

THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES  
July 1913, to July 1914

**THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES**

**1913-1914**

THE  
Twenty-sixth Year Book

OF

THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES

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1913-1914

CONTAINING

THE NAMES OF THE OFFICERS, COPIES OF THE CON-  
STITUTION AND BY-LAWS, A SYNOPSIS OF THE  
INSTITUTE'S HISTORY, AN ACCOUNT OF THE  
WORK OF 1913-1914, AND A LIST OF  
LAWS RELATING SPECIFICALLY  
TO THE CORPORATION

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*"For the People, by the People"*

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BROOKLYN:

PUBLISHED BY THE INSTITUTE

1914



# THE BIOLOGICAL LABORATORY

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

TWENTY-FIFTH SEASON

JULY AND AUGUST, 1914

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### THE BOARD OF INSTRUCTION

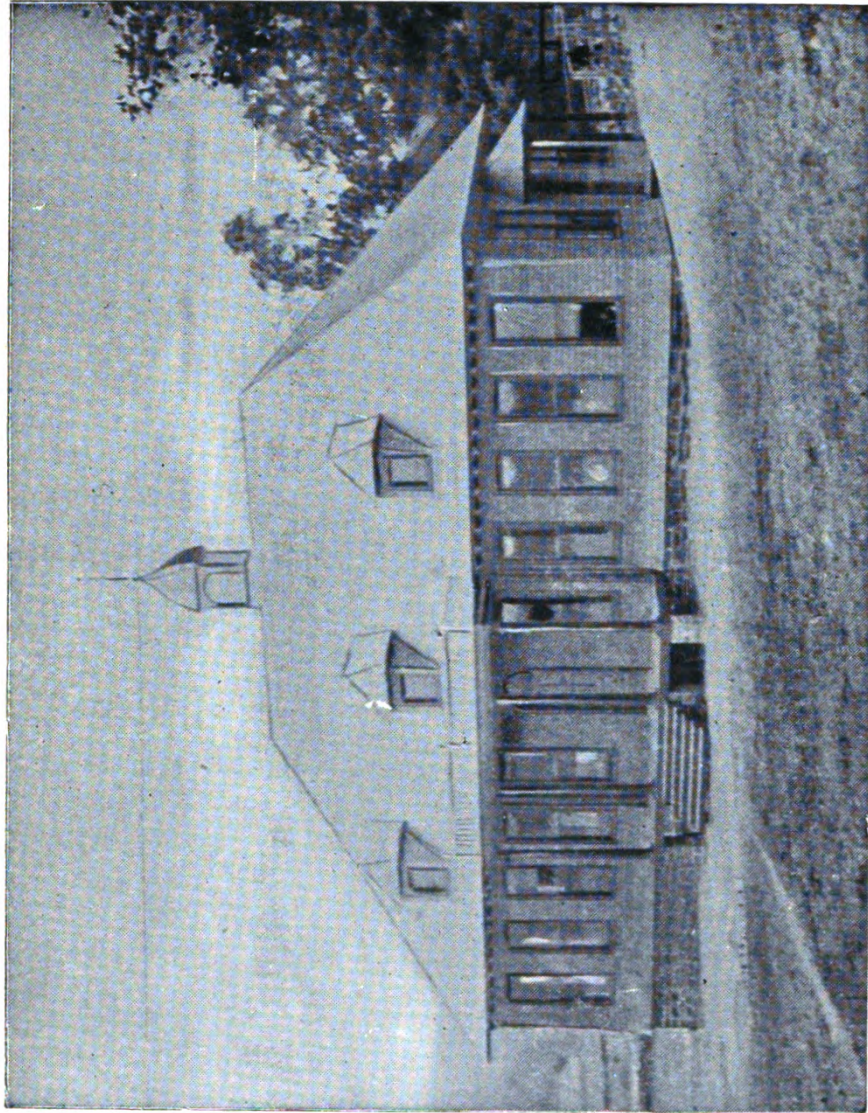
CHARLES B. DAVENPORT, Ph.D., Carnegie Institution of Washington,  
*Director of the Laboratory.*

†HENRY SPERING PRATT, Ph.D., Haverford College. *In charge of  
Comparative Anatomy.*

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Field Zoology.*

\* Deceased.

† On leave of absence.



THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR

- Mrs. ALICE HALL WALTER. *In charge of Bird Study.*
- HARLAN H. YORK, Ph.D., Brown University. *In charge of Cryptogamic Botany.*
- HARRY HAMILTON LAUGHLIN, B.S., Eugenics Record Office. *In charge of Training Course for Field Workers in Eugenics.*
- JOHN W. HARSHBERGER, Ph.D., University of Pennsylvania. *In charge of Plant Geography and Ecology.*
- SIDNEY I. KORNHAUSER, Ph.D., Northwestern University. *Instructor in Field Entomology.*
- W. E. MANEVAL, Ph.D., Randolph-Macon College. *Associate in Cryptogamic Botany.*
- DAVID D. WHITNEY, Ph.D., Wesleyan University. *In charge of Comparative Anatomy.*
- HAROLD MORTON HINE, B.S., Hartford High School. *Assistant in Comparative Anatomy.*
- CLYDE E. EHINGER, M.D., West Chester Normal School. *Assistant in Bird Study.*
- GEORGE F. SYKES, A.M., Oregon Agricultural College. *Assistant in Field Zoology.*

PERSONS, OTHER THAN INSTRUCTORS, ENGAGED PRIMARILY IN  
RESEARCH

- CHARLES HARLAN ABBOTT, A.M. (Brown University), Antrim, N. H. Graduate student at Brown University. *Reactions of Isopods.*
- JOSHUA LONGSTRETH BAILY, Jr., A. M. (Haverford College), Haverford, Pa. *Anatomy of Lucopina crenulata, Gray.*
- CALVIN BLACKMAN BRIDGES, B.S. (Columbia University), 528 W. 123d Street, New York, N. Y. Fellow in zoology. *Genetics work with drosophila.*
- ANNIE PARKER HENCHMAN, Jaffrey, N. H. *Pectinatella.*
- FLORENCE HULTON, M.S. (University of Pennsylvania), 2853 Boudinot Street, Philadelphia, Pa. Teacher in William Penn High School for Girls. *The effect of Gonad extract on the Production of Color.*
- RALPH GIBNEY HURLIN, A.M. (Brown University), Antrim, N. H. Student and assisting in biology. *Pigment of silkie fowl.*
- Prof. J. E. PEABODY, Scarsdale, N. Y. Teacher in Morris High School. *Human physiology.*
- SHELLEY RAY SAFIR, A.M. (Columbia University), 1655 Washington Avenue, Bronx, New York, N. Y. Teacher of biology. *Fiddler Crabs.*

- BENJAMIN SCHWARTZ, A.M. (Columbia University), 1775 Fulton Avenue, New York, N. Y. Instructor in biology at the University of Arkansas. *Fiddler Crabs*.
- ELMER SHAFFER, 2137 North Sixth Street, Philadelphia, Pa. Student at Haverford College. *Trematods*.
- STELLA G. STREETER, A.M. (Columbia), 120 West 76th Street, New York, N. Y. *Botany*.
- MINNIE ELIZABETH WATSON, M.S. (University of Illinois), Oyster Bay, L. I. Graduate student at University of Illinois. *Crustacean parasites*.

## STUDENTS IN THE SEVERAL COURSES

- MARGARET BEEKMAN ABBOTT, A.B. (Mount Holyoke College), 413 West Front Street, Plainfield, N. J. Teacher at Miss Bennett's School, Millbrook, N. Y. *Eugenics*.
- ENID CAPWELL ALLEN, B.A. (Mount Holyoke College), 1415 Green Avenue, Racine, Wisconsin. Teacher at the N. Y. State Reformatory. *Eugenics*.
- EDITH SARAH ATWOOD, A.M. (Middlebury College), Pomfret, Vermont. Teacher. *Eugenics*.
- AMY BRAY BAKER (Boston University), Lancaster, N. H. Teacher of Biology in Portland, Maine. *Field Zoology*.
- HOWARD JAMES BANKER, Ph.D. (Columbia), Greencastle, Indiana. Teacher of biology. *Eugenics*.
- LAURA BANNING, Ph.B. (Syracuse University), 242 South Fourth Avenue, Mount Vernon, N. Y. Teacher of biology. *Field Zoology*.
- CATHERINE VIRGINIA BEERS, B.A. (Northwestern University), 700 Michigan Avenue, Evanston, Illinois. Graduate student. *Bird study*.
- WILLIAM CHARLES BOECK, Olivia, Minnesota. Student. *Field Zoology*.
- GERTRUDE IVES BRIDGES, 528 West 123d Street, New York, N. Y. *Short Bird Course*.
- EDWARD LEONARD CAUM, A.B. (Swarthmore College), Swarthmore, Pa. Graduate student. *Field Zoology*.
- ANNA MAY CLARK, A.M. (Columbia), 400 West 118th Street, New York, N. Y. Teacher at the New York Training School for Teachers. *Bird Study*.
- PAUL CRENSHAW COLONNA, Ashland, Virginia. Student. *Comparative Anatomy*.

- ELIZABETH TIERNEY FITZPATRICK, B.A. (Hunter College), 919 Ogden Avenue, Bronx, New York, N. Y. Teacher in Morris High School. *Field Zoology*.
- EDWARD MICHAELSON FRANKEL, B.S. (College of the City of New York). Student at Yale University. *Comparative Anatomy*.
- HENRY J. FRY, A.B. (Muhlenberg College), 224 West Mannheim Street, Germantown, Philadelphia, Pa. Student. *Bird Study*.
- MARJORIE FULSTOW, B.A. (Lake Erie College), 116 East Seminary Street, Norwalk, O. *Eugenics*.
- EDNA NEWMAN HAFER, A.B. (Wilson College), 242 Fifth Avenue, Chambersburg, Pa. Assistant in Department of Biology, at Wilson College. *Field Zoology*.
- AMOS HENRY HERSH, A.B. (Franklin and Marshall College), 561 South Lime Street, Lancaster, Pa. Laboratory Assistant. *Field Zoology*.
- ELIZABETH HORTON, 7 Benton Avenue, Middletown, N. Y. Student at Simmons College. *Eugenics*.
- ISRAEL HORWITZ, B.S. (Cornell), 650 East 170th Street, New York, N. Y. *Eugenics*.
- REBECCA BARNETT HUBBELL, A.B. (Mount Holyoke College), 31 Livingston Street, New Haven, Conn. Teacher. *Field Zoology*.
- MABEL CLARE HUSCHKA, B.S. (Beloit College), 46 Grafton Avenue, Moose Jaw, Sask. Recorder's Assistant, at Beloit College. *Eugenics*.
- JOHN THERON ILICK, M.A. (Syracuse University), Hulineville, Pa. Instructor at West Virginia University. *Eugenics*.
- MAUD HUNTINGTON INGALLS, B.A. (Mount Holyoke). Utica Free Academy, Utica, N. Y. Teacher of Biology. *Field Zoology*.
- JOS. KRAFKA, 502 Finley Avenue, Ottumwa, Iowa. Graduate student at University of Illinois. *Field Zoology*.
- SARA KELSALL KIRK, A.B. (Swarthmore College), 1005 East Allegheny Street, Hollidaysburg, Pa. Field worker. *Eugenics*.
- KIMBER CLEAVER KUSTER, R. No. 2, Bloomsburg, Pa. Principal of suburban school. *Comparative Anatomy*.
- JULIUS LANDOWNE, M.A. (New York University), 641 East 176th Street, New York, N. Y. Public school teacher. *Field Botany*.
- EMILY DOROTHY LANG, Shekomeko (Dutchess Co.), New York, Teacher. *Field Zoology*.
- CORA BILLINGS LATTIN, M.D. (University of Buffalo), 82 Russell Avenue, Buffalo, N. Y. Physician. *Eugenics*.



- JAY DRAKE BILLINGS LATTIN, A.B., B.S. (Cornell), 82 Russell Avenue, Buffalo, N. Y. Teacher of biology and agriculture. *Eugenics*.
- GRACE GREENLEAF LYMAN, A.M. (Smith College), 212 West 120th Street, New York, N. Y. Teacher at N. Y. Training School for Teachers. *Visitor for a week in Bird Study*.
- M. ELIZABETH MAGUIRE, 56 Chestnut Street, Apartment 219, Rochester, N. Y. Child Study Laboratory. Board of Education. *Eugenics*.
- FLORENCE VOSS MAHNKEN, B.A. (Hunter College), 598 East 167th Street, New York, N. Y. Teacher of biology at Morris High School. *Field Zoology*.
- KEZIA WARN MANIFOLD, A.B. (Goucher College), 720 Madison Avenue, York, Pa. Teacher. *Eugenics*.
- DORYS HALL McCONNELL, The Ridge, Suffern, N. Y. *Plant Ecology*.
- EDNA BERTHA McCONNELL, A.B. (Smith College). The Ridge, Suffern, N. Y. *Plant Ecology*.
- FLORENCE ELEAND MEAKIN, B.A. (Smith College), 141 Amity Street, Brooklyn, N. Y. Teacher and student of piano. *Field Zoology*.
- MATILDA AMELIA MOLDENHAUER, A.B. and M.S. (University of Pittsburgh), 409 Oakland Avenue, Pittsburgh, Pa. High School Teacher of German. *Field Zoology*.
- GEORGE GOSE PEERY, A.M. (Roanoke College), Salem, Virginia. Teacher. *Plant Ecology*.
- ANNA MARIE PETERSON, A.B. (Western Reserve University), 10095 Hulda Avenue, S. E., Cleveland, Ohio. Assistant Psychologist, Sleighton Farm, Darling, Pa. *Eugenics*.
- LILIAN WOODWARD PIERCE, 205 South Walnut Street, West Chester, Pa. Critic Teacher in Training School at West Chester. *Bird Study*.
- CLARA PENNIMAN POND, A.B. (Bryn Mawr College), State College, Pennsylvania. *Eugenics*.
- GILBERT PALMER POND, State College, Pa. Student. *Comparative Anatomy*.
- WILLARD MERRITT PORTERFIELD, Jr., A.B. (Franklin and Marshall College), 561 Lemon Street, Lancaster, Pa. Student. *Plant Ecology*.
- MABEL HARRIET PRATT, A.B. (Mount Holyoke College), West Cornwall, Conn. Teacher. *Eugenics*.
- ANNIE EVELYN RATHBUN, Anthony, Rhode Island. Student at Brown University. *Cryptogamic Botany*.

- MAUD JOSIE REED, B.S. (Washburn College), 1714 Quincey Street, Topeka, Kansas. Teacher of Biology in High School. *Field Zoology*.
- IDA LOUISE REVELEY, Ph.B. (Syracuse University), M.A. (Cornell), 437 Westcott Street, Syracuse, N. Y. Teacher at Wells College, Aurora, N. Y. *Field Zoology*.
- KENNETH STILLMAN RICE, Ph.B. (Brown University), 60 Summer Street, Gloucester, Mass. Student. *Field Zoology*.
- HARRY WILT SCHLEHNER, A.M. (Pennsylvania), Haddonfield, N. J. Instructor in Central High School of Philadelphia, Pa. *Plant Ecology*.
- IDA SITLER, A.B. (Michigan University), Mauch Chunk, Pa. Teacher. *Bird Study*.
- MILDRED SLAUGHTER, Essex Co. Hospital, Cedar Grove, N. J. Field worker. *Eugenics*.
- GLADYS G. SMITH, Eagle Rock Way, Montclair, N. J. *Bird Study*.
- PARKE H. STRUTHERS, 303 Benefit Street, Providence, R. I. *Botany*.
- GEORGE MARGARETTA TAYLOR, Demopolis, Alabama. Student at Goucher College. *Eugenics*.
- FRANK CARLETON THOMAS, Randolph, Macon College, Ashland, Virginia. Student. *Comparative Anatomy*.
- MARION BELLE TURNER, A.B. (Mount Holyoke), South Manchester, Conn. Teacher in High School. *Field Zoology*.
- HELEN FRANCES VEASEY. Teacher in public schools of Boston. *Eugenics*.
- CHARLES WEISS, 51 Hamilton Place, New York, N. Y. Student. *Field Zoology*.
- KATHRYN STILLMAN WHITNEY, Home Avenue, Middletown, Conn. *Shorter Bird Course*.
- LILLA JEAN WHITNEY, A.B. (Syracuse University), Liverpool, N. Y. Teacher. *Field Zoology*.
- BELLE WILLIAMS, B.L. (Shorter College, Rome, Ga.), Columbia, S. C. *Bird Study*.
- MARIE ROSS WOLCOTT, M.D. (University of Buffalo), 516 Franklin Street. Head of Biology, Lafayette High School. *Comparative Anatomy*.
- STERLING AVERY ZIMMERMAN, B.A. (St. Laurence University), M.A. (University of Pittsburgh), 302 Beaver Street, Sewickley, Pa. Teaching fellow. *Comparative Anatomy*.

The Twenty-fifth Session of the Laboratory will be held at Cold Spring Harbor, L. I., from July 1 to August 4 (inclusive), 1914.

### COURSES OF INSTRUCTION

All courses, except where stated to the contrary, occupy six to seven hours per day. Lectures in all Courses at 8.15 A. M.

#### ZOOLOGY

- 1—"Field Zoology," under Dr. WALTER, Dr. KORNHAUSER and Dr. DAVENPORT, with assistance from others.
- 1a—"Bird Study," under Mrs. WALTER, with Dr. EHINGER and additional assistance.
- 2—"Comparative Anatomy," Dr. D. D. WHITNEY, and HAROLD M. HINE.
- 3—General Embryology and Microscopical Technique. (Omitted 1914).
- 4—"Animal Bionomics and Evolution," under Dr. DAVENPORT.

#### BOTANY

- 1—"Cryptogamic Botany," under Dr. YORK and Dr. MANEVAL.
- 2—"Systematic and Field Botany," under Dr. HARSHBERGER.

#### EUGENICS

- 1—"Training Course for Field Workers in Eugenics," under Dr. DAVENPORT and Mr. H. H. LAUGHLIN.

#### BIOLOGICAL CLUB

A club will be formed, meeting two or three times a week, and open 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 today, 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.

#### PUBLICATIONS

Means will be provided for the publication of completed researches in the "Science Bulletin" of the Brooklyn Institute of Arts and Sciences, in the "Cold Spring Harbor Monographs," of which seven numbers are issued and two are in preparation, or elsewhere.

The following books and papers, based in whole or in part on work done, or material collected, at Cold Spring Harbor in connection with the Laboratory, have been published during the past two years:

ALICE BORING.—The Chromosomes of the Cercopidæ. *Biol. Bul.*, XXIV, 133-146. Pl. II-IV. Feb. 1913.

ANNIE P. HENCHMANN and C. B. DAVENPORT.—Clonal Variation in *Pectinatella*. *Amer. Nat.*, XLVII, 361-371. June, 1913.

HANFORD MACCURDY.—Some Effects of Sunlight on the Starfish. *Science*, July 18, 1913.

D. S. JOHNSON and H. H. YORK.—Relation of Plants to Tide-levels. *Johns-Hopkins Univ. Circular*. Feb., 1912.

SCHAEFFER, ASA A.—Habit formation in frogs. *Jour. Animal Behavior*. I, 309-335. October, 1911.

J. P. KELLY.—Heredity in a parthenogenetic Insect (*Aphis*). *Amer. Nat.* XLVII. pp. 229-234. 1913.

SIDNEY I. KORNHAUSER.—A Comparative Study of the Chromosomes in the Spermatogenesis of *Enchenopa Binotata* (Say) and *Enchenopa (Campylenchia Stål) Curvata* (Fabr.) *Archiv. für Zellforschung*, Bd. XII, No. 2, Jan., 1914.

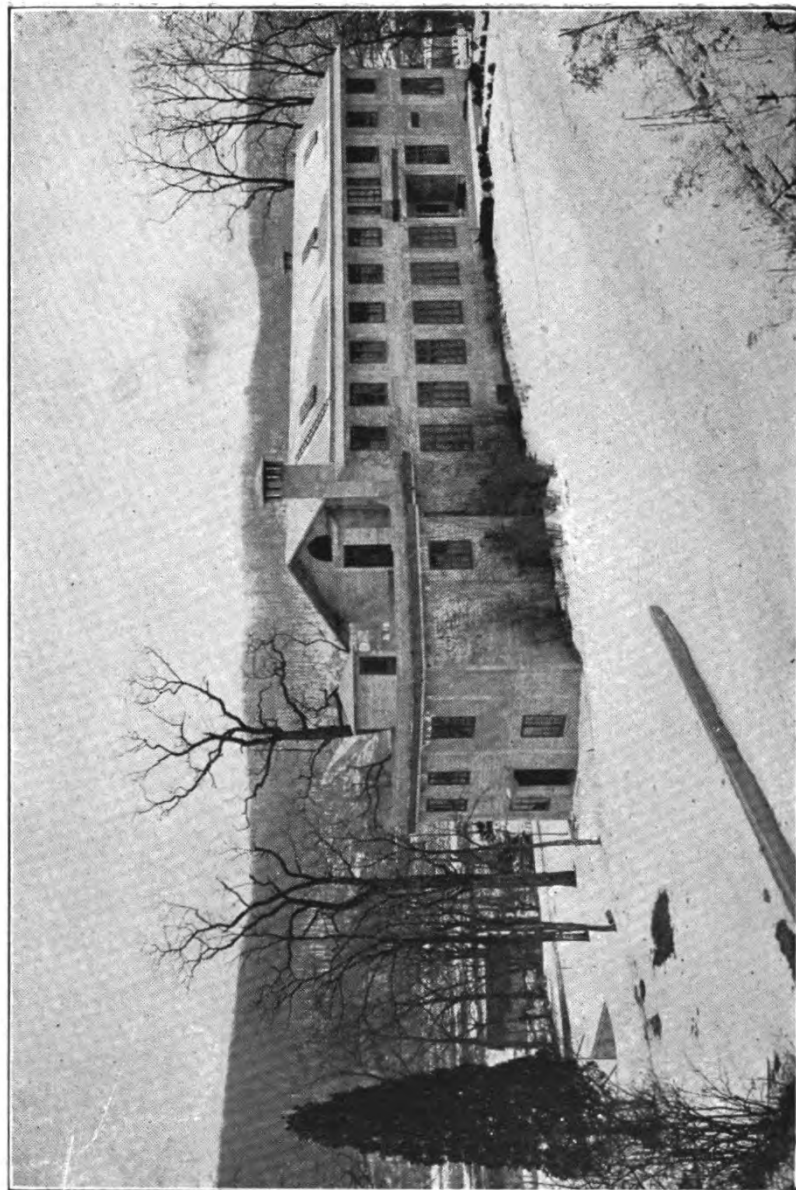
#### EQUIPMENT

The Laboratory is now in possession of several buildings:  
1. A large Laboratory accommodating about sixty students

and fitted with aquaria, running salt and fresh water, private rooms, library, etc. 2. A Laboratory building intended exclusively for investigators, containing thirteen private rooms, situated about 300 meters from the main plot of ground, and completely equipped. 3. A lecture hall, used for class lectures, public lectures, and club meetings. It is furnished with an electric lantern. In the basement of this building is a dark room for photographing purposes, equipped with running water. 4. Four dormitories, with a total capacity of 75 persons. The rooms in the dormitories are adequately furnished and are supplied with linen and towels. A fireproof dormitory for women with a general dining-hall, finely equipped, has been recently built—a gift to the Laboratory from Mrs. Eugene G. Blackford, as a memorial to Mr. Blackford, the first president of the Board of Managers of the Laboratory. It is connected with a 10,000-gallon elevated water tank, and with a sewerage system of the Waring type.

The Laboratory is equipped with a 35-foot, 12 horsepower motor boat, capable of making about 8 miles an hour, which runs on almost daily trips through the harbor and sound for purposes of dredging and conveying parties to distant collecting grounds or study areas. In addition, there are small boats, the necessary collecting apparatus, and a storeroom where instruments, stationery, optical apparatus, etc., may be purchased at a price slightly above cost. A limited number of microscopes may be rented at the Laboratory, but each person is urged to bring a dissecting microscope and a compound microscope if possible.

There is a library of both zoological and botanical works, particularly including text-books, systematic works, and several hundred books and pamphlets on animal and plant morphology and physiology. The extensive biological library (4,500 volumes) of the adjoining Station for Experimental Evolution is also available for use. There is a



BLACKFORD HALL IN WINTER, GENERAL DINING HALL AND WOMEN'S DORMITORY

card catalogue record of over 1,000 species of animals and plants found near the Laboratory.

The Laboratory is situated in a center of biological activity that is maintained throughout the year. The State of New York maintains here its largest fish hatchery, where many millions of brook trout and tomcod are annually hatched. The Station for Experimental Evolution, Carnegie Institution of Washington, is located on the grounds adjoining those of the Biological Laboratory, and is under the same direction. Twenty acres of land are occupied by gardens, pastures, breeding pens and houses, greenhouses and the main administration building. A scientific staff of six persons is constantly maintained here, and these contribute, through demonstrations and occasional lectures, to the scientific activity of the Laboratory.

The Eugenics Record Office, devoted to the collection and study of data on human heredity, has been recently established on ground nearby in a tract of about eighty acres.

#### EXPENSES AND AIDS

**Tuition.** The Laboratory fee, including one course of instruction, the general lectures, and the use of the Laboratory privileges, will be \$30. Students who make use of the Laboratory microscopes will be charged \$5 extra.

**Board** will be furnished to students only, for \$5.30 per week. Board may be furnished to relatives or friends accompanying students, if due notice is given, rate, \$1.00 per day. **Rooms** in the dormitories cost \$1.50 to \$3.00 per week, according to size and situation. The larger rooms will accommodate two students. A fee of \$5 should accompany each application for the reservation of a room. Diagrams of available rooms, with prices, will be furnished on application. The whole expense to the student for the session will be from \$75 to \$100. Arrangements for married persons and their children may be made by correspondence.

**Scholarships.** Besides the various scholarships offered by colleges and universities to students in their biological departments and applicable to this Laboratory, the following scholarship has been recently established:

The TEMPLE PRIME scholarship established by Miss CORNELIA PRIME, of Huntington, in memory of TEMPLE PRIME, a distinguished student of the mollusca. Amount about \$100. Application for the scholarship to be made to the Director of the Laboratory.

A limited number of students can defray the cost of board by waiting on table.

**Suggestions as to Outfitting.** For the benefit of novices at the seashore it is suggested that "outing clothes" are especially to be recommended, including heavy but comfortable shoes or boots, a pair of rubber-soled sneakers, clothing of resistant fabric, a complete modest bathing costume, a raincoat, and provision for cool as well as warm weather.

#### LOCATION

The situation of the Laboratory is unique. It is placed at the head of Cold Spring Harbor, a long and beautiful bay on the north shore of Long Island. This harbor is divided by an interesting beach of sand into an outer and inner basin. The outer basin opens widely into Long Island Sound, whose coast has a varied character for miles in either direction. At the mouth of the inner basin are flats where molluscs, echinoderms and burrowing crustacea and worms are abundant. The inner basin has a muddy bottom, largely exposed at low tide and offering unusual opportunities for collecting bottom animals and plants. The plancton of the inner harbor is exceptionally abundant. Into the head of the inner basin flows Nachaquatuck Creek, in whose estuary the transition from marine to fresh water and to terrestrial organisms may be clearly traced. Further up are four beautiful fresh-water lakes and streams, which contain an



abundance of fresh-water organisms. In the valley are found a salt marsh, and above the lakes a sphagnum bog. The shores of the harbor and of the lakes are densely wooded and exhibit the most diversified fauna and flora. On the upland, over two hundred feet above sea level, are stretches of meadows and gardens. Across the sound are rocky promontories and islets to which visits are made, Twelve miles to the southward, accessible by a trolley line running from the adjacent village of Huntington, is the open Atlantic beating on a great sandy beach covered with sand dunes.

**To Reach the Laboratory.** The Laboratory lies in the town of Oyster Bay on the north side of Long Island about fifteen miles beyond the nearest part of the boundary of Greater New York, and two miles from the village of Huntington. Persons coming from the West and South will find the Pennsylvania Railroad most convenient, since direct connection is made at its new terminal in Manhattan with trains to Cold Spring Harbor on the Long Island Railroad, changing cars at Jamaica. Those arriving at the Grand Central depot may go by cars to the Pennsylvania-Long Island depot at West 33d Street and Seventh Avenue, or they may take the New York subway south to its terminus at Atlantic Avenue, where transfer is made to the Long Island Railroad. From the depot a short stage ride (25c.) brings one to the Laboratory at Cold Spring Harbor. During the summer months there are ten or more trains a day from the city. From the East, the boat from New London to Greenport, L. I., may be taken; thence by rail to Hicksville, and from Hicksville to Cold Spring Harbor; but persons proposing to make this trip should determine some time in advance the times of sailing of the boat. Ferries across the Sound from Bridgeport to Port Jefferson, and from Rye, N. Y., to Glen Cove, Long Island, are usually operated daily during the summer time.

## SUBSCRIPTIONS FOR ORIGINAL RESEARCH AND EQUIPMENT

Subscriptions for the support of the Laboratory during the season of 1914 were made as follows:

## SUBSCRIPTIONS, BIOLOGICAL LABORATORY

1914

Henry F. Noyes .....	\$100.00
Walter B. James .....	100.00
Howard C. Smith .....	50.00
Albert Strauss .....	50.00
Francis M. Weld .....	20.00
T. S. Williams .....	100.00
Robert B. Woodward .....	100.00
Walter Jennings .....	100.00
Donald Scott .....	50.00
Edward Thompson .....	25.00
William J. Matheson .....	200.00
A. Augustus Healy .....	25.00
Clarence W. Seamans .....	100.00
Mrs. Eugene G. Blackford .....	100.00
John W. T. Nichols .....	50.00
Louis C. Tiffany .....	75.00
Wawepex Society .....	30.00
August Heckscher .....	50.00
Robert W. De Forest .....	25.00
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	\$1,350.00