICKLEBOROUGH, PH.D.  
 REV. GEORGE D. HULST, PH.D.  
 OLIVER D. CLARK, B.A.

### *Executive Committee.*

EUGENE G. BLACKFORD.  
 CHARLES L. WOODBRIDGE,  
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 PROF. FRANKLIN W. HOOPER.  
 PROF. J. MICKLEBOROUGH, PH.D.

## THE BOARD OF INSTRUCTION.

CHARLES BENEDICT DAVENPORT, PH.D., Instructor in Zoölogy, Harvard University, Cambridge, Mass., *Director.*  
 DUNCAN STARR JOHNSON, PH.D., Instructor in Botany, Johns Hopkins University, *Instructor in Botany.*  
 HENRY SHERRING PRATT, PH.D., Associate Professor of Zoölogy, Haverford College, *Instructor in Zoölogy.*  
 CHARLES PETER SIGERFOOS, PH.D., Professor of Zoölogy, University of Minnesota, *Instructor in Embryology.*  
 WILLIAM HARRY C. PYNCHON, A.M., Instructor in Biology, Haverford College, *Instructor in Photography.*  
 NELSON FITHIAN DAVIS, Sc.M., Assistant Professor, Bucknell University, *Instructor in Bacteriology.*

- Mrs. GERTURDE CROTTY DAVENPORT, formerly Instructor in Zoölogy, Kansas University, *Instructor in Microscopic Methods*.  
 STEPHEN RIGGS WILLIAMS, A.M., Assistant in Zoölogy, Harvard University, *Assistant in Zoology*.  
 WILLIAM CHAMBERS COKER, B.S., Johns Hopkins University, *Assistant in Botany*.

### STUDENTS ENGAGED IN RESEARCH, 1899.

- ELIZABETH BANGS BRYANT, Assistant at Boston Society of Natural History, *Botany*.  
 ESTHER FUSSELL BYRNES, PH.D. (Bryn Mawr), Teacher of Zoölogy and Physiology, Girls' High School, Brooklyn, *Variation*.  
 GEORG DUNCKER, DR. PHIL. (Kiel), Hamburg, Uhlenhorst, *Variation*.  
 LOUISE BRISBIE DUNN, A.M. (Columbia), Tutor in Botany, Barnard College, *Botany*.  
 CHARLES LINCOLN EDWARDS, PH.D. (Leipzig), Professor of Biology, University of Cincinnati, *Variation*.  
 HARRY McCORMICK KELLY, A.M. (Harvard), Assistant Professor of Biology, Cornell College, Mount Vernon, Iowa, *Variation*.  
 ELIZABETH VENABLE GAINES, A.B. (Adelphi College), Professor of Biology, Adelphi College, Brooklyn, *Variation*.  
 WILLIAM J. MOENKHAUS, A.M. (Indiana University), Graduate Student, Harvard University, *Zoology*.  
 MABEL ELIZABETH SMALLWOOD, Teacher of Biology, Englewood High School, Chicago, Ill., *Variation*.  
 GERTRUDE STEIN, A.B. (Radcliffe College), Student, Johns Hopkins University, *Zoology*.  
 JOHN CUTLER TORREY, A.B. (University of Vermont), Graduate Student, Columbia University, *Zoology*.  
 WILLIAM LAWRENCE TOWER, Student, Harvard University, *Zoology*.  
 WILLIAM SEWARD WALLACE, Student, Columbia University, *Zoology*.  
 ADA WATTERSON, A.B. (Columbia University), Assistant in Botany, Barnard College, *Botany*.

### ZOOLOGY I. HIGH SCHOOL ZOOLOGY.

- Mrs. GERTRUDE LANGLEY BLOOD, PH.B. (Cornell), Teacher, 84 St. James Place, Brooklyn, N. Y.  
 SUSAN MARIA CUTTER, Teacher, Montclair, N. J.  
 GERTRUDE HASTINGS, Student at Allegheny College, Meadville, Pa.  
 HERBERT NORTON LOOMIS, Teacher at State Normal School, New Haven, Conn.



- HELEN LOUISE SEELY, Teacher, Jersey City High School.  
 WILLIAM HOWARD SPRENKLE, B.S. (Gettysburg College), Teacher,  
 Central Normal School, Lock Haven, Pa.  
 ELIZABETH HUGHES RIGGS, Teacher, 441 Selby avenue, St. Paul,  
 Minn.

### ZOOLOGY 2. COMPARATIVE ANATOMY.

- EDWARD FULLER BIGELOW, A.M., Taylor University, Editor Popular  
 Science, Stamford, Conn.  
 EMMA MAY CAPPEL, Teacher, 511 Willoughby avenue, Brooklyn, N.Y.  
 DANIEL S. HARTLINE, A.B. (Lafayette College), Teacher, State Nor-  
 mal School, Bloomsburg, Pa.  
 DANIEL EDGAR HOTTENSTEIN, Student at Bucknell University, Lew-  
 isburg, Pa.  
 MARY KINGSLEY, Student, Tufts College, Mass.  
 JAMES COLVIN LANDIS, A.B. (Ursinus College), Student at Med.  
 Chirurg. College, Pennsburg, Pa.  
 LEO LESINSKY, Student, 1109 Madison avenue, New York City.  
 WAYNE L. SHEARER, Student, State College, Pa.  
 GEORGE DIEHL STAHLEY, M.D. (University of Pennsylvania), Professor  
 of Biology and Hygiene, Pennsylvania College, Gettysburg, Pa.  
 ERNEST A. STERLING, Student, Bucknell University, Lunsburg, Pa.  
 LUCIA KIEVE TOWER, PH.B., University of Michigan, 69 Oxford street,  
 Cambridge, Mass.  
 FRANK EVERETT WING, Student, Wesleyan University, Middletown,  
 Conn.

### ZOOLOGY 3. INVERTEBRATE EMBRYOLOGY.

- EMMA MAY CAPPEL, Teacher, Taylor University, Editor Popular  
 Science, Stamford, Conn.  
 MINNIE ADELAIDE COLBURN, Teacher, Springfield, Mass.  
 DANIEL EDGAR HOTTENSTEIN, Student, Bucknell University, Lewis-  
 burg, Pa.  
 MARY KATHERINE PINKHAM, B.A. (Wellesley College), 64 Nahant  
 street, Lynn, Mass.  
 HENRY FARNHAM PERKINS, A.B. (University of Vermont), Graduate  
 Student, Johns Hopkins University, Baltimore, Md.  
 FRANK EVERETT WING

### BOTANY I. CRYPTOGAMIC BOTANY.

- Mrs. GERTRUDE L. BLOOD.  
 EMMA ABBOTT CUTLER, Teacher, Indian School, Carlisle, Pa.  
 ESTHER ANNA HARRISON, A.B. (Woman's College), Student. Address,  
 Govanstown, Md.

- WILLIAM FAY ROSS, Student, Pennsylvania State College. Address,  
Williamsburg, Pa.  
HELEN LOUISE SEELY.  
WAYNE L. SHEARER.  
WILLIAM H. SPRENKLE.  
H. M. STEPHENS, A.M. (Dickinson College). Teacher, Carlisle, Pa.  
ERNEST A. STERLING.  
GILBERT HAVEN TRAFTON, PH.B. (Wesleyan University), Teacher,  
Beaver College, Pa.  
EDGAR NELSON TRANSEAU, A.B. (Franklin and Marshall College),  
Teacher, High School, Williamsport, Pa.

### BOTANY 2. PHÆNOGAMIC BOTANY.

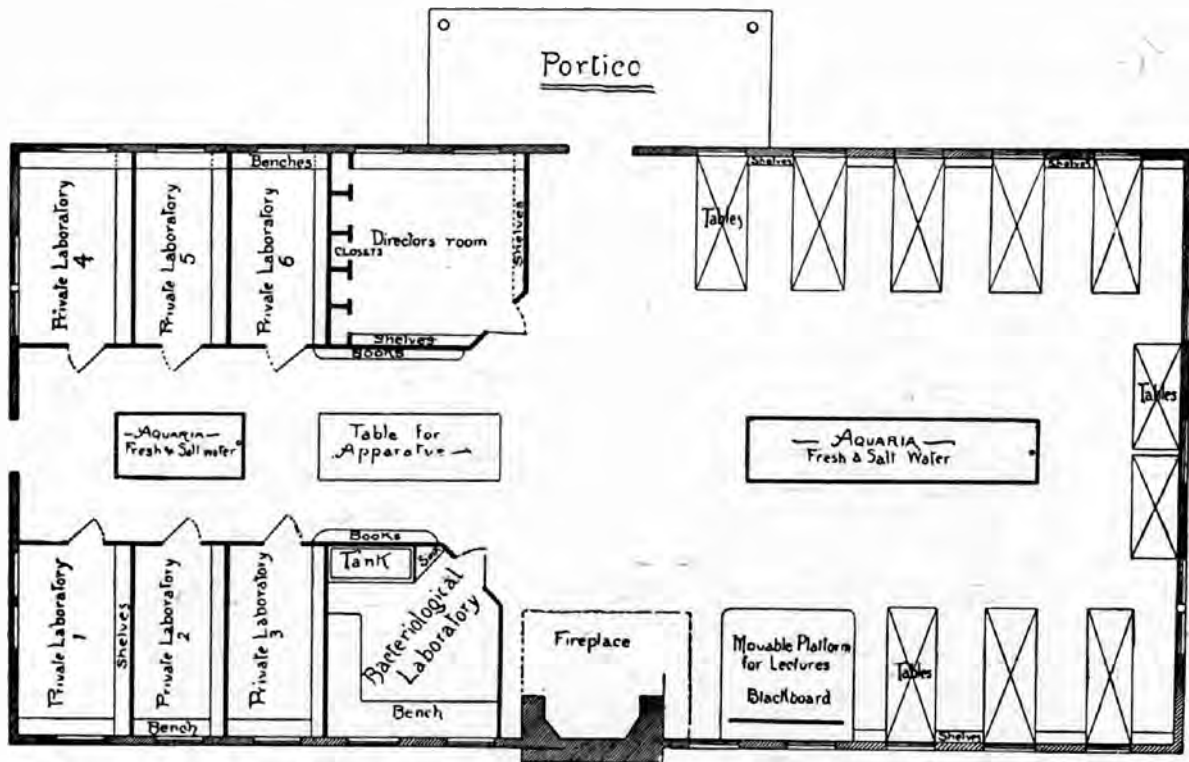
- ALFRED ABEL DOOLITTLE, A.M. (Princeton University), Teacher.  
Address, Princeton, N. J.  
GRACE OWEN, Student at Teachers' College, Address, The Yews,  
Greenwich, London, S. E.  
MARY KATHERINE PINKHAM.  
DANIEL H. SHOEMAKER, B.S. (Earlham College), Graduate Student,  
Johns Hopkins University, Baltimore, Md.

### BOTANY 3. BACTERIOLOGY.

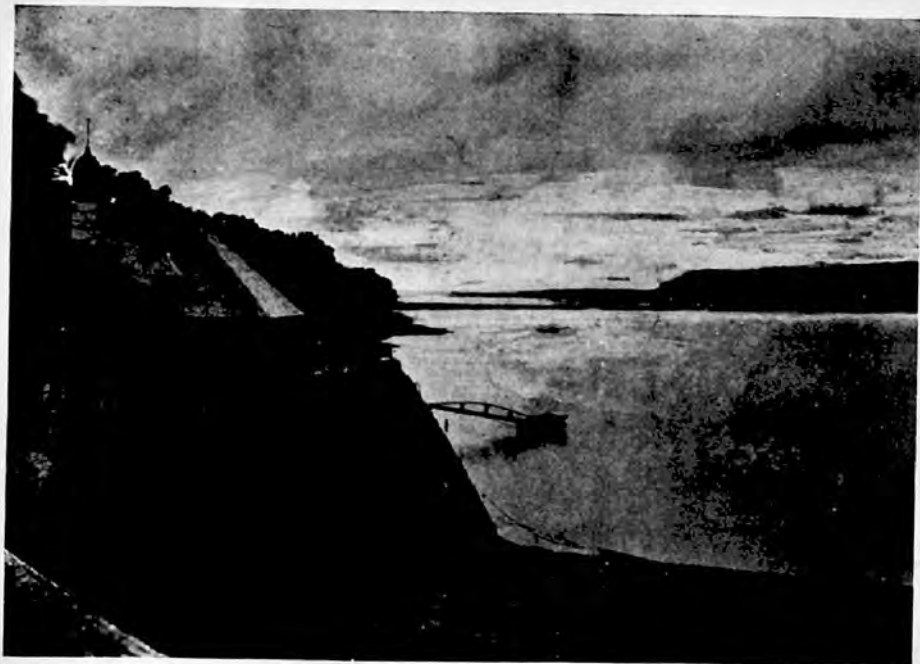
- FRANCIS JOSEPH BIRTWELL.  
FRED GOLDFRANK, A.B. (Harvard). Student, 20 East Eighty-first  
street, New York City.  
GERTRUDE HASTINGS.  
WILLIAM BRICKHERD LINDSAY, B.S. (Mass. Inst. Tech.), Professor of  
Chemistry, Carlisle, Pa.  
EDITH ADELAIDE MILLER, 212 Hooper street, Brooklyn, N. Y.  
EVELINE JUDITH STANTON, PH.M. (Bucknell), Teacher, Lewisburg,  
Pa.

### MICROSCOPIC METHODS.

- EDWARD FULLER BIGELOW.  
DANIEL S. HARTLINE, A.B. (Lafayette College), Teacher, State Nor-  
mal School, Bloomsburg, Penn.  
ELIZABETH HUGHES RIGGS, Teacher, 441 Selby avenue, St. Paul,  
Minn.  
GEORGE DIEHL STAHLEY.  
GILBERT HAVEN TROFTON.  
WILLIAM SEWARD WALLACE.



GROUND PLAN OF THE JOHN D. JONES LABORATORY BUILDING.



VIEW OF COLD SPRING HARBOR AND THE EAST END OF THE LABORATORY.

## LOCATION OF THE LABORATORY.

The location of the Biological Laboratory, at the head of Cold Spring Harbor, is one of the most favorable on the coast. The country around is high and rolling, with abundant forests, glens and small streams, affording most excellent collecting ground for every form of animal and vegetable life common to our climate. Just above the Laboratory is a series of three beautiful fresh water ponds, each fertile in forms of fresh water life, and through which flows the water of Cold Spring Creek. Just below the Laboratory is the long and beautiful harbor of Cold Spring, divided by a sandy neck into an inner and an outer basin. The inner basin is particularly rich in marine life, and the channel between the inner and outer basins has a most varied and vigorous growth of algæ, molluscs, and echinoderms. The outer basin has rocky projections, shallow flats, banks and eel grass, sheltered pools, oyster beds, and other most favorable conditions for collection and study. The outer basin opens widely into Long Island Sound, whose shore is very varied in character for twenty miles in either direction.

## LABORATORY AND APPLIANCES.

The facilities for Biological Work at the Summer Biological Laboratory of the Institute were materially increased in 1894 by the erection of a new and commodious laboratory building (36x72 feet), designed for the special purposes of the school. The laboratory building stands upon a wharf close by the water, and is provided with all the necessary conveniences for summer work. It contains (1) a general laboratory (36x40 feet), in which are located tables for students' work, aquaria supplied with running fresh and salt water, and conveniences for lectures and class instruction; (2) six private laboratories, which are assigned to persons who were competent to carry on independent work, and who were, as a rule, engaged in special investigation;

(3) a room equipped for and devoted to work in bacteriological technique, such as making cultures, isolating species of bacteria, etc.; (4) a room equipped with apparatus for photographing purposes, including ordinary photography, microscopic photography, and the making of lantern slides, and (5) a working library placed at the disposal of the members of the School. In addition, the students are furnished with all the necessary apparatus, reagents, etc., for biological work at the seashore. The Laboratory owns a launch provided with apparatus for the collection of material for laboratory work, and small rowboats are at the disposal of the School. Nearby the main laboratory is a second building, equipped and used for lecture purposes in cases where larger numbers attend the lectures than the general laboratory room will accommodate, or in cases when it is desirable to use the lantern for illustrative purposes. Through the generous hospitality of the New York State Fish Commission portions of the Fish Commission Building are also placed at the disposal of the School.

#### THE PURPOSES OF THE LABORATORY.

The objects of the Laboratory are (1) to furnish a place for general biological instruction, and (2) to offer opportunity for investigation to advanced students. The first object to which the energies of the School are devoted is to develop a first-class school of biological instruction for students who feel the need of practical study at the seashore and of assistance in their work. For this reason the school at Cold Spring Harbor is especially adapted, first, to college students who have not had extended laboratory work in Biology, or who, having had biological work, desire to supplement this work with the practical study of marine forms in their native condition, and desire to do this under the guidance of instructors; second, to teachers or other students who are desirous of obtaining a practical familiarity with

Botany or Zoölogy, to assist them in the work of instruction, or in gaining a practical knowledge of general biology; third, to medical students whose medical course is so crowded as to make it impossible to include in it any thorough study of biological principles and truths outside of those having direct application to medicine. To such students a general course in Biology proves very valuable, and the work in Bacteriology is of especial advantage; and finally, the School offers facilities for investigation by furnishing private rooms and collecting apparatus to any who are desirous of carrying on research.

## COURSES OF INSTRUCTION.

### I. ZOOLOGY.

1. *High-School Zoölogy.*—This course consists of the study, without the use of the microscope, of the external anatomy and the activities of at least ten types of animals selected from the following list: grasshopper, butterfly, fly, beetle, ant, Lithobius, spider, lobster, shrimp, Daphnia, Nereis, earthworm, clam, slug, Ilyanassa, starfish, sand-dollar, Hydra, fish, newt, and sparrow. Particular attention will be paid to observations on the living animal, especially its locomotion and reactions to stimuli. Those students who have already a knowledge of the external anatomy of these animals may substitute for the anatomical study the study of the activities of additional species. The laboratory work upon each type will be followed by some account of its habitat, distribution, and food; its economic importance, and its allies. Directions for finding the animals out-of-doors and for rearing them for laboratory work will be given, and collecting excursions will be made. It is the aim of the course to show the importance and the feasibility of introducing some work on the living animal into secondary school instruction. This course will occupy about three

hours daily for five days in the week, with Saturday excursions in addition. DR. DAVENPORT.

2. *Comparative Anatomy*.—This course consists of thirty lectures upon types of animals, the class work being accompanied by daily work in the laboratory on the forms studied in class. The laboratory work includes instruction in dissection and in methods of collecting and preparing specimens for class use. The laboratory work is entirely individual, each student being given the instruction that is best fitted for his own individual circumstances and purposes. The extensive collecting grounds about Cold Spring Harbor make it possible to have all types of animal life studied by the student from living specimens. The course is intended for teachers who desire such a training in Zoölogy as to enable them properly to conduct zoölogical courses in schools, for elementary students who wish an introduction into the study of biology, and for all students who, having had some previous class work in Zoölogy, desire to acquaint themselves with living animals by practical work on living forms. No preliminary training is necessarily required for the work. Prof. PRATT.

3. *Invertebrate Embryology*.—This course consists of the study in the laboratory of the development of certain types, including some of the following: Starfish and sea-urchin, fresh-water clam, snail, squid, annelids, lobster or crab, insect, tunicate, etc. Budding, regeneration, and the experimental control of development will also be studied. In the lectures especial emphasis will be laid upon development as a physiological process. This course is open only to those who have studied the comparative anatomy of invertebrates, and application to enter it should be made some time in advance. Prof. SIGERFOOS.

4. *Variation*.—In the laboratory, investigations will be made on the normal variation of the animals of the harbor, lakes, and woods, and the production of abnormalities;



discussions will be held on topics in normal variation and natural and artificial abnormalities. This course is open only to students who have had some training in Zoölogy. DR. DAVENPORT.

## II. BOTANY.

1. *Cryptogamic Botany*.—This course of daily lectures, with laboratory or field work, covers as many types of the flowerless plants as thoroughness allows, and treats briefly of the evolution of the reproductive structures of flowering plants. It is designed for teachers or students who desire an introduction to the study of the morphology of cryptogams. The especial richness of the Cold Spring flora in myxomycetes, fungi, fresh-water and brackish-water algæ, together with a good representation of the red and brown marine algæ, makes it an exceptionally good place to gain an acquaintance with these groups. DR. JOHNSON.

2. *Phanogamic Botany*.—Laboratory work will be given in the morphology, physiology, and analysis of flowering plants to such as desire instruction in elementary botany as a preparation for teaching. DR. JOHNSON and Dr. COKER.

3. *Bacteriology*.—This course includes a series of fifteen to twenty lectures upon the principles of bacteriology, and is accompanied by laboratory work upon bacteriological methods, such as culture making, isolation of species, straining bacteria, especially tuberculosis and diphtheria, bacilli, the study of water bacteria, etc. This course is designed for medical students who wish a certain amount of practical knowledge of bacteria, and for all others who desire a knowledge of this important subject. MR. DAVIS.

## III. MICROSCOPIC METHODS.

This course consists of a series of practical exercises, accompanied by lectures, upon the more ordinary microscopic methods, such as the use of the microscope, the function of

the different optical parts, focal distance, aperture, illumination, determination of resolving and magnifying powers; use of the camera; fixing, including the principal stupefying, killing, hardening, and preserving reagents, especially the technique of killing contractile organisms so as to preserve the normal form; staining and impregnation; mounting-media, cells, sealing of mounts, mounting of difficult objects like diatoms and protozoa; methods of studying living objects under the microscope, stage aquaria; section-cutting by paraffin and celloidin methods; use of microtome and the care of razor; the microscopic organisms of ponds and the sea; the principal tissues. Mrs. DAVENPORT.

#### IV. ORIGINAL RESEARCH.

The Laboratory has several private rooms equipped with glassware, reagents, etc., designed for persons engaged in original research. At the disposal of such persons are placed the facilities of the Laboratory, including the use of the launch, boats, collecting apparatus, and books. Students engaged in research are urged to bring microscopes for their own use. Drs. DAVENPORT and JOHNSON.

#### V. BIOLOGICAL CLUB.

A club will be formed, meeting semi-weekly, and open without charge to all members of the Laboratory, for the purpose of giving abstracts of recent biological literature and discussing results. By this means it is hoped that all may be brought into touch with investigation, may get an insight into what biologists are working at to-day, and may gain some practice in the presentation of papers and in the free discussion of them. The club will be addressed also by visiting naturalists. Last year addresses were given by Professor C. I. BRISTOL, of New York University; Professors BASHFORD DEAN and R. E. DODGE, of Columbia University; Mr. JAMES E. PEABODY, of New York City High Schools, and others.



THE DINING HALL BUILDING AT THE BIOLOGICAL LABORATORY.



THE FISH COMMISSION BUILDING, WITH OUTDOOR AQUARIA IN FOREGROUND.

Located near the Biological Laboratory, and used in part by the Students.

## VI. EVENING LECTURES.

A course of popular evening lectures will be given, open to the Members of the Laboratory and the friends of the school. These lectures will be given by the Members of the Board of Instruction and by a number of visitors from various educational institutions. These lectures are intended to be of general interest and will be fully illustrated. Among the lecturers are Prof. HERBERT W. CONN, PH.D., and the members of the Board of Instruction of the Laboratory.

## EQUIPMENT.

The Laboratory has now possession of several buildings.

1. A large laboratory, accommodating about sixty students and fitted with aquaria, running fresh and salt water, private rooms, library, etc.
2. A lecture hall, used both for class lectures and for public lectures. It is furnished with an oxyhydrogen lantern. In the basement of this building is a dark room, for photographing purposes, equipped with cameras and arrangements for ordinary photography, microscopic photography, lantern slide making, etc.
3. A dining hall used by boarding the instructors and students.
4. Three dormitories for students; two of them are assigned to gentlemen, and the other to ladies. The rooms in these dormitories are newly furnished, and are rented to students for a small sum. In addition, the Laboratory is furnished with a naphtha launch, small boats, collecting apparatus, bacteriological apparatus, books, and all small apparatus needed for carrying on laboratory work. A limited number of microscopes are furnished the students, although each person is urged to bring a dissecting and a compound microscope if possible. The Laboratory has also the advantages of the aquaria and appliances of the neighboring hatchery of the New York Fish Commission. Teachers desirous of collecting class material are expected to supply their own alcohol, since the Laboratory is unable to furnish alcohol except at duty-paid prices.

The American Association for the Advancement of Science contributed to the Laboratory \$100, to be expended in paying for the use of private Laboratories for the summer of 1895. The two Laboratories assigned to the American Association were occupied respectively by Mr. GILMAN DREW, of Johns Hopkins University, Baltimore, and Mr. M. A. CARLTON, of the U. S. Department of Agriculture, Washington.

Messrs. DREW and CARLTON were appointed by the American Association to carry on original research at the Laboratory during the summer. Mr. CARLTON'S work was upon "Marine Algæ and the Uredineæ," and Mr. DREW'S upon the "Fresh Water Bryozoa." The results of the researches of Messrs. DREW and CARLTON have been reported to the American Association.

#### TUITION, BOARDING AND ROOMS.

The Laboratory fee for six or more weeks, including any one course of instruction, the general lectures and the use of Laboratory privileges, is \$20.00, and for each additional course \$5.00. The private Laboratory fee is \$25.00 per month, or \$50.00 for the season.

A new Dining Hall was constructed in the spring of 1895 for the accommodation of the instructors and students in a building nearby the Laboratory. Excellent table board is furnished to all connected with the School at \$4.50 per week.

A new Ladies' Dormitory was constructed in the spring of 1895 for the accommodation of thirty students, and a dormitory for gentlemen was added to the number of buildings used by the Laboratory students. Both dormitories are convenient to the Laboratory, Lecture Hall and Dining Hall. Furnished rooms in the dormitories or in the neighborhood of the Laboratory may be obtained at rates varying from \$1.50 to \$3.00 a week, according to location, size, etc.; where two occupy the same room the expense of board and room is from \$6.00 to \$6.50 per week.

A temporary dormitory building was erected in the spring of 1899 to accommodate the increased number of students applying for admission. This will be replaced by a larger and permanent structure.

#### CONTRIBUTIONS FOR ORIGINAL RESEARCH AND APPARATUS.

Subscriptions for the support of the Laboratory during the season of 1899 were made as follows: Mr. EUGENE G. BLACKFORD, \$100.00; Mr. A. AUGUSTUS HEALY, \$25.00; Mr. ROBERT B. WOODWARD, \$25.00; Mr. LOWELL M. PALMER, \$25.00; Mr. FRANK S. JONES, \$25.00; Dr. OLIVER L. JONES, \$25.00; Hon. ADDISON BROWN, \$5.00.

#### THE WAWEPEX SOCIETY.

The buildings and grounds occupied by the Laboratory are the property of the WAWEPEX SOCIETY of Cold Spring Harbor, a Society founded by the late JOHN D. JONES, of New York; and whose purpose it is to promote the increase and diffusion of knowledge in the Natural History Sciences. Through the great liberality of the Founder of the Society, the generous action of the Society itself, and the active co-operation and support of its members, the Laboratory buildings and grounds afford most advantageous conditions for biological study and research.

#### INSTITUTE EXTENSION LECTURES.

The Institute conducted twenty-five courses of lectures and conferences during the past season on the so-called "University Extension" plan. Arrangements for courses in History, Political Science, Philosophy, and Psychology; in Architecture, Sculpture, Painting, Music, and Literature; and in Astronomy, Geology, Archæology, Geography, Physics, Chemistry, Botany, and other kindred subjects were made by the Institute.

The Institute Extension Lectures are accompanied by conferences either preceding or following each lecture, by very full directions for reading and study, and by examinations and certificates, at the option of those who take the lectures.

The courses conducted during the year, and for which a special fee was charged, were as follows :

1. Five lessons by Prof. WILLIAM C. WEBSTER, M.A., PH.D., of Columbia University, on "The Rise and Fall of Spain."
2. Twenty-four lessons by Prof. WILLIAM C. WEBSTER, M.A., PH.D., of Columbia University, on "Colonial History."
3. Twelve lessons by Prof. WILLIAM C. WEBSTER, M.A., PH.D., of Columbia University, on "The History of American Politics."
4. Twenty-four lessons by MILO R. MALTBIE, MA., PH.D., of Columbia University, on "Civil Government."
5. Three lessons by MILO R. MALTBIE, M.A., PH.D., of Columbia University, on "Municipal Government."
6. Five lessons by JOHN A. FAIRLIE, M.A., PH.D., on "Sociology."
7. Fifteen lessons by JOHN A. FAIRLIE, M.A., PH.D., on "European Politics."
8. Eleven lessons by R. M. BRECKINRIDGE, of Columbia University, on "Sociology."
9. Eight lessons by JOHN FRANKLIN CROWELL, PH.D., of New York, on "Political Economy."
10. Ten lessons by Prof. Menco STERN, of New York, on Wolfram von Eschenbach's "Parsifal."
11. Ten lessons by Prof. Menco STERN, of New York, on Gottfried von Strassburg's "Tristan und Isolde."
12. Ten lessons by Mr. CARL FIQUÉ, Member of the Advisory Board of the Department of Music, on "The Study of Musical Form."
13. Eight Lessons by M. W. L. TOMLINS, of Chicago, on "The Teaching of Music."



14. Eight lessons by Mrs. ABBY OSBORNE RUSSELL, of Brooklyn, on "King Lear" and "Cymbeline."

15. Eight lessons by Mrs. ABBY OSBORNE RUSSELL, of Brooklyn, on "Romeo and Juliet" and "Antony and Cleopatra."

16. Two courses of ten lessons each in "Sight Singing" for beginners, by Mr. TALLIE MORGAN, of Manhattan.

17. Two courses of ten lessons each in "Sight Singing" for advanced pupils, by Mr. TALLIE MORGAN, of Manhattan.

18. Ten lessons in "Sight Singing" for beginners, by Mr. CLARENCE T. STEELE, of Manhattan, given in the Eastern District of the Borough.

19. Ten lessons in "Sight Singing" for advanced pupils, by Mr. CLARENCE T. STEELE, of Manhattan, given in the Eastern District of the Borough.

20. Ten courses of ten lessons each, for ladies, by Mr. CLARENCE T. STEELE, of Manhattan, in "Sight Singing."

21. Two courses of ten lessons each in "Sight Singing" for beginners, by Mr. WILBUR A. LUYSTER, of Brooklyn, given in the Bedford District of the Borough.

22. Two courses of ten lessons each in "Sight Singing," for advanced pupils, by Mr. WILBUR A. LUYSTER, of Brooklyn, given in the Bedford District of the Borough.

23. Twelve lessons, by SMITH ELY JELLIFFE, M.D., of Manhattan, on "The Microscopic Structure of Plants."

24. Fifteen illustrated lectures and ten field meetings, by Prof. A. P. LOHNESS, M.D., and WALTER BRYAN, M.D., of Brooklyn, on "The Botany of Flowering Plants."

25. Five lessons by Prin. LYMAN A. BEST, of Public School No. 13, on "Entomology."

The cost of the courses varied according to the number of lectures or exercises. For members of the Institute the expenses amounted to about twenty-five cents per lecture; for persons not members of the Institute the charge was generally fifty per cent. higher.

## THE MUSEUM MOVEMENT.

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In December, 1888, a committee of members of the Institute was appointed by the Council to organize a movement which it was hoped might lead to the formation of Museums of Art and Science in Brooklyn. This action of the Council was indorsed by the Board of Directors in January, 1889. The Committee determined, after some deliberation, to call a public meeting of citizens, and to that end drew up a letter of invitation to a meeting to be held on February 5, 1889. This letter was sent to fifteen hundred citizens, who were known to be specially interested in Art or Science.

At the Citizens' Meeting, held on February 5th, pursuant to the above call, Gen. JOHN B. WOODWARD, President of the Board of Trustees, presided, stated the purpose of the meeting, and spoke of the desire felt by the Trustees of the Institute that the property of the Institute should be made more valuable to Brooklyn, and a nucleus of a much larger property to be used in the erection of Museums of Art and of Science for the education and enjoyment of the people. In closing his address, as President of the Institute, Gen. WOODWARD invited the co-operation of the citizens present in the movement in which the Institute had taken the initiative.

The Rev. Dr. A. J. F. BEHREND'S spoke of the rapid growth of Brooklyn, the fact that the city was no longer looked upon simply as a suburb of New York, that it was gaining the power of self-consciousness, and was developing commercial interests and educational institutions of its own, second to no others of their class in the country. He also spoke of the great need of a Museum of Art in the city, of the means by which it might be secured, of his confidence in the value of the movement inaugurated by the Institute, and closed

his address with a motion that the meeting accept the invitation of the Institute, and promise active support of the proposition to establish a Museum of Arts and Sciences.

The Rev. CHARLES R. BAKER seconded this motion, and spoke of the educating and uplifting influence of true Art, its great value to the rich as well as to the poor, and of the importance of securing among the earliest acquisitions a collection of casts of ancient, classic and mediæval sculptures, that not only would indicate what was true in Art but also would teach the history of its development.

The motion made and seconded was supported by the Rev. Dr. CHARLES H. HALL, who spoke of the early history of the Brooklyn Institute, and of the sterling sense and sagacity of its founder, Mr. AUGUSTUS GRAHAM; of the great need of institutions in Brooklyn that will be valuable to the scholar and the student; of the dearth of Public Art in the city; of the democratic character of the movement for a public museum, and of his confidence in a popular support of the undertaking, and of its ultimate success.

At the close of Dr. HALL's address, the motion made by Dr. BEHREND'S was put and unanimously adopted. The Hon. JOSHUA M. VAN COTT then moved that a committee of twenty-five citizens be appointed to act in conjunction with the Directors of the Brooklyn Institute in organizing an Association which should labor to secure a Museum of Art and Science for Brooklyn. The motion having been seconded and adopted, the following persons were appointed on the committee :

Rev. Dr. CHARLES H. HALL, Rev. Dr. RICHARD S. STORRS, Hon. SETH LOW, Rev. Dr. A. J. F. BEHREND'S, Hon. STEWART L. WOODFORD, ALEXANDER E. ORR, Rev. Dr. L. T. CHAMBERLAIN, DAVID H. HOUGHTALING, Hon. DARWIN R. JAMES, CHARLES PRATT, HENRY HENTZ, JOHN T. MARTIN, JOSEPH H. KNAPP, JOHN GIBB, JOSHUA M. VAN COTT, Rev. CHARLES R. BAKER, WILLIAM HAMILTON GIBSON, Rev. JOHN W. CHADWICK, A. AUGUSTUS HEALY, Hon. FREDERICK A. SCHROEDER,

CARLL H. DE SILVER, WILLIAM H. MALE, COL. HENRY T. CHAPMAN, WILLIAM BERRI, JOHN P. ADAMS and FRANK SQUIER. To this committee were afterwards added the following ladies : Mrs. F. H. WING, Miss MATILDA MCLEAN, Mrs. J. S. T. STRANAHAN, Mrs. S. B. DURYEA, Mrs. ALFRED C. BARNES, Mrs. S. V. WHITE, Mrs. HARRIET JUDSON, Miss SUSAN M. BARSTOW, Miss CHRISTINA ROUNDS, Mrs. S. H. ANDERSON, Miss CAROLINE B. LE ROW and Mrs. F. W. ROCKWELL.

The meeting was also addressed by the Hon. DAVID A. BOODY and the Rev. JOHN W. CHADWICK. Mr. BOODY spoke of the advantages that would accrue to the schools of the city from the presence of Museums of Art and Science in our midst ; of the greater value of the city as a place of residence, when such museums should be easily accessible ; of the increase in the value of real estate that must follow the acquisitions of large public institutions of the character contemplated, and of the public commendation and support which the movement would command as soon as it should take definite shape.

The Rev. Mr. CHADWICK said that a great public museum for the people, in its high aims of educating and refining, should not lose sight of the element of enjoyment ; that people whose day's labor was long and severe should find in a museum that which would give them rest and pleasure.

The Citizens' Committee as above constituted was instructed to take such steps as should be deemed wise to secure a site for a Museum Building, and to invite the cooperation of other associations in the city that were especially interested in Art and Science.

At the first joint meeting of the Committee and the Trustees, held on February 21st, Dr. CHARLES H. HALL was elected Chairman, and Prof. FRANKLIN W. HOOPER, Secretary. Dr. A. J. F. BEHRENS related the history of the early beginnings of the American Museum in New York, and thought the history contained valuable suggestions for the

Joint Committee. By request, Prof. FRANKLIN W. HOOPER gave an account of the origin and history of the Metropolitan Museum in Central Park. Mr. CHARLES PRATT said that the Museum should be one that would be valuable not only to Brooklyn but would attract people from the other side of the river and from a distance. He believed that private beneficence would contribute largely to the undertaking. Mr. WILLIAM BERRI said that he had some time ago sketched a plan for a movement similar to the one now undertaken, and thought the time was ripe for action. He thought that the history of similar undertakings in other cities should throw a good deal of light on the course to be pursued by the Committee. Mr. JOSHUA M. VAN COTT thought that the first thing to be secured was a site, and moved the appointment of a Committee on Site and Legislation. The motion prevailed and the Committee appointed consisted of Mr. VAN COTT, Gen. JOHN B. WOODWARD, Gen. STEWART L. WOODFORD, Hon. DAVID A. BOODY, Prof. FRANKLIN W. HOOPER, Mr. JOHN P. ADAMS and Mr. WILLIAM POTTS. The Chairman was also authorized to appoint a Committee on Organization and a Committee on Invitation, the last Committee to invite the co-operation of other associations interested in Art. Mr. JOHN P. ADAMS spoke of the practicability and value of the movement, and the Rev. L. T. CHAMBERLAIN, D.D., of the importance of inviting the co-operation of other organizations at as early a date as practicable.

The second meeting was called for March 7th to hear a report from the Committee on Site and Legislation. The substance of the report was incorporated in a form of bill to be introduced in the Legislature of the State, and was presented by Mr. VAN COTT. After some discussion of the report it was, on motion of Gen. JOHN B. WOODWARD, unanimously adopted. The bill as drawn by the Committee was introduced in the State Senate by Senator EUGENE F. O'CONNOR on March 11, was passed by both houses of the

Legislature without opposition, and was signed by the Governor early in June, when it became a law.

The bill, as passed, is entitled "An Act to reserve certain parts of Prospect Park, in the City of Brooklyn, from sale, and to authorize leases thereof for Art and Science Museums and Libraries." The act constitutes Chapter 372 of the Laws of 1889, and is as follows :

*" The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. So much of Chapter 373 of the Laws of 1870, of Chapter 795 of the Laws of 1873, and of Chapter 583 of the Laws of 1888, as authorizes or requires the Park Commissioners of the City of Brooklyn to sell any part of the lands in Prospect Park bounded northerly by land reserved for the Prospect Hill Reservoir and the Eastern Parkway, easterly by Washington avenue, southerly by the town of Flatbush, and westerly by Flatbush avenue, is hereby repealed.

SECTION 2. The Mayor and Park Commissioners of the City of Brooklyn are hereby authorized to designate and set apart such parts of the land mentioned in the First Section of this act as are not required for the maintenance and enlargement of said reservoir, and as they may deem proper, for building sites for Museums of Art and Science and Libraries, and may lease such sites, at a nominal rent and for terms not to exceed one hundred years, to any Corporation or Corporations now existing, or that may hereafter be created, for educational purposes, on such conditions as may be expressed in such leases ; *Provided*, nevertheless, that no buildings shall be erected by the Lessees upon such sites until suitable plans and specifications therefor shall have been submitted to and approved by the said Mayor and Commissioners ; and also *Provided*, that such Museums and Libraries shall at all reasonable times be free, open and accessible to the public and private schools of the said city,

and open and accessible to the general public on such terms of admission as the said Mayor and Commission shall approve, and shall also be subject to the visitation of the Board of Regents of the State of New York ; and also *Provided*, that if and when such Museums and Libraries, respectively, shall cease to be maintained according to the true intent and meaning of this act, such leases, respectively, shall be forfeited, and the sites and buildings thereon erected shall respectively revert to the City of Brooklyn.

SECTION 3. This act shall take effect immediately."

The land reserved from sale by the above act constitutes that portion of the so-called east-side lands that lie south of the Eastern Parkway and south and east of the Reservoir. The tract contains about forty-five acres on the summit and southern slope of Prospect Hill, adjacent to Prospect Park.

The first practical step was, therefore, completed at the close of the year 1888-9, by thus securing legislative provision for a proper site.

#### THE YEAR 1889-90.

The next step necessary was the incorporation of an institution whose purposes should be broadly those of the best Museums of Art and Science already in existence, that should have power under its charter of accomplishing its purposes, and that should absorb the old Brooklyn Institute as an organic part of itself.

Accordingly, during the autumn of 1889 the Sub-committee on Organizations from the Citizens' Committee on Museums held several meetings, and matured plans for a new corporation destined to be known as "The Brooklyn Institute of Art and Sciences." This plan was presented by the Sub-committee on Organization to the Committee of Citizens late in December, in the form of a proposed charter to be asked from the Legislature of the State. The form of the

charter was amended and then approved by the Citizens' Committee, and the Sub-committee was requested to seek the incorporation of the "Brooklyn Institute of Arts and Sciences" under the form of charter as adopted.

The bill to incorporate the new institution was introduced in the Senate by the Hon. JAMES W. BIRKETT, and in the Assembly by Hon. GEORGE L. WEED, during the month of February, 1890. The bill was passed by the Legislature on April 14th, and signed by Gov. HILL on April 23, 1890, thereby creating the corporation of the BROOKLYN INSTITUTE OF ARTS AND SCIENCES. The bill also authorized the old Brooklyn Institute to transfer its property to the new Institute of Arts and Sciences. A copy of the charter of the new institution is given in the Appendix.

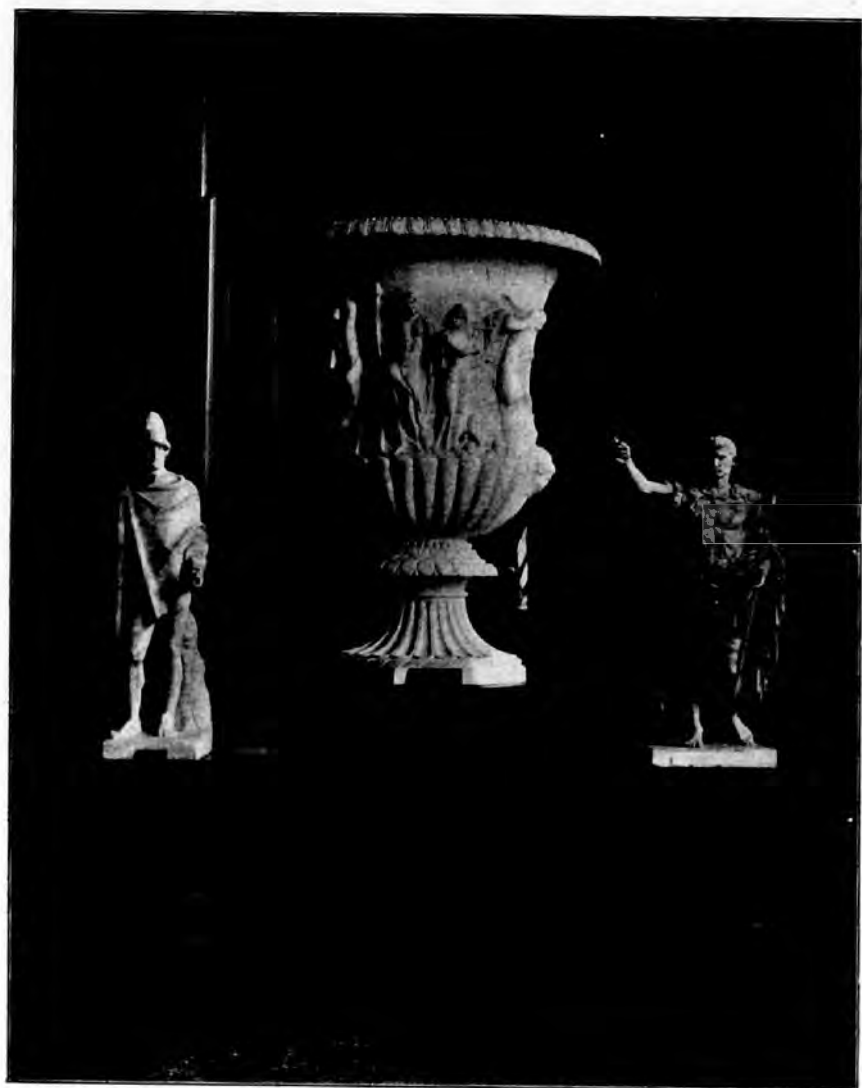
On May 1st, 1890, the gentlemen named as incorporators in the Act of Incorporation held a meeting, accepted their Charter, and in pursuance of Section 4 of the Charter, ordered a meeting of the Board of Trustees named in the Act of Incorporation, to be held on May 10th for the purpose of organizing the Board, electing officers and adopting a Constitution and By-Laws to govern the corporation.

At the meeting of the Trustees on May 10th, a temporary organization was effected and a Constitution and By-Laws were adopted. The meeting then adjourned until May 17th for the election of officers, and on that date the following officers were chosen: President, Gen. JOHN B. WOODWARD; Vice-Presidents, REV. RICHARD S. STORRS, D.D., LL.D., Hon. JAMES S. T. STRANAHAN and SAMUEL M. MEEKER; Director, Prof. FRANKLIN W. HOOPER; Treasurer, Mr. EDWIN BEERS; Secretary, Prof. ROBERT FOSTER, PH.D. In accepting the presidency of the corporation, Gen. WOODWARD thanked the Trustees for the honor conferred upon him, spoke of the value of the work to be undertaken by the new Institute, and announced that he would make the appointment of the committees required by the Constitution at the next meeting of the Board, and also would present





THE LATE GENERAL JOHN BLACKBURNE WOODWARD.  
TRUSTEE, 1867-1896; SECRETARY, 1885-1887; PRESIDENT, 1887-1895.



REPLICA OF THE BORGHESI VASE. PRESENTED BY THE COSMOS CLUB.  
MUSEUM BUILDING, FIRST FLOOR.

a plan for the accomplishment of the purposes of the corporation for the consideration of the Trustees.

The second meeting of the Trustees was held on Monday, June 23d. At this meeting the Standing Committees appointed by GEN. WOODWARD were announced, and recommendations for the work of the coming year were presented by President WOODWARD and adopted.

Thus was brought to a close the second full year of work in behalf of the Museum of Arts and Sciences for Brooklyn. The second step in the accomplishment of the original plans had been successfully taken.

#### THE YEAR 1890-1.

During this year the progress of the Museum plans was marked by four events of importance: (1) the enactment by the State Legislature of a law authorizing the City of Brooklyn to erect Museum Buildings on the Prospect Hill site, at an expense not exceeding \$300,000, as soon as the Endowment Funds of the new Institute should exceed \$200,000, and also authorizing the Mayor and Park Commissioners of the city to lease such Museum Buildings to the new Institute for a term not to exceed one hundred years, at a nominal rent; (2) the sale of the old Institute site in Washington street to the Trustees of the Brooklyn Bridge for Bridge Extension purposes, for the sum of \$74,000; (3) subscriptions to the Endowment Fund of the new Institute by a few public spirited citizens, Members of the Institute, amounting to \$51,500; and (4) a widespread public interest manifested by the citizens of Brooklyn in the work of the Institute and in the success of the Museum plans.

The bill authorizing the erection of the Museum Building and the lease of it to the new Institute was introduced in the State Senate by the Hon. JAMES W. BIRKETT and in the Assembly by the Hon. JOHN J. O'CONNOR, on February 9th, 1891. The bill was passed by the Senate on February 13th,

by the Assembly on March 4th, and was signed by the Governor on March 12th. The bill as introduced in the Legislature was approved by the Brooklyn City Government and by the Board of Trustees of the Brooklyn Institute of Arts and Sciences. The passage of the bill was by an unanimous vote both in the Senate and in the Assembly. The following is a copy of the new law and constitutes Chapter 89 of the Laws of 1891 :

An Act to provide for the erection of Museum Buildings on Park lands in the City of Brooklyn, and to authorize leases thereof to the Brooklyn Institute of Arts and Sciences.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The Mayor and the Park Commissioners of the City of Brooklyn are hereby authorized to construct, erect, and maintain on Park lands, bounded by Flatbush avenue, the Eastern Parkway, and Washington avenue, in the City of Brooklyn, a suitable fire-proof building or buildings, for the purpose of establishing and maintaining therein, under proper rules and regulations, to be approved by the said Mayor and Commissioners, Museums of Art and Science by The Brooklyn Institute of Arts and Sciences, incorporated by Chapter 172 of the Laws of eighteen hundred and ninety, at an aggregate cost not exceeding a sum of which the annual interest, at the rate of interest at which a fund or bonds shall be issued, is nine thousand dollars, and the Mayor, Comptroller and City Clerk of said city are hereby authorized to prepare and issue bonds of the City of Brooklyn, to be known as Museum of Art and Science bonds, signed, sealed and countersigned in the same manner as other bonds of said city, and bearing interest at a rate not to exceed three per centum per annum, payable semi-annually, to be issued in such form and for such length of

time as the said Mayor and Comptroller, in their judgment, may determine; and the said bonds shall be exempt from taxation, and the proceeds received from the sale of said bonds, and all premiums thereon, shall be paid to the City Treasurer of the City of Brooklyn, to the credit of a fund which is hereby created to be known as the Museum of Art and Science Fund, and shall be paid out from time to time as required for the purpose of constructing, erecting and maintaining said building or buildings upon the requisition of the Mayor and Park Commissioners of said city; but no bonds shall be issued for the erection of said Museum Buildings unless the said Brooklyn Institute of Arts and Sciences shall have duly certified to the said Mayor and Comptroller that the funds of the said Institute in hand and applicable to the support and maintenance of the said Museum and the purposes of its incorporation shall exceed two hundred thousand dollars.

SECTION 2. The said Mayor and Park Commissioners are hereby authorized and directed, on the erection of said Museum Buildings, to lease the same to the Brooklyn Institute of Arts and Sciences for the purpose of establishing and maintaining therein Museums of Art and Science and carrying out the purpose of said Institute, at a nominal rent and for a term not exceeding one hundred years, and on such other conditions as may be expressed in such leases; and that the said Museums and their contents shall be open and accessible to the public, as authorized in Sec. 2, Chap. 372, of the Laws of eighteen hundred and eighty-nine.

SECTION 3. This act shall take effect immediately.

The sale of the old Institute site in Washington street to the Trustees of the New York and Brooklyn Bridge was effected in July, 1891, through the appraisalment of a Commission appointed by the courts. The net proceeds of the sale were \$72,000.

The total invested funds of the old Brooklyn Institute on

August 1, 1891, were \$139,406. The subscriptions to the Endowment Fund of the new Institute of Arts and Sciences, on the same day, amounted to \$51,500. The total available funds of the two institutions at the close of the third year's work in behalf of the Museums of Art and Science were \$190,906, or within \$9,094 of the amount required by law before a Museum Building could be erected.

#### THE YEAR 1891-2.

During this year \$16,000 were subscribed to the Endowment Fund, making the total fund \$206,906, or \$6,906 in excess of the amount required by law before the Museum Building could be erected. The Mayor and Park Commissioner of the city designated as the site of the Museum Building on Prospect Hill, that portion of Institute Park that is bounded by the Eastern Parkway on the north, Washington avenue on the east, the southerly line of old President street on the south, and on the west by the Prospect Hill reservoir lands. The plot is 725 feet in width, and 750 feet in average length, and comprises about eleven and nine-tenths acres. It is the most desirable site for a large public building in Brooklyn. A large building located upon the site must be one of the most commanding structures in the State. The site having been definitely chosen, steps were immediately taken to secure a suitable plan and design for the proposed Building.

#### THE YEAR 1892-3.

During this year the Endowment Funds were increased to \$211,906.00; the Charter of the Institute was amended by an Act of the Legislature which provides that the Mayor, the Comptroller and the Park Commissioner of the City of Brooklyn shall be *ex-officio* members of the Corporation and of the Board of Trustees of the Institute; and a most admirable plan and design for the Museum Building was secured through a competition among architects.

The amendment to the Charter was sought by both the Board of Trustees of the Institute and by the Mayor of Brooklyn, on the twofold ground (1) that the Institute is broadly representative of the public interests of the city in educational matters, and (2) that its Museums will be erected on public land and in some measure at public expense. A copy of the Act amending the Charter is given in the Appendix.

The design for the Museum Building, obtained by the competition, commends itself both on account of its beauty and its simplicity. Briefly described, it will be a building containing three stories and a basement, about five hundred and fifty feet square, and provided with four large interior courts. A prospective view of the building is given as a frontispiece to this volume, and a ground plan on the opposite side of the leaf.

The building will be surrounded by a slope of green about one hundred and twenty-five feet in width and on the south the Museum will overlook the Botanic Garden and Arboretum, and Prospect Park, and will have an unobstructed view to the east, south and west. On the north the Museum will face the Eastern Parkway, and above the basement story will have an unobstructed view to the north and west.

The plan of the first or principal floor is as follows: Through the central axis of the building running north and south and connecting the two main entrances to the building is the great hall of sculpture, divided at the center by the Memorial Hall, which occupies the central dome of the building. The hall of sculpture will celebrate the Art of Sculpture. In the portion north of Memorial Hall will be placed the best representatives of Ancient Sculpture, and in the portion south of Memorial Hall the best representatives of Modern Sculpture. Along the east and west axis of the building will be located, at the east end, the large auditorium for lectures, concerts and anniversary addresses, and at the west end the great exhibition hall for loan collections—the

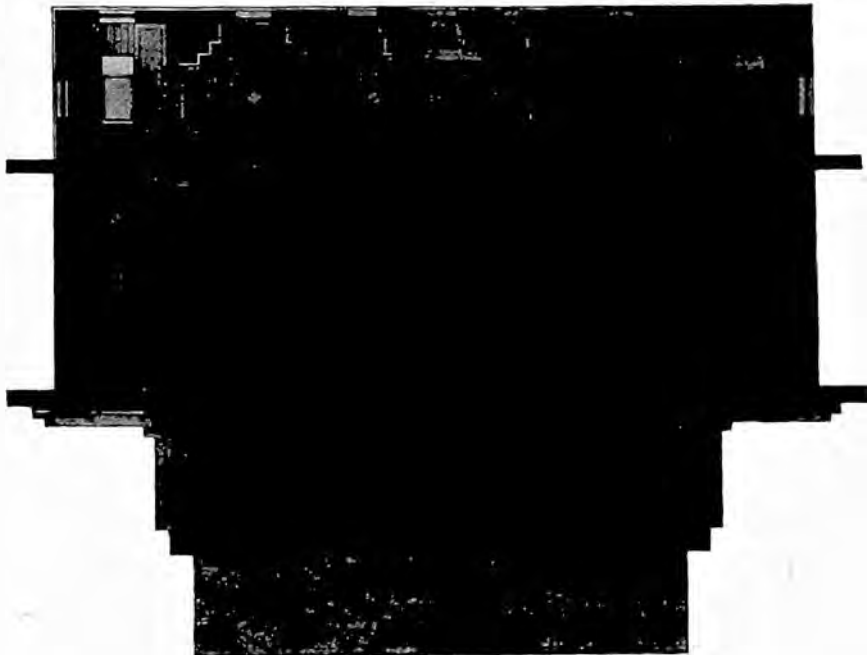
auditorium and exhibition hall opening at the center of the building into the Memorial Hall and forming a grand suite of rooms.

The remaining portion of the first floor will be occupied with collections representing the history of Architecture, Sculpture and allied arts. The northeastern court, with the galleries adjacent, will be occupied by Chaldæan, Assyrian and Egyptian Art, and by American and Eastern prehistoric Archæology. The northwestern court and the adjacent galleries will be devoted to Græco-Roman Art. The southwestern court and adjacent galleries will be used for Mediæval Art, including Byzantine, Romanesque and the different developments of Gothic Art. The southeastern court and adjacent galleries will contain the history of Modern Art, including the different developments of the Renaissance, Mohammedan Art, Chinese Art, Japanses Art and Recent Art. Type rooms will be constructed in the four sections of the Museum above mentioned to illustrate each of the great art movements in ancient, Græco-Roman, mediæval and modern times. The four great courts, which will be covered with glass at the roof of the building, will contain the larger objects representing each period.

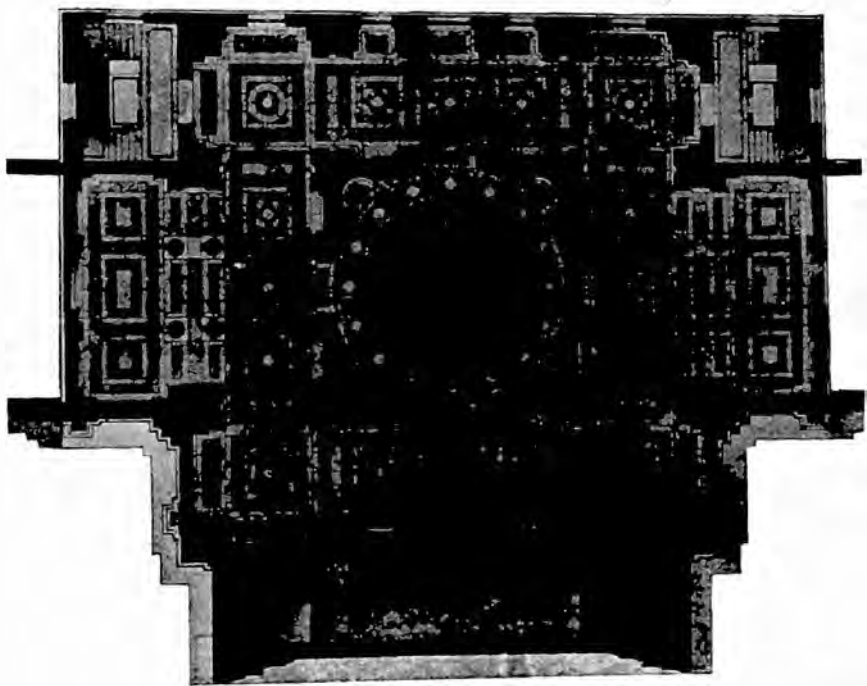
The large auditorium and the large exhibition hall will each rise through the three stories of the Museum, and have galleries on the second and third floors. The auditorium will be reached mainly from the entrances and porte-cochère on the eastern façade, next to Washington avenue, and the exhibition hall mainly from the western entrance and porte-cochère.

The second floor will be occupied chiefly by the literary and scientific Departments of the Institute. At the center of the east front will be the lecture room for the Departments of Fine Art, Philology, Political Science, and Law. At the center of the north front a lecture room for the Departments of Anthropology, Archæology, Geography, Pedagogy and Psychology. At the center of the southern

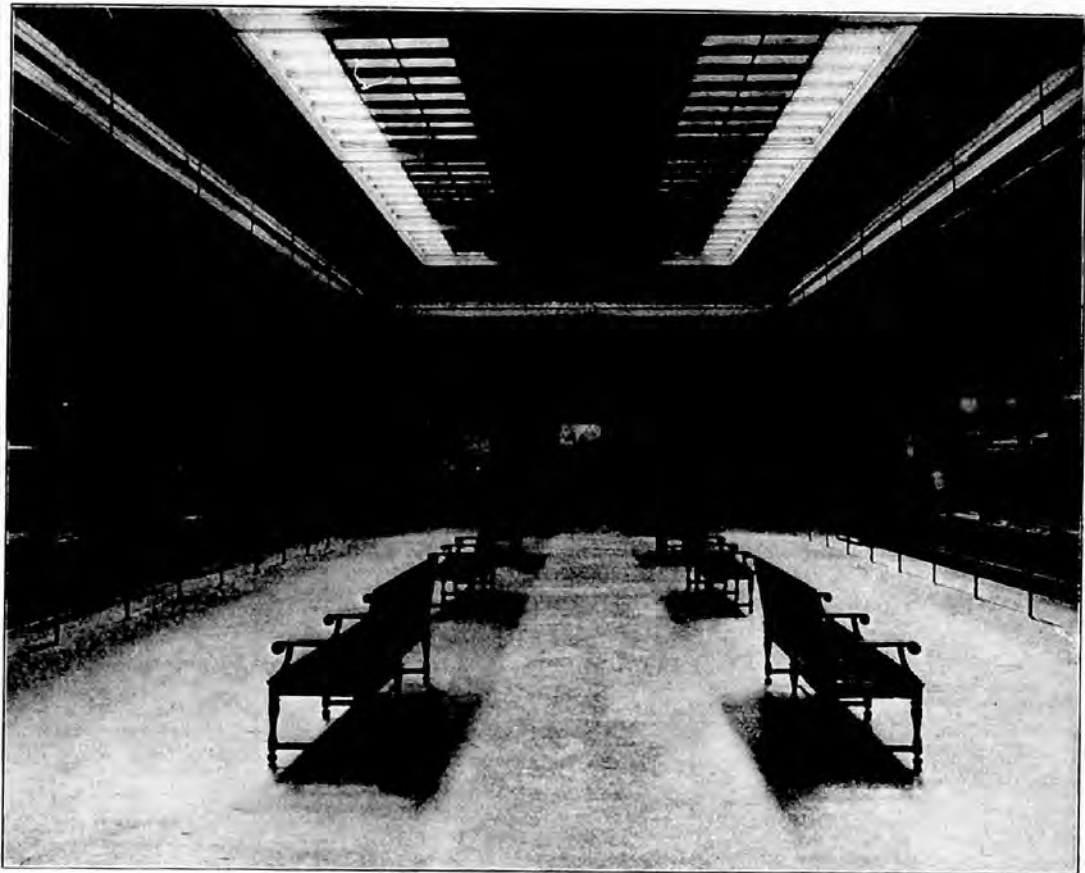




PLAN OF THE HALL OF SCULPTURE AND THE NORTH PORTICO  
OF THE MUSEUM BUILDING (125 x 130 ft)



PLAN OF THE CENTRAL LIBRARY ROOM OF MUSEUM BUILDING,  
SHOWING POSITIONS FOR STATUES (125 x 130 ft.)



EAST GALLERY OF PAINTINGS. MUSEUM BUILDING, THIRD FLOOR.

façade will be a lecture room for the Departments of Geology, Mineralogy, Zoölogy, Botany, Entomology, and Microscopy. The Departments of Astronomy, Physics, and Mathematics will have rooms in the Astronomical Building. The collections of the Departments of Law, Political Science, Geography, and Microscopy will occupy the northeast galleries of this floor; the collections in Anthropology, Pedagogy, and Psychology, the northwest galleries; the collections in Geology and Mineralogy, the southeast galleries, and the collections in Zoölogy, Botany, and Entomology, the southwest galleries. At the center of the west façade, and connected with the large exhibition hall, will be the refectory, overlooking the Prospect Hill Reservoir.

The third floor will be occupied by the music room, the general reference library, the galleries for painting, etching, and allied arts, and the galleries for domestic art and science. The music room will occupy the center of the south façade, and open widely into suites of the galleries of the loan collections of paintings and domestic art to the east and west. The library will occupy the center of the north front, and open widely into picture galleries to the east and west. The northeast galleries will contain historical paintings, and the northwest galleries, recent paintings. The southeast galleries will contain loan collections of paintings and historic works in black and white. The southwest galleries will contain recent works in black and white, and collections illustrating domestic art and science.

The central axes of the building will rise one story higher than the outer portions of the building. In this upper or fourth story the Department of Engineering will occupy the eastern wing, the Department of Electricity the western wing, the Department of Chemistry the southern wing, the Department of Music the northern wing, and the central portion will contain the Schools of Painting, Sculpture, and Architecture and the rooms of the Department of Photography.

The main stairways and elevators are on either side of the

central axes in the north and south sections of the building. The basement story will be twenty-five feet high, except in the northwestern sections, which will be nineteen and fourteen feet, respectively. The basement will contain lecture rooms, offices, working rooms, storage rooms and apparatus for heating, ventilating and lighting the entire building. The building will be completely fireproof.

The Memorial Hall will constitute the central and the crowning feature of the building; it will rise from the first floor to the arch of the central dome of the structure. It is designed to receive sculptures that will commemorate the lives of those who have been the most distinguished servants of our country, state and city.

#### THE YEAR 1893-4.

During the season of 1893-4 the progress of the Museum movement was marked by five events of importance: (1) The completion of the plan and design for the Museum Building by the architects, Messrs. MCKIM, MEAD & WHITE, according to the outlines given in the drawings, submitted in the original competition, and described on the foregoing pages. (2) The making of detail drawings, plans and specifications for the first section of the Museum to be erected. (3) The lease by his HONOR, DAVID A. BOODY, Mayor, and the HON. GEORGE V. BROWER, Park Commissioner, of eleven and nine-tenths acres of land in Institute Park to the Brooklyn Institute of Arts and Sciences, for a term of one hundred years, at one dollar per year, as a site for the Museum Building, in accordance with Chapter 372 of the Laws of 1889, the lands being bounded on the north by the Eastern Parkway, on the east by Washington avenue, on the south by a line 100 feet south of the southerly line of old President street and parallel thereto, and on the west by the westerly line of Grand avenue, said line being the easterly boundary of the Reservoir lands on Prospect Hill and in continuation thereof. (4) The passage of a bill by the

State Legislature authorizing the city to fill and grade the lands, including the site of the Museum building, at an expense not to exceed \$50,000.00; and (5) an amendment to the law authorizing the city to erect a section of the Museum building, increasing the rate of interest on the Museum of Art and Science bonds to a rate not exceeding 4 per cent. per annum, thereby enabling the city to make a sale of its bonds.

The section of the building which the Trustees recommended to be first erected comprised one wing facing the Eastern Boulevard, plans for which were prepared by the architects as stated above. The section is 190 feet in length, 55 feet in average depth, and three stories in height above the basement. The first story is designed for collections in Architecture, Sculpture, Archæology, and Ethnology, the second for the scientific collections of the Institute, and the third, which is lighted from the roof only, for collections of paintings, etchings, and other works of art in color and in black and white.

The amendment to the law authorizing the city to erect a section of the Museum building was passed in April, and was signed by the Governor on May 6, 1894. It is as follows:

#### CHAPTER 577, LAWS OF 1897.

An Act to amend Chapter eighty-nine of the Laws of eighteen hundred and ninety-one, entitled "An Act to provide for the erection of museum buildings on Park lands in the City of Brooklyn, and to authorize leases thereof to the Brooklyn Institute of Arts and Sciences."

*The People of the State of New York, represented in Senate and Assembly, do enact as follows:*

SECTION 1. Section one of Chapter eighty-nine of the Laws of eighteen hundred and ninety-one, entitled "An Act to provide for the erection of museum buildings on park lands in the City of Brooklyn, and to authorize leases thereof

to the Brooklyn Institute of Arts and Sciences," is hereby amended so as to read as follows :

SECTION 1. The Mayor and the Park Commissioner of the City of Brooklyn are hereby authorized to construct, erect and maintain on park lands, bounded by Flatbush avenue, the Eastern Parkway and Washington avenue, in the city of Brooklyn, a suitable fireproof building or buildings, for the purpose of establishing and maintaining therein, under proper rules and regulations, to be approved by the said mayor and commissioner, museums of art and science, by the Brooklyn Institute of Arts and Sciences, incorporated by Chapter one hundred and seventy-two of the Laws of eighteen hundred and ninety, at an aggregate cost not exceeding a sum of which the annual interest, at the rate of interest at which a fund or bonds shall be issued, is twelve thousand dollars, and the mayor, comptroller and city clerk of said city are authorized to prepare and issue bonds of the City of Brooklyn, to be known as museums of art and science bonds, signed, sealed and countersigned in the same manner as other bonds of said city, and bearing interest at a rate not to exceed four per centum per annum, payable semi-annually, to be issued in such form and for such length of time as the said mayor and comptroller, in their judgment, may determine, and the said bonds shall be exempt from taxation, and the proceeds received from the sale of said bonds and all premiums thereon shall be paid to the city treasurer of the City of Brooklyn, to the credit of a fund which is hereby created, to be known as the museum of art and science fund, and shall be paid out from time to time, as required for the purpose of constructing, erecting and maintaining said building or buildings, upon the requisition of the mayor and park commissioner of said city ; but no bonds shall be issued for the erection of said museum building unless the said Brooklyn Institute of Arts and Sciences shall have duly certified to the said mayor and comptroller that the funds of the said Institute in hand and applicable to the support and main-

tenance of the said museums and the purposes of its incorporation shall exceed two hundred thousand dollars.

SEC. 2. All acts and parts of acts inconsistent with this act are hereby repealed.

SEC. 3. This act shall take effect immediately.

#### THE YEAR 1894-5.

The conditions necessary for the commencement of work on the Museum Building all being favorable, the Board of Trustees petitioned his Honor, the Mayor of Brooklyn, on Monday, January 14th, to issue bonds of the City of Brooklyn to the amount of \$294,000, to be known as Museum of Art and Science Bonds, as authorized by law, and on the sale of said bonds to authorize the construction of the first section of the Museum Building. The Mayor consented to the issue and sale of the bonds, provided the cost of the first section when completed should not be more than \$294 000. With this assurance from the Mayor, the architects prepared working plans and specifications; the Mayor and Park Commissioner of the city advertised for bids for the construction of the section to be first erected; the site of the Museum was surveyed, and the base line of the building was fixed at 170 feet above sea level, and about 10 feet above the Eastern Parkway.

#### THE YEAR 1895-6.

On September 1, 1895, the contract for erecting the first section of the Museum of Arts and Sciences was made with Messrs. P. J. CARLIN & CO., at \$254,675. During the months of September and October the site of the Museum Building was graded. On September 14th the ground was broken for the foundations of the buildings by the Hon. FRANK SQUIER, Park Commissioner, with appropriate ceremonies. On December 14th the corner-stone of the structure was laid by his Honor, Mayor CHARLES A. SCHIEREN, with appropriate addresses and other exercises. The work of

construction was pushed during the entire year, and on July 1, 1896, the roof trusses were put in place.

In December, 1895, his Honor, Mayor SCHIEREN, and the Hon. FRANK SQUIER, constituting the Commission on the Museum Building, recommended that legislation be sought during the session of the Legislature of the State in 1896, authorizing the appropriation of a sum sufficient to complete the north façade of the building. This recommendation was approved by the Board of Trustees of the Institute in January, 1896. A bill was prepared by the Corporation Counsel, the Hon. ALBERT G. McDONALD, embodying the recommendation of the city officials, in January. This bill, with some modifications, was also approved by his Honor, Mayor FREDERICK W. WURSTER, in February; was introduced in the State Senate by the Hon. GEORGE W. BRUSH, M.D., and in the Assembly by the Hon. GEORGE W. WILSON; passed the Senate in March; in the Assembly in April, and was signed by his Excellency, LEVI P. MORTON, Governor, on April 27th. The law is known as Chapter 406 of the Laws of 1896, and reads as follows:

An Act to provide further means to carry out the provisions of Chapter eighty-nine of the Laws of eighteen hundred and ninety-one, entitled "An Act to provide for the erection of museum buildings on Park lands in the city of Brooklyn, and to authorize leases thereof to the Brooklyn Institute of Arts and Sciences," as amended by Chapter five hundred and seventy-seven of the Laws of eighteen hundred and ninety-four.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows:*

SECTION 1. For the purpose of meeting the expense of constructing, erecting and maintaining the building or buildings authorized to be constructed, erected and maintained by the provisions of Chapter eighty-nine of the Laws of



eighteen hundred and ninety-one, entitled "An Act to provide for the erection of museum buildings on park lands in the city of Brooklyn, and to authorize leases thereof to the Brooklyn Institute of Arts and Sciences," as amended by Chapter five hundred and seventy-seven of the Laws of eighteen hundred and ninety-four, the mayor and comptroller of said city are hereby authorized, from time to time, upon the requisition of the mayor and commissioner of parks of said city, to prepare and issue bonds of the City of Brooklyn, not exceeding in the aggregate the sum of six hundred thousand dollars, exclusive of premiums received thereon, to be known as "Museum of Art and Science bonds," signed, sealed and countersigned in the same manner as other bonds of said city, to be issued in such form and for such length of time as said mayor and comptroller in their judgment may determine, and the proceeds received from the sale of said bonds and all premiums thereon shall be paid into the treasury of the City of Brooklyn to the credit of the fund known as the "Museum of Art and Science fund," and shall be paid out, from time to time, as required for the purpose of constructing, erecting and maintaining said building or buildings, upon the requisition of the mayor and commissioner of parks of said city. No bonds shall be issued under the authority of this act until the year eighteen hundred and ninety-seven, and no more than three hundred thousand dollars of said bonds shall be issued in any one year. The amount so authorized shall be in addition to that already authorized to be issued under the acts aforesaid.

SEC. 2. This Act shall take effect immediately.

#### THE YEAR 1896-7.

This year was marked by nine important events in the History of the Movement to establish Museums of Art and Science for the Institute, as follows :

(1) The issue and sale by the City of Brooklyn of Museum of Art and Science bonds under the authority given by

Chapter 577 of the Laws of 1894, amounting to \$25,000, with which to provide for the furniture and fixtures of the Museum Building.

(2) The completion of the first Section of the Museum Building in March, 1897, at a total expense, including boilers, engines, dynamos, electric elevator, electric lighting plant, grading of grounds around the building, concrete sidewalk on Eastern Parkway, carriage road and footpath approaches, of \$299,450.

(3) The furnishing of the first Section of the Museum Building, in part, with Museum cases, fixtures, settees, tables, etc., at an expense of about \$21,000.

(4) The passage by the State Legislature of a law providing for the cost of the heating, lighting and care of the Museum Building. The law constitutes Chapter 521 of the Laws of 1897, and is as follows :

An Act to provide for the heating, lighting and care of the Museum Building of the Brooklyn Institute of Arts and Sciences in the City of Brooklyn.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. For the purpose of providing for the heating, lighting and care of the Museum Building of the Brooklyn Institute of Arts and Sciences, the board of estimate of said city is hereby authorized, in its discretion, to appropriate from the Museum of Art and Science fund, as constituted by Chapter eighty-nine of the Laws of eighteen hundred and ninety-one, an amount not exceeding ten thousand dollars, to be used for the heating, lighting and care of said building during the year eighteen hundred and ninety-seven, and the financial officers of said city are hereby authorized to pay over the amount so appropriated to the Trustees of the said The Brooklyn Institute of Arts and Sciences, to be used for such purposes.

SEC. 2. This act shall take effect immediately.

This measure was introduced in the Legislature by Assemblyman EDWARD C. BRENNAN, and became a law on May 18, 1897. Under this act the transfer of \$10,000 was made as authorized, and that amount was paid to the Board of Trustees of the Institute.

(5) Regulations governing the use of the Museum by the public were adopted by the Board of Trustees and were approved by the Mayor and Park Commissioner of the City of Brooklyn as required by Chapter 372 of the Laws of 1889. The regulations were as follows :

I. The exhibition halls of the Museum of the Brooklyn Institute of Arts and Sciences shall be open free to the public from 9 A. M. until 6 P. M. on Wednesday, Thursday, Friday and Saturday of each week, and on all legal holidays except Sunday ; also on Thursday and Friday of each week, from 7.30 until 9.45 P. M., and on Sunday afternoons from 2 until 6 o'clock.

II. The exhibition halls of the Museum Building shall be open to the public on the payment of an admission fee on Mondays and Tuesdays from 9 A. M. to 6 P. M. throughout the year, and may be open on special occasions on Monday and Tuesday evenings. The admission fee on Mondays or Tuesdays, day or evening, shall be regularly twenty-five cents for adults, and ten cents for children under the age of sixteen. On the occasion of the opening exhibition of new or loan collections the admission fee may be increased on these days to a sum not exceeding one dollar.

III. The exhibition halls of the Museum Building shall be open and free to the public schools of the City of Brooklyn at all reasonable times, and for the present between the hours of 3 and 5 o'clock on Wednesday, Thursday and Friday afternoons, and on Saturdays from 9 A. M. to 6 P. M.

IV. The Board of Trustees of the Brooklyn Institute of Arts and Sciences may issue to specialists or students engaged in study or research at the Museum Building, permits to enter the said building and to use collections

contained therein on Mondays and Tuesdays, between the hours of 9 A. M. and 6 P. M. without cost, subject to such rules and precautions as may be necessary to protect property contained in said building.

V. These rules may be modified at any time by the Board of Trustees with the approval of the Mayor and Park Commissioner of the City of Brooklyn.

(6) A very large Loan Collection of Paintings and other works of art was made under the auspices of a special committee from the Board of Trustees, consisting of Col. HENRY T. CHAPMAN, Jr., Chairman, and Messrs. CARLL H. DE SILVER and JOHN S. JAMES, during the months of April and May, in the galleries on the first and third floors of the Museum. This collection was described in full in the Year Book of 1896-7.

(7) The opening of the Museum to the public, on June 2, 1897, and on the days and evenings following. On the evening of Wednesday, June 2d, upwards of one thousand guests of the Board of Trustees and Council of the Institute were received in the Hall of Greek Sculpture by his Honor, FREDERICK W. WURSTER, Mayor, and the Hon. JACOB G. DETTMER, Park Commissioner, representing the City of Brooklyn, and by ex-Mayor CHARLES A. SCHIEREN, Acting President of the Institute, and the Hon. JAMES S. T. STRANAHAN, Vice-President of the Institute, representing the Board of Trustees and Council.

On Thursday, June 3d, day and evening, the Museum was open to Members of the Institute and their invited friends, and on Friday and Saturday, June 4th and 5th, and on Sunday afternoon, June 6th, the Museum was open to all. On and after June 7th the Museum has been kept open in accordance with the regulations adopted by the Board of Trustees and approved by the Mayor and Park Commissioner.

(8) The passage of a law providing for the establishment of a Botanic Garden and Arboretum on Park lands adjacent

to the Museum site, and forming a proper approach from the southeast, south and southwest to the Museum Building. The law comprises Chapter 509 of the Laws of 1897, and is as follows :

An Act to provide for the establishment of a Botanic Garden and Arboretum on Park lands in the City of Brooklyn, and for the care of the same.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The Park Commissioner of the City of Brooklyn is hereby authorized and required to set apart and appropriate all of that portion of Prospect Park bounded northerly by the Eastern Parkway, easterly by Washington avenue, southerly by the line formerly dividing the City of Brooklyn from the late town of Flatbush, and westerly by Flatbush avenue, excepting only such lands as have been reserved for the Prospect Hill reservoir, and such other lands as have been leased to the Brooklyn Institute of Arts and Sciences, for the establishing and maintaining thereon of a Botanic Garden and Arboretum for the collection and culture of plants, flowers, shrubs and trees, the advancement of botanical science and knowledge, and the prosecution of original researches therein and in kindred subjects, for affording instruction in the same, and for prosecution and exhibition of ornamental and decorative horticulture and gardening, and for the entertainment, recreation and instruction of the people, and the said lands so set apart and appropriated shall be used for no other purposes than those authorized by this Act.

SEC. 2. The said Park Commissioner, or his successor or successors, is hereby authorized and directed to cause said lands, bounded and described in Section 1 of this Act, to be laid out as a Botanic Garden and Arboretum, and as a

proper approach to the Museum Building of the Brooklyn Institute of Arts and Sciences, by a competent landscape gardener, and on plans approved by the said Park Commissioner, or his successor or successors, and said proper approach to the Museum Building shall be subject to the approval of the Board of Trustees of said Institute. And means for the proper construction, planting, equipment and maintenance of said Garden and Arboretum shall be provided in the same manner as for the support and maintenance of other park lands in the City of Brooklyn.

SEC. 3. This act shall take effect immediately.

The above measure was introduced in the Legislature by the Hon. GEORGE W. BRUSH, M.D., and became a law on May 18, 1897.

(9) The remaining measure, enacted during the year 1896-7, affecting the Museum movement, may be found in Chapter 378 of the Laws of 1897, which comprises the Charter of "Greater New York."

Section 609 of the Charter provides that : " Real and personal property may be granted, devised, bequeathed or conveyed to the City of New York, as constituted by this act, for the purposes of the improvement or ornamentation of the parks, squares or public places in said city, or for the establishment or maintenance, within the limits of any such park, square or public place, of museums, zoölogical, botanical or other gardens, collections of natural history, observatories or works of art, upon such trusts and conditions as may be prescribed by the grantors or donors thereof, and be accepted by the department ; and all property so devised, granted, bequeathed or conveyed, and the rents, issues, profits and income and increase thereof shall be subject to the management, direction and control of the commissioner for the borough or boroughs in which the same is situated or to which it appertains. \* \* \* \* \*

Section 613 of the Charter provides that : " It shall be the duty of the commissioner for the boroughs of Manhattan and Richmond to maintain the meteorological and astronomical observatory, the Museum of Natural History, the Metropolitan Museum of Art in Central Park, the Aquarium in Battery Place, and such other buildings as now are or may hereafter be erected in such parks or in any other park, square or public place under his jurisdiction by authority of the municipal assembly. It shall be the duty of the commissioner for the boroughs of Brooklyn and Queens to maintain the Brooklyn Institute of Arts and Sciences and such other buildings as now are or may hereafter be erected in any park, square or public place under his jurisdiction by authority of the municipal assembly. It shall be the duty of the commissioner for the borough of the Bronx to maintain the New York Botanical Garden and the buildings appurtenant thereto, and such other institutions or buildings as may be established or erected in any park, square or public place in his jurisdiction by authority of the municipal assembly. It shall be the duty of the several commissioners to provide the necessary instruments, furniture and equipments for the several buildings and institutions within their respective jurisdictions, and, with the authority of the municipal assembly, to develop and improve the same, and to erect additional buildings ; but the maintenance of all such buildings and institutions shall be subject to the provisions of the acts incorporating said institutions or either of them, and the acts amendatory thereof, and to the powers of said corporations thereunder, and of the boards by such acts created or provided for ; and shall also be subject to and in conformity with such contracts and agreements as have heretofore been made with such institutions respectively, and are in force and effect when this act takes effect, or as may be hereafter made by the authority of the municipal assembly, and no moneys shall be expended for such purposes unless an appropriation therefor has been made by the

Board of Estimate and Apportionment and the municipal assembly. Out of the moneys annually appropriated for the maintenance of parks each commissioner may apply such sum as shall be fixed by the Board of Estimate and Apportionment for the keeping, preservation and exhibition of the collections placed or contained in buildings or institutions now situated or hereafter erected in the parks, squares or public places under the jurisdiction of such commissioner."

Section 624 of the Charter provides that : "The commissioner for the boroughs of Brooklyn and Queens is hereby authorized and directed to continue the contract and lease with the Brooklyn Institute of Arts and Sciences, for the occupation by it of park lands and of a building or buildings erected or to be erected on that portion of Prospect Park bounded by the Eastern Parkway on the north, Washington avenue on the east, a line parallel to old President street, and one hundred feet south of the southerly line of said street, on the south, and on the west by the easterly line of land reserved for the Prospect Hill Reservoir, and in continuation thereof, for establishing and maintaining thereon its museum, library and collections ; and for carrying out the plans and purposes of said Institute and for the maintenance of said museum building or buildings, and for the keeping, preservation and exhibition of collections placed therein, a sum not less than twenty thousand dollars shall be appropriated annually by the said City of New York, as constituted by this act."

#### THE YEAR 1897-8.

During the twelve months following the completion of the first section of the Museum Building the following events have characterized the development of the Museum movement in Brooklyn.

(1) Additions to the furniture and equipment of the Museum Building of Museum cases, supports and pedestals



for collections and statuary, furniture and apparatus at an expense of about \$13,000.00.

(2) The appropriation by the City of Brooklyn of \$10,000.00 to meet the cost of the maintenance of the Museum Building, including the heating, lighting and care of the same, during the period from June 1st to December 31st, 1897.

(3) The appropriation by the City of New York of the sum of \$20,000.00 to meet, during the year 1898, the expense of maintaining the Museum Building, including the heating, lighting and care of the same, providing the necessary instruments, furniture and equipment for the Museum, and keeping, preserving and exhibiting the collections placed therein.

(4) The Exhibition of two large Loan Collections of Paintings in the galleries on the third floor of the Museum. The first collection was described in the Year Book for 1896-7. The second collection is described in the Year Book for 1897-8.

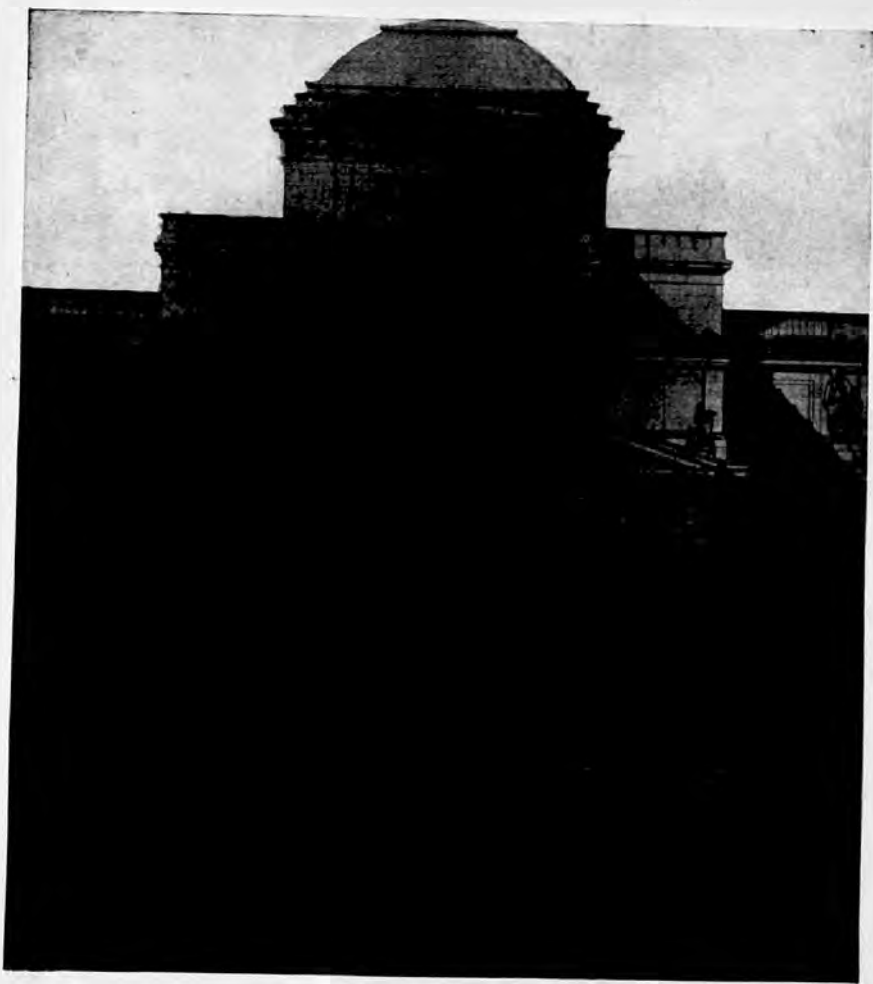
(5) Very large additions were made to the collections in each of the Departments of Art and Science through the generosity of public-spirited Members of the Institute and citizens of Brooklyn and Manhattan. These additions were described in the Year Book for 1897-8 under the several Departments respectively.

#### THE YEAR 1898-9.

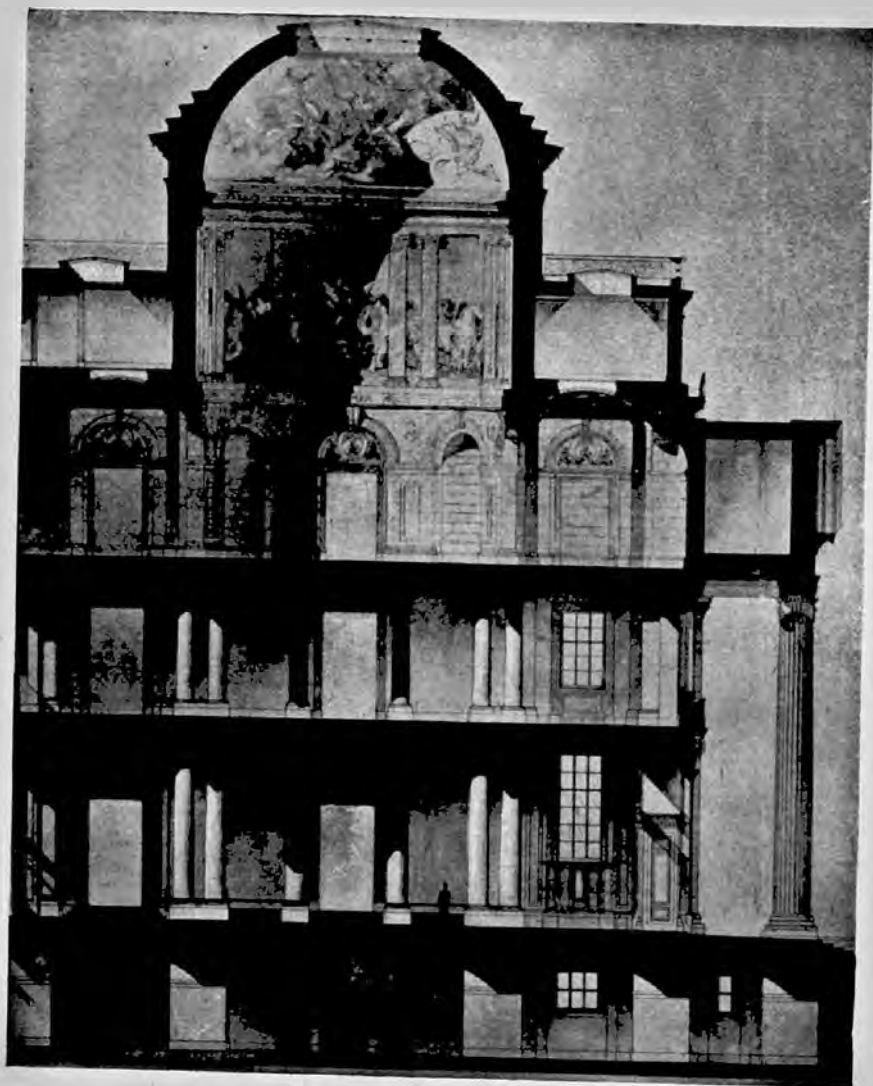
During the year just closed the Museum has received gifts (1) from Mr. FRANK S. JONES, a Member of the Board of Trustees, of the Berthold Neumoegen collection of Lepidoptera, made during a period of twenty years, and at an expense to Mr. NEUMOEGEN of upwards of \$75,000; (2) from Mr. EDWARD L. GRAEF, Life Member of the Institute, his collection of Lepidoptera, made during a period of twenty-five years, and at an expense of upwards of \$15,000; (3) from Mr. A. AUGUSTUS HEALY, President of the Board of Trustees of the Institute, a colored majolica lunette,

representing the "Resurrection of Christ," made by GIOVANNI DELLA ROBBIA, in Florence, in about the year 1520, and brought from the Antinori Villa, near Florence, in the autumn of 1898, by special permission of the Italian Government ; (4) an oil portrait of WILLIAM CULLEN BRVANT, painted by the late WYATT EATON, from life, presented by Mr. WILLIAM T. EVANS, of New York ; (5) the gift of several casts representing Græco Roman sculpture, described under the Department of Fine Arts ; (6) from the U. S. GRANT POST, a large Chinese figured embroidery ; and from many Members of the Institute, donations to the scientific and art collections and to the library of the Institute, as described under the different Departments in this Year Book.

The history of the Museum has been further notable (1) in the appointment of Prof. WILLIAM H. GOODYEAR, M. A., as Curator of the Department of Fine Arts ; (2), in the appointment of Mr. JACOB DOLL, as Curator of the Department of Entomology ; (3) in the establishment of free lectures on "The History of Art as Related to the History of Civilization," given by Prof. GOODYEAR ; (4) in the purchase of apparatus illustrating the sciences of Physics, Microscopy, Geography, Geology and Ethnology, at an expense of \$3,500 ; (5) in the construction of museum cases, at an expense of \$5,000 ; (6) in the construction, under the direction of the Department of Parks of the City of New York, of a terrace on the Museum grounds, forming the southern embankment of the Museum site ; (7) in the appropriation by the City of New York, for the maintenance and improvement of the Museum, of \$46,875, to be expended during the year 1899 ; and (8) in the application by the Department of Public Buildings of the City of New York to the Board of Estimate and Apportionment for the issue of bonds of the City of New York, with the proceeds of the sale of which to continue the work of construction of the Museum Building, according to the plans and specifications prepared by the architects of the building and as recommended by the Board of Trustees and Council of the Institute.



FRONT ELEVATION OF THE NORTHERN PORTICO AND VESTIBULE OF THE  
MUSEUM BUILDING (COMPRISING THE SECOND  
SECTION TO BE ERECTED).



SECTION THROUGH THE CENTRAL VESTIBULE OF THE NORTHERN PORTION  
OF THE MUSEUM BUILDING (COMPRISING THE SECOND  
SECTION TO BE ERECTED).



## THE ART BUILDING.

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In the Art Building, 172 and 174 Montague street, a large number of the lectures, class exercises and art exhibitions are held under the joint auspices of the various Art Departments of the Institute and the Brooklyn Art Association. The Art Building is owned by a corporation known as the Brooklyn Art Association, and is valued at upwards of \$140,000. The Art Association is incorporated to promote the study of Art by courses of instruction in drawing, painting, modeling, and designing, by courses of lectures on Art subjects, by loan exhibitions of works of Art, and by Art collections and a Library. The Association is a stock corporation, and about two-thirds of the stock is owned by the Brooklyn Institute of Arts and Sciences, the shares of stock having been given to the Institute, for the most part, in exchange for Life Membership Certificates in the Institute.

The building contains a large and beautiful Art Gallery, 66x47 feet, opening by folding doors into the Academy of Music; a smaller gallery, 23x18 feet; three studio rooms, occupied by classes in the Evening Art School; a lecture room, and three class rooms. The building is 50x100 feet on the ground, and four stories and basement in height.

A majority of the lectures on Art subjects before the Institute are given in the Art Building in conjunction with the Brooklyn Art Association, and the Evening Art Classes are all held in this building.

## THE BEDFORD PARK BUILDING.

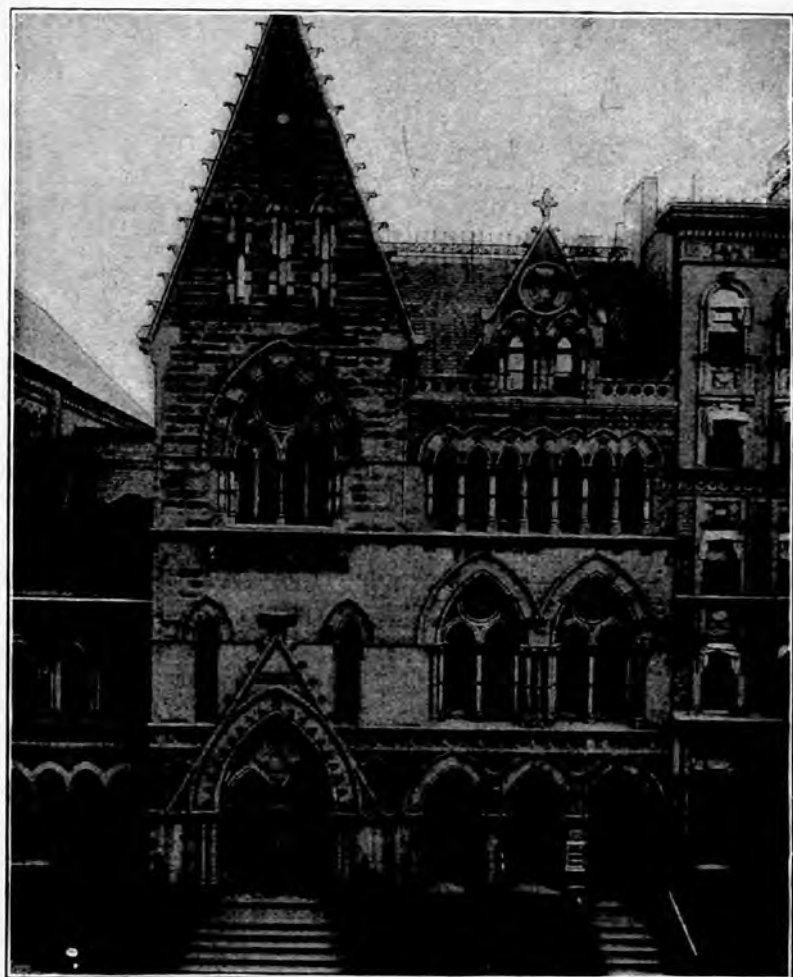
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During the summer of 1893 the Committee on Scientific Museum, Mr. EUGENE G. BLACKFORD, Chairman, leased, under the authority of the Board of Trustees, from the Hon. GEORGE V. BROWER, Park Commissioner of the City of Brooklyn, the large building situated in Bedford Park, between Prospect and Park places, facing Brooklyn avenue, in the Twenty-fourth Ward of the city, at a nominal rent, and for a term of years, or until the Museum Building in the Institute Park shall have been completed.

The Bedford Park Building comprises two stories and a basement, 50x70 feet on the ground, and contains a large number of rooms adapted to the exhibition of the collections of the Scientific Departments. These rooms were apportioned to the several Departments having collections, on recommendation of the Council, by the Board of Trustees.

On the first floor, the two large rooms on the west side were assigned to the Departments of Zoology and Entomology; the two rooms in the north wing, to the Department of Mineralogy; the two rooms on the east side, to the Departments of Archæology and Geology, respectively; and the three rooms in the south wing, to the Department of Geography. On the second floor, two rooms were assigned, on the west side, to the Department of Botany; two rooms on the east, to the Library and the Department of Pedagogy, and two rooms on the south, to the Departments of Physics, Chemistry, and Microscopy.

During the summer and autumn of 1893 the several Departments were busy in arranging their collections in the rooms assigned them. The Department of Geography has



THE ART BUILDING, 172-174 MONTAGUE STREET.



THE CHILDREN'S MUSEUM, BEDFORD PARK, BROOKLYN AVENUE.



so placed its large and valuable collection of maps, reliefs, globes, atlases and reference books in geography, that any one of the 1,500 items in the catalogue of the collection may be easily obtained for reference or study. A large number of the maps have been attached to rollers, that are hung in racks over the entire ceiling of the largest of the exhibition rooms. These maps are so numbered and catalogued that a visitor may readily pull any one of them desired into position for study. The Department of Entomology has placed the cases containing the collection of the late BERTHOLD NEUMOEGEN, so that any portion of the collection may be easily consulted. The CALVERLEY collection of Lepidoptera has also been placed in cases. The remaining Entomological collections have not yet been arranged for exhibition purposes.

The Department of Zoology has brought together a large collection in Conchology, presented to the City of Brooklyn by the late CLAUDIUS B. NICHOLS; the collection of birds, made by the late Dr. ATEN, of Brooklyn; the collections of coral, presented by Prof. FRANKLIN W. HOOPER; the BRAINERD collection of birds, presented by the Misses BRAINERD, of Brooklyn; a collection of fishes and reptiles, presented by Mr. EUGENE G. BLACKFORD; a collection of skeletons of vertebrates, presented by Prof. FRANKLIN W. HOOPER, together with other collections that have been long in the possession of the Institute. The rooms of the Department of Zoology are particularly attractive to students of Natural History, and a special effort has been made to encourage the study of the local fauna. A collection of shells of Long Island has been placed in a case by itself. The section on Ornithology of the Department of Zoology has made several valuable additions to the collection, and Mr. ARTHUR H. HOWELL has deposited his collection in the Museum Building for temporary exhibition.

The Department of Mineralogy has placed on exhibition the BRAUN collection of Long Island rocks and minerals,

the old Institute collection of minerals and rocks, the DANIEL S. MARTIN collection of minerals and rocks of Manhattan Island, the collections recently presented by Prof. FRANKLIN W. HOOPER, the HOLDEN collection of minerals, the minerals recently presented by Mr. GEORGE H. ENGLISH, and a considerable number of specimens received by donation and purchase during the year. Several members of the Department of Mineralogy have made valuable additions to the collections during the past year.

The Geological Department has placed on exhibition the following collections: (1) A series of rocks representing the geology of Long Island; (2) a series of igneous rocks loaned by the PRATT INSTITUTE; (3) the DANIEL S. MARTIN collection of fossils, and (4) the collection owned by the INSTITUTE previous to the destruction of its building on Washington street. The Archæological collections have been placed on exhibition; they comprise a collection of Swiss Lake Dwelling relics and a collection of Central American Antiquities.

The Department of Botany has arranged in cases, specially constructed to hold its Herbarium, the CALVERLEY collection of flowering plants, the E. S. MILLER collection of the plants of Long Island, the collections made by the Department of Botany, and the large collections recently received from the estate of the late Rev. CHARLES H. HALL, D.D., LL.D. The Department of Pedagogy has brought together a considerable library of pedagogical literature, and in its rooms may be found about 3,000 volumes of works that may be used for reference by those who visit the Museum Building. In the room assigned to the Departments of Chemistry, Physics, and Microscopy, the apparatus and collections of these Departments have been placed in cases.

The library of the late Dr. FREDERICK A. FARLEY, presented to the Institute by generous and public-spirited citizens of Brooklyn, in June, 1895, has been placed in cases in the broad hall on the first floor of the Building. This

library, to be used only for reference, will be placed in the new Museum Building in an alcove by itself, and will be known as the **FREDERICK A. FARLEY** Library. Each department having collections in the Building has also provided itself with a series of text-books and reference books relating to the science which it represents. The library of the Department of Entomology is large and particularly valuable.

During the past year the Building has been open each week day to those who wished to make a study of some portion of the collections. During the coming year it is expected that the Building will be open to the public daily.

Portions of the collections of the several Departments have been transferred to the new Museum of Arts and Sciences on the Eastern Parkway, thereby giving room for the exhibition of collections that have been in storage awaiting room for their proper exhibition, and also room for the arrangement of portions of the Library for reference.

### THE FRANK SHERMAN BENSON COLLECTION OF GREEK COINS.

Mr. **FRANK SHERMAN BENSON**, Life Member of the Institute, and member of the Executive Committee of the Department of Archæology, has placed on Loan Exhibition his large, representative and valuable collection of Greek Coins collected by him during a series of years and containing many rare and beautiful examples of Greek Art. The collection has been arranged in two cases specially made to contain it while on exhibition at the Museum, is accurately labeled and is in the Great Hall of Greek Sculpture on the main floor of the Museum Building.

## TREASURER'S ANNUAL REPORT.

The Annual Report of the Treasurer of the Institute, the HON. WILLIAM B. DAVENPORT, covers the current receipts and expenses of the Institute exclusive of the Museum accounts for the year ending May 1, 1899. A summary of the report is as follows :

### RECEIPTS.

Cash on hand May 1, 1898 .....	\$5,106.01
Received for General Fund .....	10,060.83
Received for Associate Fund.....	70,800.25
Investments.....	4,000.00
Received for Bills Payable .....	7,000.00
Received for Special Subscriptions .....	12,000.77
Total .....	108,967.86

### PAYMENTS.

Salaries, Rents, Lectures; General Fund.....	8,182.36
Expenses of Departments, Lectures, Rents, Salaries, Con- certs, Readings, Printing, Postage, etc.; Associate Fund.....	72,048.88
Bills Payable.....	4,000.00
Investments .....	6,000.00
Paid for Museum Collections, Casts, etc .....	13,130.16
Cash on hand May 1, 1899.....	5,606.46
Total .....	\$108,967.86

The Secretary and Director submitted annual reports on the work and needs of the Institute, large portions of which are included in the foregoing accounts of the work of the year.



A LIST OF THE PRINCIPAL DONATIONS  
TO THE INSTITUTE DURING THE  
YEAR 1898-9.

From Mr. A. AUGUSTUS HEALY, President of the Board of Trustees of the Institute, a colored majolica lunette, by GIOVANNI DELLA ROBBIA, illustrating THE RESURRECTION OF CHRIST, made about the year 1520 and brought from the Antinori Villa, near Florence, by President HEALY, through special permission granted by the Italian Government.

From Mr. FRANK S. JONES, Member of the Board of Trustees, \$10,000, presented to the Institute, and to be used by the Institute in the purchase of the BERTHOLD NEUMOEGEN Collection of Lepidoptera, comprising about 45,000 specimens, 12,000 species and 1,100 type specimens.

From Mr. EDWARD L. GRAEF, Life Member of the Institute, his collection of Lepidoptera, comprising about 15,000 specimens, many rare species and several type specimens.

From Mr. WILLIAM T. EVANS, an oil portrait of WILLIAM CULLEN BRYANT, painted from life by the late WYATT EATON.

From Mr. CARLL H. DE SILVER, Member of the Board of Trustees, 80 large photographs representing geological and geographical formations in the western part of our country.

From Mr. JACOB DOLL, Museum Curator of Entomology, three cases containing specimens of Lepidoptera.

From Mr. P. ELBERT NOSTRAND, C. E., Life Member of the Institute, his collection of Lepidoptera, numbering about 3,000 specimens.

From Mr. GEORGE L. ENGLISH, several large, fine and valuable mineral specimens.

From Mrs. ANNA K. THAYER, of Yonkers, the J. C. KINGSLEY library of works on engineering and mathematics and collections in the departments of Geology, Mineralogy and Lithology.

From Mr. ROBERT A. PEAVEY, several species of mounted birds, as described in the Department of Zoölogy.

From Mr. A. A. HOPKINS, several volumes on Architecture and Fine Arts, as enumerated under the Department of Fine Arts.

These gifts, together with many others, are more fully described under the respective departments to which they belong.

## FORMS OF SUBSCRIPTION AND BEQUEST.

*I hereby subscribe to the Endowment Fund of the  
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of One Hundred Dollars as a Life Membership Fee in  
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*Signed,*.....

*Date,*..... *Address,*.....

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APPENDIX.

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CHARTER

OF

THE BROOKLYN INSTITUTE OF  
ARTS AND SCIENCES.

INCORPORATED APRIL 23, 1890.

# THE CHARTER.

CHAPTER 172, LAWS OF 1890.

An Act to incorporate the Brooklyn Institute of Arts and Sciences, and to authorize the Brooklyn Institute to assign and convey its property thereto.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. Lyman Abbott, Abraham Abraham, John P. Adams, Truman J. Backus, Andrew D. Baird, Charles R. Baker, Richard S. Barnes, Thomas T. Barr, Henry Batterman, Edwin Beers, William Berri, Adolphus J. F. Behrends, Eugene G. Blackford, Samuel W. Boocock, David A. Boody, Richard R. Bowker, Joseph E. Brown, Walter S. Carter, John W. Chadwick, Leander T. Chamberlain, Henry T. Chapman, Jr. ; Christian T. Christensen, Alfred F. Cross, John Clafin, David H. Cochran, William J. Coombs, Edgar M. Cullen, William Dick, Carl H. De Silver, Samuel B. Duryea, Conrad V. Dykeman, Charles F. Erhardt, Joseph Fahys, Robert Foster, Isaac H. Frothingham, Bernard Gallagher, William J. Gaynor, Howard Gibb, William Hamilton Gibson, Robinson Gill, John Good, Frederick A. Guild, Charles H. Hall, Theodore A. Havemeyer, William H. Hazzard, A. Augustus Healy, Joseph C. Hendrix, Henry Hentz, Warren E. Hill, Cornelius N. Hoagland, Joseph C. Hoagland, Franklin W. Hooper, Edward I. Horsman, David H. Houghtaling, Mark Hoyt, Henry C. Hulbert, William H. Husted, William M. Ingraham, Darwin R. James, John S. James, James Jourdan, William B. Kendall, Joseph F. Knapp, William Lamb, John Loughran, William B. Leonard, Elias Lewis, Jr. ; Edward

H. Litchfield, Arthur Littlejohn, Gustav Loeser, Abbott A. Low, Seth Low, David C. Lyall, Edward H. R. Lyman, William H. Lyon, William H. Male, Henry W. Maxwell, J. Rogers Maxwell, William H. Maxwell, Moses May, James McMahan, Peter H. McNulty, Samuel M. Meeker, Richard R. Meredith, Edward Merritt, Edward L. Molineaux, Leonard Moody, Charles A. Moore, Henry P. Morgan, William H. Murtha, Albro J. Newton, William H. Nichols, James S. Noyes, George M. Olcott, Alexander E. Orr, Andrew Otterson, Edwin Packard, Lowell M. Palmer, Henry L. Palmer, Calvin Patterson, Albert C. Perkins, Bernard Peters, Henry E. Pierrepont, Norton Q. Pope, William Potts, Alfred J. Pouch, Peter W. Ray, Rossiter W. Raymond, Ripley Ropes, Charles Rumpf, William Cary Sanger, Charles A. Schieren, Frederick A. Schroeder, John E. Searles, Jr.; Edward A. Seccomb, Thomas G. Shearman, Henry K. Sheldon, Edward M. Shepard, Crawford C. Smith, Bryan H. Smith, Millard F. Smith, Theodore E. Smith, S. Warren Sneden, Edward R. Squibb, Frank Squier, Thomas E. Stillman, Richard S. Storrs, James S. T. Stranahan, William H. Taylor, John Truslow, Joshua M. Van Cott, William H. Wallace, Adam D. Wheelock, Charles E. West, William R. Webster, George W. White, Stephen V. White, Cornelius D. Wood, Charles L. Woodbridge, Robert B. Woodward, John B. Woodward, William Ziegler, and such other persons as are now or may hereafter be associated with them and their successors, are hereby created a body corporate under the name of THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES, to be located in the city of Brooklyn.

SEC. 2. The purposes of said Corporation shall be the establishment and maintenance of museums and libraries of art and science, the encouragement of the study of the arts and sciences, and their application to the practical wants of man, the advancement of knowledge in science and art, and in general to provide the means for popular instruction and enjoyment through its collections, libraries, and lectures.

SEC. 3. The museums and libraries of said Corporation shall be open and free to the public and private schools of said city at all reasonable times, and open to the general public on such terms of admission as shall be approved by the Mayor and Park Commissioner of said city.

SEC. 4. Said Corporation shall have power to make and adopt a constitution and by-laws for the government of the Corporation, and for the regulation of the membership of the said Institute of Arts and Sciences, and further, shall have power to make such rules and regulations as may be necessary for the safe-keeping and proper use of its property.

SEC. 5. Abraham Abraham, John P. Adams, Charles R. Baker, Thomas T. Barr, Henry Batterman, Edwin Beers, Adolphus J. F. Behrends, Eugene G. Blackford, David A. Boody, Richard R. Bowker, Leander T. Chamberlain, John Clafin, William J. Coombs, Carll H. De Silver, William Dick, Joseph Fahys, Robert Foster, Howard Gibb, John Good, Charles H. Hall, Joseph C. Hendrix, Joseph C. Hoagland, Franklin W. Hooper, David H. Houghtaling, Mark Hoyt, William H. Husted, John S. James, Joseph F. Knapp, John Loughran, Henry W. Maxwell, Moses May, James McMahan, Samuel M. Meeker, Leonard Moody, Charles A. Moore, William H. Nichols, George M. Olcott, Alexander E. Orr, William Potts, Charles Rumpf, William Cary Sanger, Charles A. Schieren, Frederick A. Schroeder, John E. Searles, Jr., Henry K. Sheldon, Theodore E. Smith, Thomas E. Stillman, Richard S. Storrs, Joshua M. Van Cott, John B. Woodward shall be, and hereby are declared to be, the Trustees of said Corporation, until their successors shall be elected, pursuant to such constitution and by-laws as the Corporation may adopt. Fifteen Trustees shall constitute a quorum for the transaction of business.

SEC. 6. Said Corporation may take and hold by purchase, grant, lease, gift, devise, or bequest real or personal property necessary or proper for the purposes of its incorporation, provided the annual income of all the property held or

owned by said corporation shall not exceed two hundred thousand dollars.

SEC. 7. Said Corporation shall possess the general powers and privileges, and shall be subject to the general restrictions and liabilities, prescribed in the third title of the eighteenth chapter of the first part of the revised statutes, and to the provisions of chapter three hundred and sixty of the laws of eighteen hundred and sixty relating to wills.

SEC. 8. The Brooklyn Institute and its Trustees and Board of Directors are hereby authorized to assign and convey to the Brooklyn Institute of Arts and Sciences all the property, real and personal, owned and held by it, and the said property, when so transferred to, shall vest in and be held and used by the said Institute of Arts and Sciences for the uses and purposes set forth in section two of chapter three hundred and forty-three of the laws of eighteen hundred and sixty-two in the following words: "The purposes of the said incorporation shall be the continuing of the library, collecting and forming a repository of books, maps, pictures, drawing apparatus, models of machinery, tools and implements generally, for enlarging the knowledge of literature, science and art, and thereby improving the conditions of mechanics, manufacturers, artisans and others." The said Institute of Arts and Sciences shall hold, invest, and use all trust funds so transferred to it in conformity with the trusts on which they were received and held by the Brooklyn Institute. When the transfer of its property as hereby authorized shall be completed, and an affidavit in verification thereby made by the President of the Board of Directors, and sworn to before any judge of the supreme court residing in the city of Brooklyn, shall be filed in the office of the Secretary of State, the corporate existence of the said Brooklyn Institute shall cease, and the several acts relating thereto shall be of no further effect.

SEC. 9. This act shall take effect immediately.

## AMENDMENT TO THE CHARTER.

CHAPTER 579, LAWS OF 1893.

An Act to amend section five of Chapter one hundred and seventy-two of the Laws of eighteen hundred and ninety, relating to the Brooklyn Institute of Arts and Sciences.

APPROVED by the Governor May 5, 1893. Passed ; three-fifths being present.

*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. Section five of Chapter one hundred and seventy-two of the Laws of eighteen hundred and ninety, entitled "An act to incorporate the Brooklyn Institute of Arts and Sciences, and to authorize the Brooklyn Institute to assign and convey its property thereto," is hereby amended by adding at the end of said section the words, the Mayor, Comptroller, and Park Commissioner of the City of Brooklyn shall be *ex-officio* members of the Board of Trustees of said corporation.

SEC. 2. All acts and parts of acts inconsistent with this act are hereby repealed.

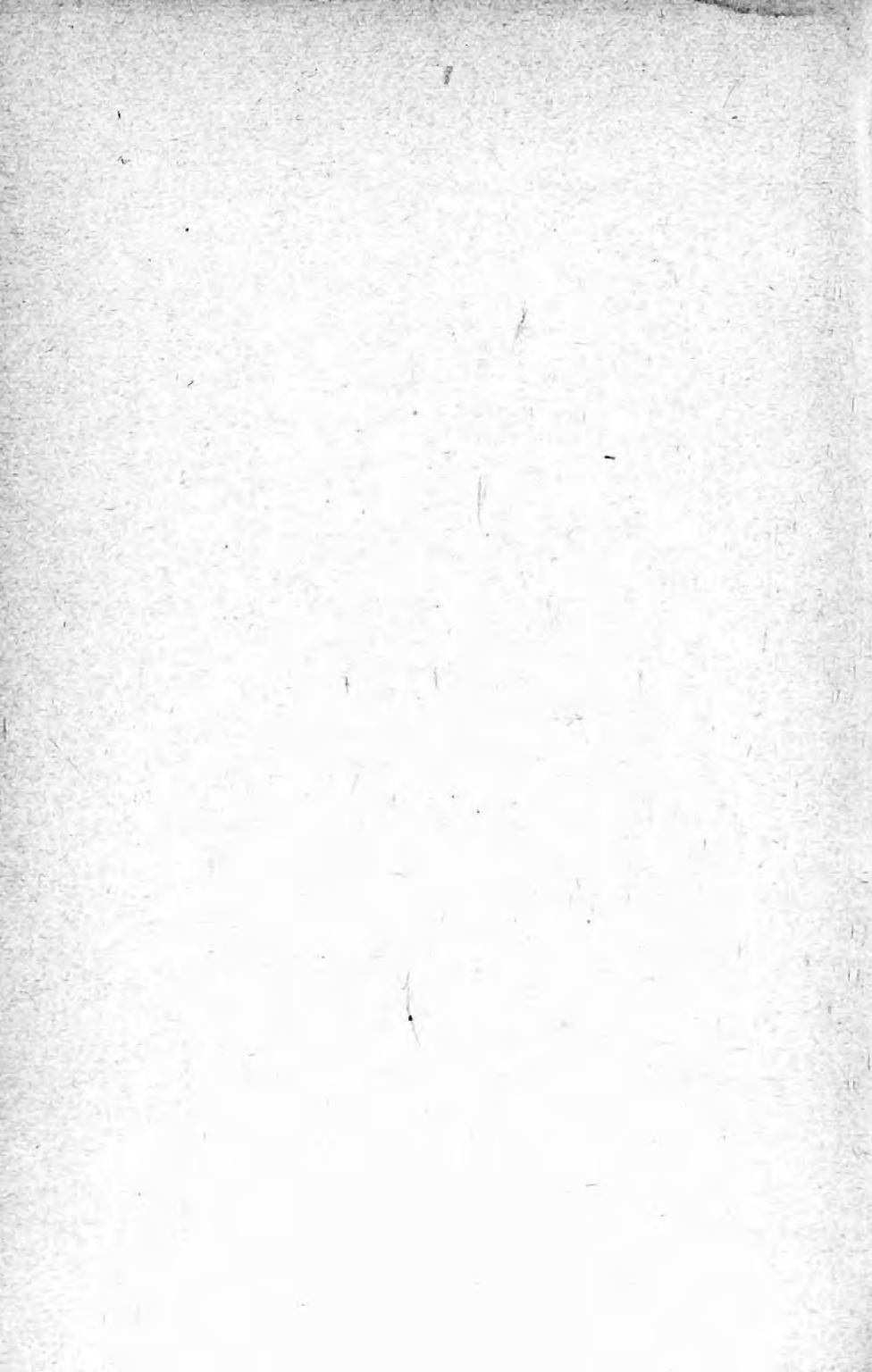
SEC. 3. This act shall take effect immediately.



BROOKLYN

BUSINESS

DIRECTORY





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BROOKLYN BUSINESS DIRECTORY.

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ESTABLISHED 1852.

Court St., corner of Montague,

Opposite City Hall, BROOKLYN.

**CAPITAL AND SURPLUS OVER \$1,000,000.**

GEORGE W. WHITE, President.

GEORGE W. CHAUNCEY, Vice-President.

CHARLES E. WHEELER, Cashier.

### DIRECTORS.

Samuel Sloan,  
Edward D. White,  
Daniel D. Whitney,  
Jacob Cole,

James Raymond,  
George W. Chauncey,  
Jacob T. E. Litchfield,  
George W. White,  
Judah B. Voorhees,

Daniel F. Fernald,  
William Baylis,  
John D. Snedeker,  
Charles E. Wheeler.

**ACCOUNTS OF ALL KINDS SOLICITED.**

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# KINGS COUNTY TRUST CO.

342, 344 and 346 Fulton Street, Brooklyn, N. Y.

**CAPITAL, \$500,000. SURPLUS, \$850,000.**

### OFFICERS.

JULIAN D. FAIRCHILD. - - - President  
WILLIAM HARKNESS, { - - - Vice-Presidents  
D. W. McWILLIAMS, {  
HERMON MORRIS, - - - Secretary  
THOMAS BLAKE, - - - Assistant Secretary  
GEORGE V. BROWER, - - - Counsel

### KINGS COUNTY TRUST COMPANY

Acts as Executor, Administrator, Trustee, Guardian, Receiver, Committee of the Insane, Transfer Agent, and Registrar for Corporations.  
Designated by the general terms of the Supreme and City Courts as a Legal Depository for Estate Funds.  
Receives Deposits subject to Check at sight, and allows Interest on Daily Balances. Checks pass through the New York Clearing House.  
Issues Interest-Bearing Certificates of Deposit.  
Collects Rents, Coupons, and Interest, and Manages Property of Non-Residents.  
Secures Letters of Credit and Drafts Payable in any Part of the World.  
Keeps Wills Free of Charge.