Digitized by Google

Original from HARVARD UNIVERSITY

THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES 1906-1907



Biological Laboratory

Cold Spring Harbor, L. I.

(30 Miles from Brooklyn)

A new Dormitory (for women) and new laboratories have been constructed for the use of summer students, and are fully furnished \Rightarrow \Rightarrow \Rightarrow

For Circulars and information address

THE BROOKLYN INSTITUTE, 502 Fullon Street, Brooklyn, N. Y.

FINE BOOKLETS

For Schools and Educational Institutions

E have absolutely the best selection of types and papers of any printing office in this city. Our facilities are well known, and we are ready at any time to quote reasonable prices on any kind of printing. A call for 6200 Main will bring our representative.

WE AIM TO GIVE GOOD SERVICE

BROOKLYN EAGLE PRINTING OFFICE WASHINGTON AND JOHNSON STS., BROOKLYN

Digitized by Google

THE

NINETEENTH YEAR BOOK

OF

THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES

FOUNDED 1824 CHARTERED IN 1824; RECHARTERED IN 1843 AND 1862 THE PRESENT CHARTER GRANTED IN 1890

1906-1907

CONTAINING

THE NAMES OF THE OFFICERS, COPIES OF THE CONSTITUTION AND BY-LAWS, A BRIEF HISTORY OF THE INSTITUTE, AN ACCOUNT OF THE WORK OF 1906-1907, AND A COPY OF THE LAWS RELATING SPECIFICALLY TO THE CORPORATION

"For the People by the People"

BROOKLYN:
PUBLISHED BY THE INSTITUTE
1907



Generated on 2014-10-21 15:13 GMT / http://hdl.handle.net/2027/hvd.32044082531914 Public Domain, Google-digitized / http://www.hathitrust.org/access_use#pd-google

THE BIOLOGICAL LABORATORY

(Located at Cold Spring Harbor, L. I.)

EIGHTEENTH SEASON.

JULY AND AUGUST, 1907.

BOARD OF MANAGERS

WILLIAM J. MATHESON	President
HENRY F. NOYES	.Vice-President
Prof. Franklin W. Hooper, M.A	Secretary
Prof. CHARLES B. DAVENPORT, Ph.D	Director

A. Augustus Healy
Oliver L. Jones, M.D.
Hon. David A. Boody
Hon. George V. Brower
Col. Robert B. Woodward
Louis C. Tiffany
Walter B. James, M.D.
Robert W. DeForest
C. W. Wetmore
Walter Jennings
Hermon C. Bumpus, Ph.D.
Prof. Edmund B. Wilson, Ph.D.
Frederic A. Lucas
Mrs. Eugene G. Blackford
Mrs. O. L. Jones

CLARENCE W. SEAMANS
Judge Addison Brown
Hon. William J. Coombs
Prof. John Mickleborough, Ph.D.
William Stratford, Ph.D.
Lowell M. Palmer
Frank S. Jones
John H. J. Stewart
George C. Brackett
Colgate Hoyt
A. P. Montant
August Heckscher
Nicholas Murray Butler, LL.D.
Alfred G. Mayer, D.Sc.
Edward Thompson

THE BOARD OF INSTRUCTION

- CHARLES BENEDICT DAVENPORT, Ph.D., Director of the Station for Experimental Evolution (Carnegie Institution of Washington), Director of the Laboratory.
- Duncan Starr Johnson, Ph.D., Assistant Professor of Botany, Johns Hopkins University. In charge of Cryptogamic Botany.
- HENRY SHERRING PRATT, Ph.D., Associate Professor of Zoölogy, Haverford College. In charge of Comparative Anatomy.
- AARON L. TREADWELL, Ph.D., Professor of Biology, Vassar College. In charge of Embryology.
- Mrs. Gertrude Crotty Davenport, B.Sc., Past Instructor in Zoölogy, Kansas State University. In charge of Microscopic Methods.
- E. N. Transeau, Ph.D., Station for Experimental Evolution. In charge of Plant Ecology.



- ALICE HALL WALTER. In charge of Bird Study.
- WILLIAM M. WHEELER, Ph.D., American Museum of Natural History. Lecturer in Entomology.
- Daniel S. Hartline, M.A., Head of Department of Biology, State Normal School, Bloomsburg, Pa. Associate in Comparative Anatomy.
- H. E. Walter, Ph.D., Assistant Professor of Comparative Anatomy.

 Associate in Zoölogy.
- HARLAN H. YORK, M.A., Instructor in Botany, University of Texas.

 Associate in Botany.
- HARRY ERNEST JORDAN, Ph.D., Adjunct Professor of Biology, University of Virginia. Assistant in Embryology.
- WILLIAM S. COOPER, B.Sc., Graduate Student at Johns Hopkins University. Assistant in Plant Ecology.

Persons, Other Than Instructors, Engaged Primarily in Research.

- ELIZABETH BANGS BRYANT, Assistant at Museum of Comparative Zoölogy, 1200 Commonwealth Avenue, Allston, Mass.
- ELLIOT R. DOWNING, Ph.D. (Chicago), Professor of Biology Michigan State Normal School, Marquette, Michigan. Zoölogy.
- Louis Israel Dublin, Ph.D. (Columbia University), Instructor in College of City of New York, 100 Convent Avenue, New York, N. Y. Cytology.
- HENRY Fox, Ph.D. (Pennsylvania), Teacher, 4440 N. 19th Street, Philadelphia, Pa. Zoölogy.
- Ludwig von Graff, Dr. Phil., Hofrat Professor of Zoölogy, University, Gratz, Austria.
- ROBERT W. HALL, Ph.D., Harvard, Professor of Biology, Lehigh University, Lehigh, Pa.
- CHARLES MORRILL, M.A. (Columbia University), Assistant in Zoölogy at Columbia University.

STUDENTS IN THE SEVERAL COURSES.

- WILLIAM HENRY BROWN, B.Sc. (Richmond, Va.), Student at Johns Hopkins University. Zoölogy 3.
- Francis Randolph Crawford, B.A. (Washington and Lee University), Student at Johns Hopkins Medical School. Zoölogy 3.
- Anna Emma Everson, Vice Principal of Rye Neck High School, Mamaroneck, N. Y. Botany 1.
- CLARA KENNEDY HICKS, B.Sc. (Mount Holyoke), Teacher, 400 Manhattan Avenue, New York, Zoölogy 3.



- Frances Powell Hooper, B.Sc. (University of Mississippi), Teacher, Columbus, Mississippi. Botany 2.
- Francis Thomas Hughes, B.A. and M.A. (St. Francis Xavier, New York City), Teacher in High School, 392 First Street, Brooklyn, N. Y. Zoölogy 2.
- KATHLEEN ELIZABETH HURTY, B.A. (Barnard), Teacher, 44 West 106th Street, New York City. Zoölogy 1.
- JOHN LOBBAN KABLE, Student at University of Virginia, Charlottesville, Va. Zoölogy 2.
- HARRY HAMILTON LAUGHLIN, M.S.D. (North Missouri State Normal), Kirksville, Missouri, Superintendent of Public Schools. Zoölogy 1.
- SARA EMMA LAY, B.A. (Barnard), 2137 Fifth Avenue, New York City. Zoölogy 1.
- GENEVIEVE MONSCH, B.Sc. (University of Chicago), Teacher of Biology, Louisville High School, 606 Floral Terrace, Louisville, Kentucky. *Botany* 1.
- HELEN LOUISE PRATT, Teacher, 909 Lafayette Street, Bridgeport, Connecticut. Zoölogy 1.
- MARGARET PUTNAM, B.A. (Bryn Mawr), 250 West 94th Street, New York, N. Y. Botany 2.
- HOWARD RAYMOND RARIG, Teacher, State Normal School, Bloomsburg, Pa. Botany 1.
- HELEN BROOKS SHRIVER, B.A. (The Woman's College of Baltimore), Instructor in Biology, Trenton High School, 531 Hamilton Avenue, Trenton, N. J. Zoölogy 1.
- CHARLES ALBERT SHULL, B.Sc. (University of Chicago), Assistant Professor of Biology, Kentucky University, Lexington, Kentucky. Zoölogy 3.
- IDA SITLER, Teacher, State Normal School, Bloomsburg, Pa. Botany 2.
- Doris Jeanette Spier, Student, 474 West 146th Street, New York City. Botany 2.
- George Francis Sykes, Student, Brown University. Zoölogy 1.
- ALENE WEST, Student, Columbus, Mississippi. Zoölogy 1.
- ISABEL WHEELER, B.A. (Vassar College), Teacher, Toledo High School, 11 The Loiston, Toledo, Ohio. Zoölogy 3.
- CHARLOTTE SPENCER YOUNG, B.A. (Cornell University), Teacher, 810 Flatbush Avenue, Brooklyn, N. Y. Botany 1.



Generated on 2014-10-21 15:14 GMT / http://hdl.handle.net/2027/hvd.32044082531914 Public Domain, Google-digitized / http://www.hathitrust.org/access_use#pd-google

Courses of Instruction

ZOÖLOGY

- 1—"High School Zoölogy," under Dr. C. B. DAVEN-PORT, Dr. H. E. WALTER and Dr. W. M. WHEELER.
- 1a—Bird Study, under Mrs. WALTER.
- 2—"Comparative Anatomy," under Dr. H. S. Pratt and Mr. Hartline.
- 3—"Embryology," under Dr. A. L. TREADWELL and Mr. JORDAN.
- 4—"Animal Bionomics and Variation," under Dr. C. B. DAVENPORT.

BOTANY

- I—"Cryptogamic Botany," under Dr. D. S. Johnson and Mr. York.
- 2—"Ecology," under Dr. E. N. TRANSEAU and Mr. COOPER.

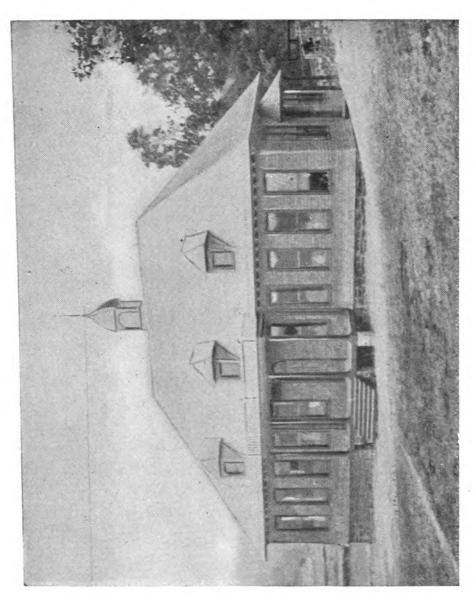
MICROSCOPIC METHODS

1-A course, under Mrs. GERTRUDE C. DAVENPORT.

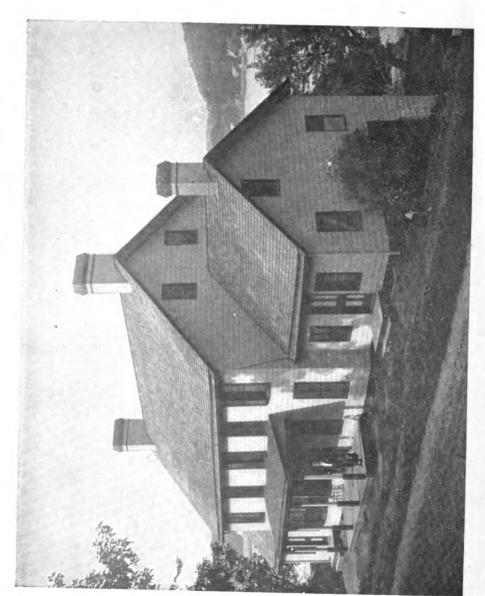
BIOLOGICAL CLUB

This Club has been formed for the presentation of the results of researches and for reviewing of recent biological literature. Recently addresses have been given by the following visiting naturalists:

Professor M. A. BIGELOW, Teachers College, New York; Professor C. L. Bristol, New York University; Professor H. W. Conn, Wesleyan University; Professor Ulric Dahlgren, Princeton University; Professor A. Davison, Lafayette College; Professor Bashford Dean, Columbia University; Mr. James Emerton, Boston; Dr. H. H. Field, Concilium Bibliographicum, Zürich; Professor Graham Lusk, New York University Medical School; Dr. A. G. Mayer, Carnegie Institution of Washington, D. C.; Dr. D. T. MacDougal, Carnegie Institution of Washing-



THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR, 72x36 FEET.



THE DINING HALL AT THE BIOLOGICAL LABORATORY.

Digitized by Google

ton, D. C.; Professor James G. Needham, Lake Forest University; Professor G. H. Parker, Harvard University; Professor Jacob Reighard, University of Michigan; Professor Edward L. Thorndike, Columbia University; Mr. George C. Whipple, Brooklyn; President R. S. Woodward, Carnegie Institution of Washington.

Publications

The following publications, based in whole or in part on work done or material collected at Cold Spring Harbor, have been published since last year's report:

EQUIPMENT

Through the establishment of the Station for Experimental Evolution by the Carnegie Institution of Washington on the property adjacent to the Laboratory and under the charge of the Director of the Laboratory, the scientific importance of the community has been augmented. is maintained throughout the year a staff of workers devoted exclusively to experimental investigations in biology, including the breeding of animals and plants. The Station possesses a valuable reference library and collections accessible to investigators at the Laboratory. Arrangements have been perfected by which research may be done at the Laboratory at almost any time of the year. During the present year a large dormitory built of concrete has been completed, the gift of Mrs. Eugene G. Blackford as a memorial to her late husband.

LIBRARY

The Library now receives regularly the publications of several divisions of the Department of Agriculture and the Reports of the New York State Museum. Through an arrangement recently entered into with the Institute Library, the Laboratory becomes a branch station of that Library, and thus acquires a service of great value.



Generated on 2014-10-21 15:15 GMT / http://hdl.handle.net/2027/hvd.32044082531914 Public Domain, Google-digitized / http://www.hathitrust.org/access_use#pd-google

Workers at the Laboratory have access also to the library of the Carnegie Institution Station.

CONTRIBUTIONS FOR ORIGINAL RESEARCH AND EQUIPMENT

Subscriptions for the support of the Laboratory during the season of 1907 were made as follows:

WILLIAM J. MATHESON	\$100.00
HENRY F. NOYES	100.00
Walter Jennings	100.00
Frank S. Jones	100.00
WALTER B. JAMES, M.D	
ROBERT B. WOODWARD	
CLARENCE W. SEAMANS	100.00
WAWEPEX SOCIETY	30.00
Mrs. Eugene G. Blackford	100.00
Edward Thompson	25.00
Louis C. Tiffany	100.00

THE EUGENE G. BLACKFORD MEMORIAL HALL.

In the spring of 1906 Mrs. Eugene G. Blackford made known to the officers and members of the Board of Managers of the Biological Laboratory of the Institute, located at Cold Spring Harbor, and through that Board to the Board of Trustees of the Institute, her desire to erect a substantial building on the lands of the Laboratory, the purpose of which should be to provide a comfortable home for the members of the faculty of the school and their families, and the young women who are pursuing courses of instruction or scientific research at the Laboratory.

Mrs. Blackford's proposition was very cordially received by the Board of Managers of the Laboratory and the Board of Trustees of the Institute.

An architect was appointed to prepare plans and specifications, and under the auspices of the officers of the Board of Managers, the building was planned, erected and furnished, at an expense of approximately \$25,000.

The building is located on the highest part of the Laboratory grounds, overlooking Cold Spring Harbor and the ranges of hills on either side. It is of reinforced concrete, two stories and a basement in height, approximately 120 feet in length by 38 feet in width, with a portico over the entrance on the western façade, and on the eastern façade a veranda from which there is a splendid view of the har-The first or main floor contains a large living room, a vestibule and hallway, a dining room that will accommodate 120 persons, and a serving room. The second or upper floor contains bedrooms accommodating 30 persons. The basement contains a kitchen, laundry, store-rooms, bath-rooms and servants' quarters. Being erected of reinforced concrete, the building is practically a monolith. is fire-proof and very simple and artistic in appearance.

On June 1, 1907, the building was dedicated by appro-

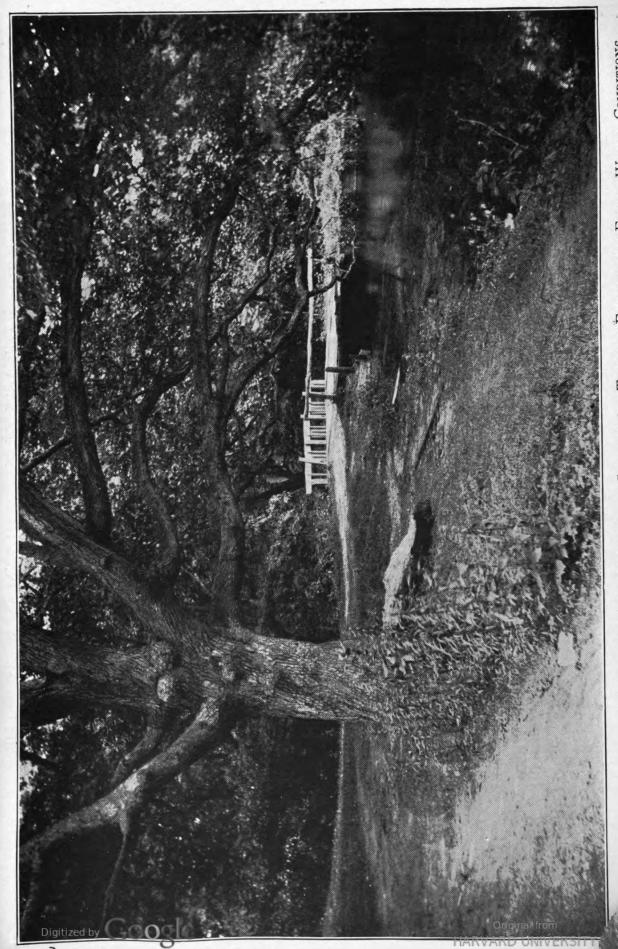


Generated on 2014-10-21 15:16 GMT / http://hdl.handle.net/2027/hvd.32044082531914 Public Domain, Google-digitized / http://www.hathitrust.org/access_use#pd-google

priate exercises and was presented to the Brooklyn Institute of Arts and Sciences by Mrs. Blackford as a memorial to her husband, Eugene G. Blackford, who was President of the Board of Managers of the Biological Laboratory from the date of the founding of the Laboratory in 1890 until the time of his decease in 1905.

The building will be a very serviceable one to the Laboratory, and its erection and presentation to the Institute will have the effect of making permanent the Biological Laboratory as a part of the Institute. This memorial is an especially fitting one, inasmuch as it was Mr. Blackford who first planned to establish a New York State Fish Hatchery at Cold Spring Harbor. The hatchery was established and was successfully carried on for many years while Mr. Blackford was President of the State Fish Commission. Mr. Blackford also joined with others in urging the establishment of the Station for Experimental Evolution at Cold Spring Harbor by the Carnegie Institution, which was dedicated in 1904. Mr. Blackford was also interested especially in the development of the scientific departments of the Institute and its Museum, and of the Children's Museum in Bedford Park. His very great services to the Institute are now, in a large measure, continued by Mrs. Blackford in the erection of this memorial building.

Three daughters, Miss Harriet E. Blackford, Mrs. E. Ward Olney and Mrs. Wallace E. Blackford, joined with Mrs. Blackford in furnishing the building in a very complete and substantial way.



VIEW OF ROAD OVER THE DAM AT THE SECOND LAKE, TO ILLUSTRATE TYPICAL FOREST AND FRESH WATER CONDITIONS. GREAT OAK IN FOREGROUND.

Generated on 2014-10-21 15:17 GMT / http://hdl.handle.net/2027/hvd.32044082531914 Public Domain, Google-digitized / http://www.hathitrust.org/access_use#pd-google