

THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES  
July, 1910, to July, 1911

**THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES**

**1910-1911**

THE  
Twenty-third Year Book

OF

THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES

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THE PRESENT CHARTER GRANTED IN 1890

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1910-1911

CONTAINING

THE NAMES OF THE OFFICERS, COPIES OF THE CON-  
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WORK OF 1910-1911, AND A COPY OF  
LAWS RELATING SPECIFICALLY  
TO THE CORPORATION

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*"For the People by the People"*

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BROOKLYN:  
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1911

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# THE BIOLOGICAL LABORATORY

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

TWENTY-SECOND SEASON.

JULY AND AUGUST, 1911.

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## THE BOARD OF INSTRUCTION

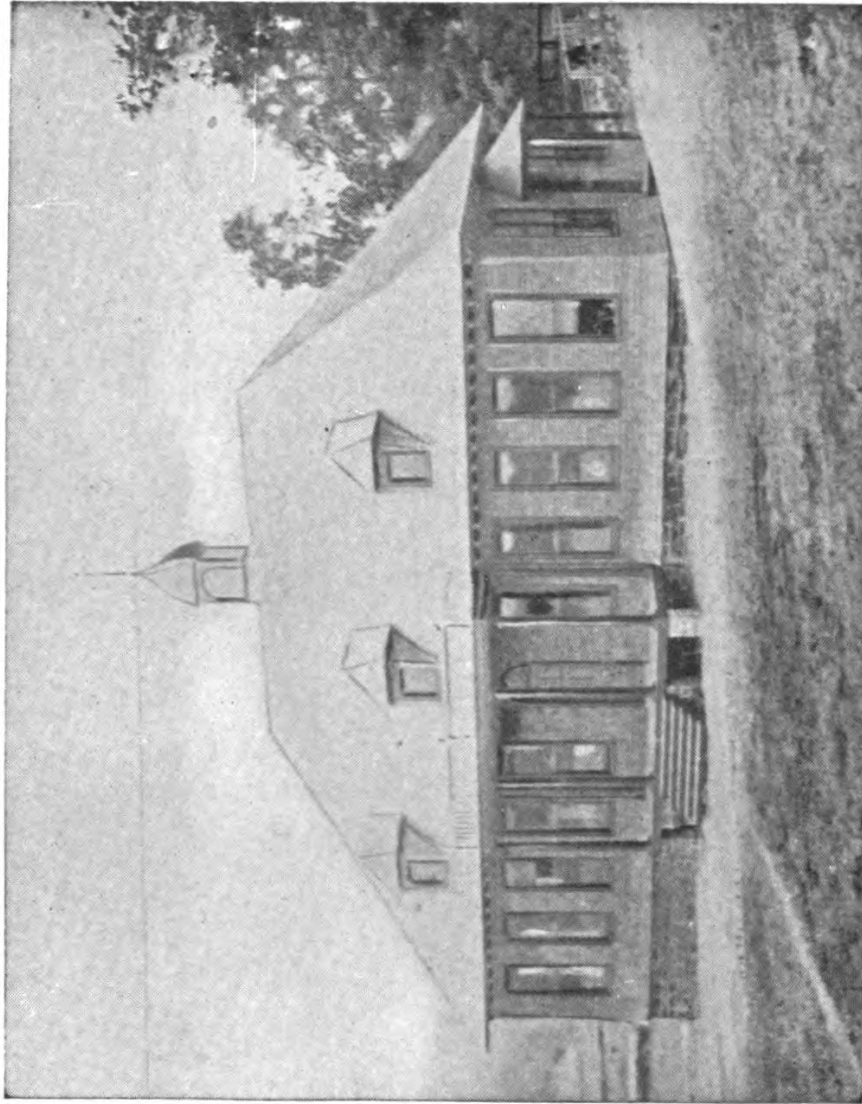
C. B. DAVENPORT, Ph.D., Carnegie Institution of Washington.  
*Director of the Laboratory.*

D. S. JOHNSON, Ph.D., Johns Hopkins University. *In charge of  
Cryptogamic Botany.*

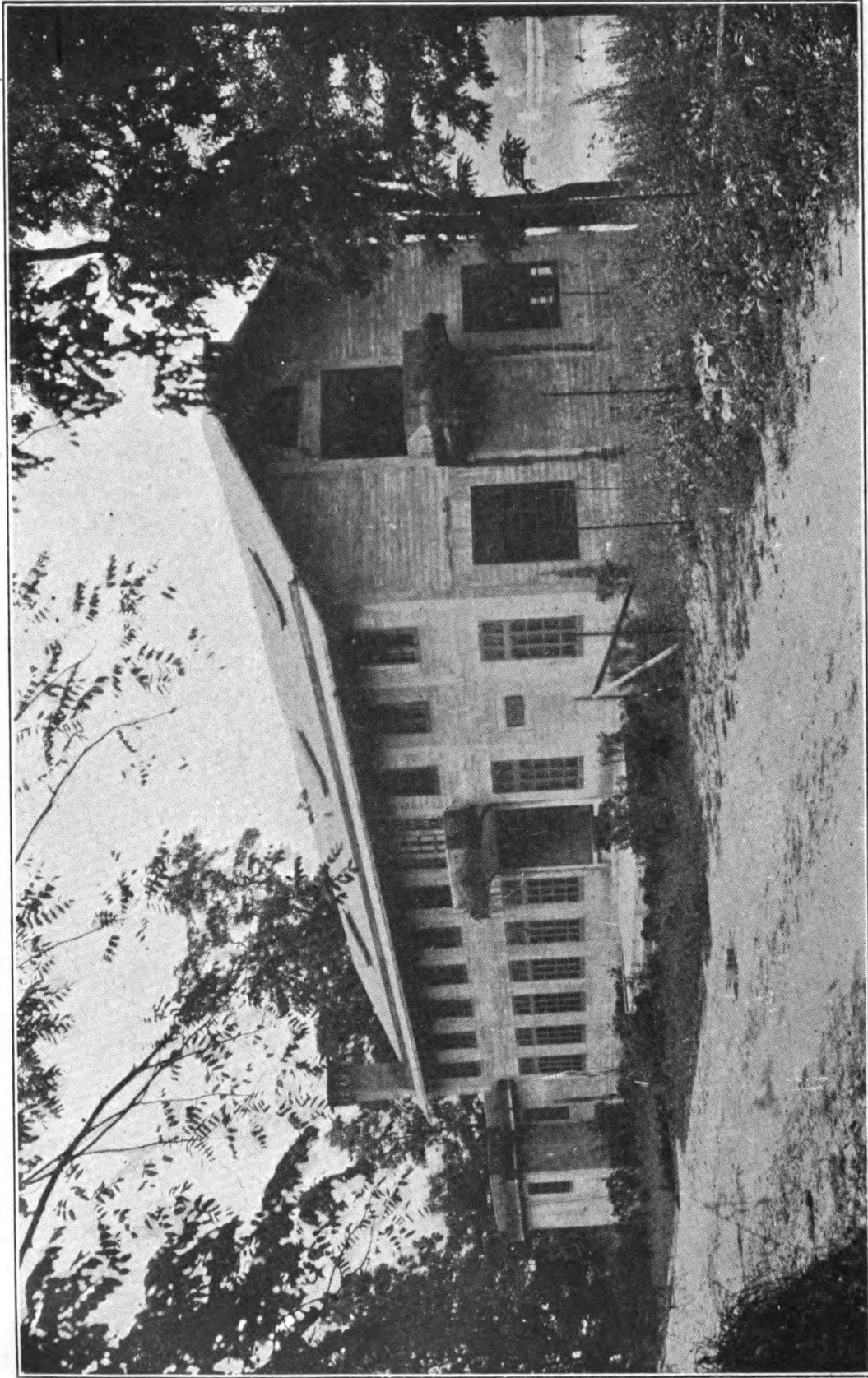
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tive Anatomy.*

H. E. WALTER, Ph.D., Brown University. *In charge of Field  
Zoölogy.*





THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR, 72X36 FEET.



THE EUGENE G. BLACKFORD MEMORIAL HALL.

HENRY S. CONARD, Ph.D., Grinnell College. *In charge of Plant Ecology.*

Mrs. ALICE HALL WALTER. *In charge of Bird Study.*

MABEL BISHOP, M.A., Goucher College. *In charge of General Embryology and Microscopical Technique.*

HARRY HAMILTON LAUGHLIN, B.S., Eugenics Record Office. *In charge of Training Course for Field Workers in Eugenics.*

ASA A. SCHAEFFER, Ph.D., University of Tennessee. *Associate in Comparative Anatomy.*

HARLAN H. YORK, M.A., University of Texas. *Associate in Botany.*

SIDNEY I. KORNHAUSER, M.A., Harvard University. *Assistant in Field Zoölogy.*

G. CLYDE FISHER, Palmer College. *Assistant in Bird Study.*

PERSONS, OTHER THAN INSTRUCTORS, ENGAGED PRIMARILY IN RESEARCH.

JOSHUA LONGSTRETH BAILY, JR., Student at Haverford College, Haverford, Pa. *Zoölogy.*

JAMES DEZETT BENNEHOF, M.S. (Alfred University), Alfred, N. Y., Professor at Alfred University. *Zoölogy.*

ESTHER FUSSELL BRYNES, Ph.D., (Bryn Mawr College), 193 Jefferson Avenue, Brooklyn, N. Y. Teacher of Biology in Girls' High School. *Embryology.*

J. FRANKLIN COLLINS, U. S. Department of Agriculture, Washington, D. C. *Chestnut Disease.*

ELIZABETH INGLE GATCH, A.B. (Woman's College of Baltimore), Goucher College, Baltimore, Md., Laboratory Instructor in Chemistry at Goucher College. *Zoölogy.*

ANNIE PARKER HENCHMAN, 10 Francis Avenue, Cambridge, Mass. *Zoölogy.*

KARL SPENCER LASHLEY, M.S. (Pittsburgh), Davis, West Virginia, Fellow in Biology, University of Pittsburgh. *Zoölogy.*

ELIZABETH SHERWOOD LUM, A.B. (Wellesley), Knollsedale, Elizabeth, N. J., Teacher of Science at The Castle, Tarrytown, N. Y. *Zoölogy.*

HAVEN METCALF, Ph.D., U. S. Department of Agriculture, Washington, D. C. *Investigations on Plant Diseases.*

AUTE RICHARDS, Ph.D. (Princeton), Mitchell, Indiana, Fellow in Princeton. *Zoölogy.*

J. M. SHULL, U. S. Department of Agriculture. *Investigations on Plant Diseases.*

ALFRED HENRY STURTEVANT, Kushla, Ala., Student at Columbia University. *Zoölogy.*

STUDENTS IN THE SEVERAL COURSES.

WALTER SCOTT ADKINS, B.S. (University of Tennessee), Coal Creek, Tennessee, Fellow in Zoölogy at University of Tennessee. *Zoölogy 1.*

LULU FLORENCE ALLABACH M.A. (Dickinson College), Fifth Avenue High School, Pittsburgh, Pa., Teacher in the Fifth Avenue High School. *Botany 1.*

WALTER SEWELL ANDERSON M.A. (Randolph Macon College), Winchester, Kentucky, Teacher in Kentucky Wesleyan College. *Eugenics.*

JAIME DE ANGULO, Bachelier es lettres (Paris), Baltimore, Md., Student at Johns Hopkins Medical School. *Eugenics.*

WILLIAM FLETCHER BLADES, A.B. (Northwestern University), 424 West 5th Street, Dubuque, Iowa, Student at Harvard University. *Eugenics.*

LILIAN CLAIRE CASH, A.B. (George Washington University), 126 Tennessee Avenue, N. E., Washington, D. C.; Cataloguer in Museum. *Botany 1.*

MARION COLLINS, A.B. (Cornell University), R. D. 5, Amsterdam, N. Y., Teacher of Science in High School. *Eugenics.*

FRANK BOYD COTNER, Strawberry, Ridge, Pa., Assistant in Bloomsburgh State Normal School. *Zoölogy 2.*

MAUDE CUTLER, A.B. (University of Vermont), Springfield, Vermont. *Eugenics.*

FLORENCE REED DAVIS, B.A. (Wellesley College), 78 Dana Street, Cambridge, Mass. *Eugenics.*

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IRENE MORTON FLOYD, A.B. (Radcliffe), 62 Myrtle Street, Waltham, Mass. *Eugenics.*

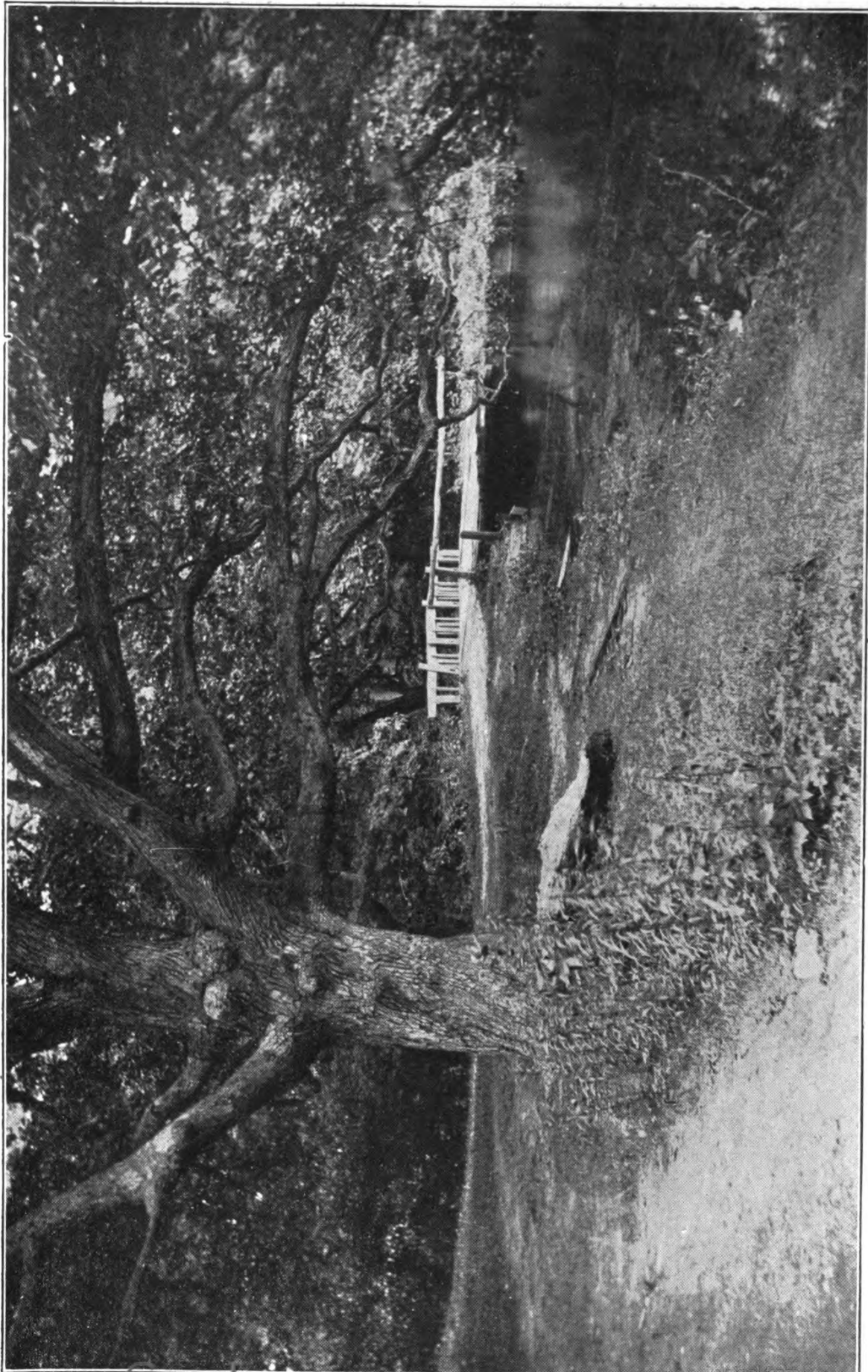
ELIZABETH VENABLE GAINES, A.M. (Columbia University), 296 Ryerson Street, Brooklyn, N. Y., Professor of Biology, Adelphi College. *Eugenics.*

LAURA BERTHA GARRETT, 1515 Bouvier Street, Philadelphia, Pa., Teacher of Sex Hygiene. *Eugenics.*

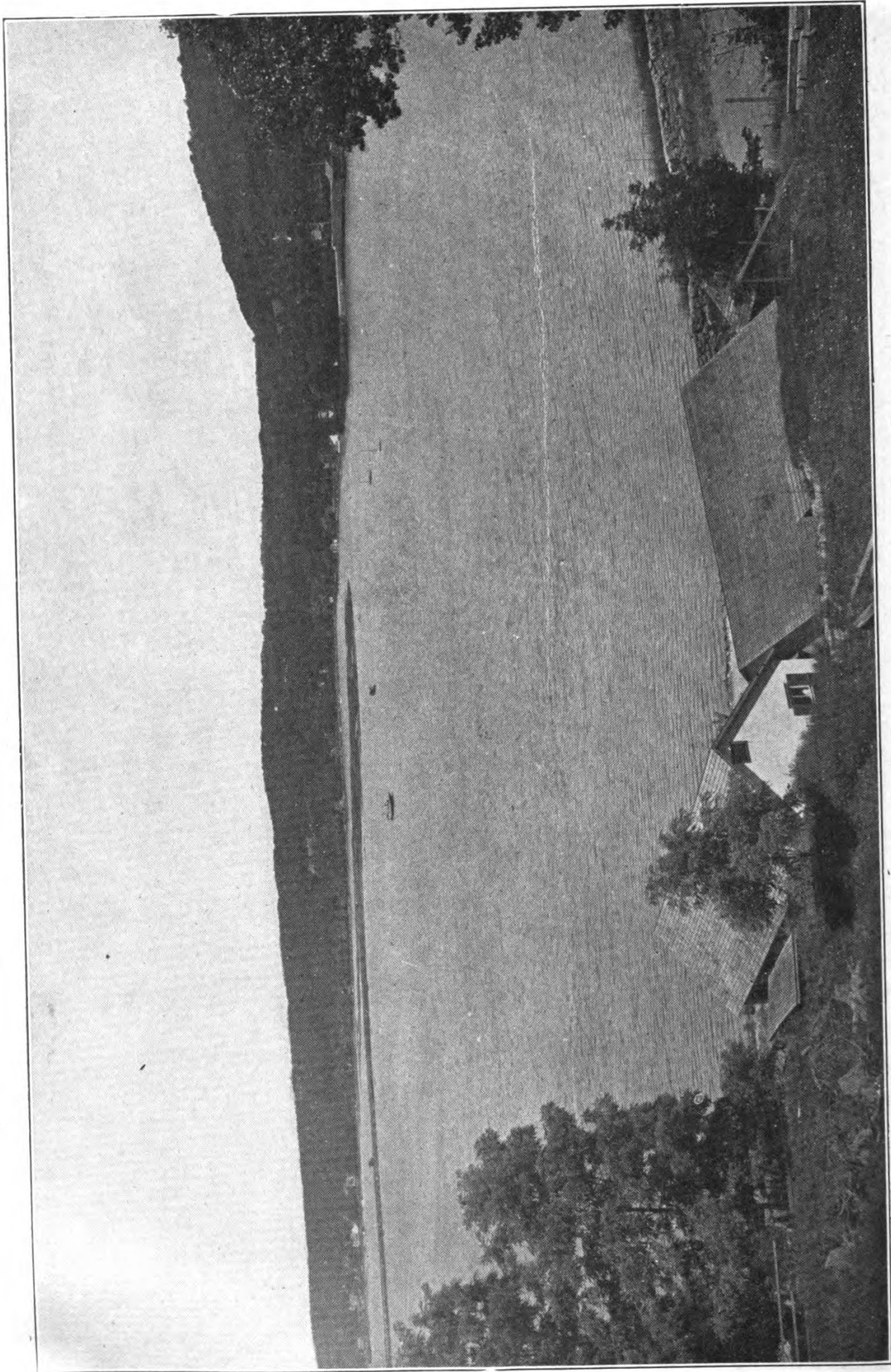


- SUSAN KATHERINE GILLEAN, M.A. (Radcliffe), 1625 Second Street, New Orleans, La. *Eugenics*.
- NORMAN McDOWELL GRIER, B.S. (University of Pittsburgh), 1936 Clayton Avenue, Pittsburgh, Pa., Fellow in Biology at the University of Pittsburg. *Zoölogy* 1.
- FRANCES ADELIA HALLOCK (Mount Holyoke College), 36 East 65th Street, New York, N. Y., Teacher. *Botany* 1.
- LUCIE HARMON, A.B. (University of Michigan), 172 21st Street, Milwaukee, Wis., Teacher in West Division High School, Milwaukee. *Zoölogy* 1.
- RUTH ELLA HATCH, B.A. Wellesley), Central Islip, Long Island, N. Y., Teacher. *Eugenics*
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- MARION ROBBINS HORTON, M.D. (Boston University), 1471 Beacon Street, Brookline, Mass., Practicing Physician. *Eugenics*.
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- FANNIE BROWNE IVANS, 428 Macon Street, Brooklyn, N. Y., Student. *Zoölogy* 2.
- HERBERT FERDINAND JACKSON, B.Ped. (State Normal College, Ala.), 1208 Dallas Street, Selma, Ala., Medical Student. *Zoölogy* 2.
- HELEN GAYLORD JOHNSON, A.B. (Oberlin College), 554 Prospect Avenue, Hartford, Conn., Teacher of Biology. *Zoölogy* 3.
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- FRANCES MACFARLAND, A.B. (University of Minnesota), 1211 Pleasant Street, Des Moines, Iowa, Teacher of Natural Science, West D. M. High School. *Zoölogy* 1.

- ETHEL CALISTA MACOMBER, Phipps Apartments, East 31st Street, New York, N. Y., Literary Work. *Eugenics*.
- ADELE MCKINNIE, A.B. (Vassar College), 2049 East 71st Street, Cleveland, Ohio, Volunteer Work. *Eugenics*.
- RUTH SALOME MOXCEY, A.B. (Oberlin College), Santa Barbara, Cal. *Eugenics*.
- ELIZABETH BAILEY MUNCEY, M.D. (Howard Medical School), Washington, D. C., Practicing Physician. *Eugenics*.
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- ALICE AYR NOYES, B.A. (Mount Holyoke), 378 Washington Street, Haverhill, Mass., Associate Professor of Biology, Sweet Briar College. *Botany* 1.
- ALICE N. PORTER, 952 Fourth, Louisville, Ky., Student at University of Tennessee. *Zoölogy* 2.
- EUGENE LOGAN POWER, B.A. (Presbyterian College of S. C.), Abbeville, S. C., Medical Student. *Zoölogy* 2.
- JANE HELENA ROSS, Government Hospital for Insane, Washington, D. C., Private Secretary. *Eugenics*.
- SHELLEY RAY SAFIR, 1744 Washington Avenue, Bronx, New York, N. Y., Student at College of City of New York. *Zoölogy* 1.
- BENJAMIN SCHWARTZ, B.A. (College of the City of New York), 209 Forsythe Street, New York, N. Y. *Zoölogy* 2.
- ABRAHAM MORRIS SPINDLER, A.B. (College of the City of New York), 125 Stanton Street, New York, N. Y. *Zoölogy* 2.
- RUTH TAYLOR, B.A. (Vassar College), Room 82, 289 Fourth Avenue, New York, N. Y., Assistant Superintendent, Children's Agencies, New York State Charities Aid Association. *Eugenics*.
- IRO C. TRUEBLOOD, A.B. (Earlham College), Amo, Ind., Teacher of Biology, High School, Greencastle, Ind. *Botany* 2.
- DOROTHY CHARLOTTE WALTER, Lyndonville, Vt., Student at Brown University. *Zoölogy* 1.
- MARGARET WASHINGTON, 4445 Perry Street, Chicago, Ill., Student at Smith College. *Zoölogy* 1.
- MINNIE ELIZABETH WATSON, A.B. (Olivet College), Oyster Bay, L. I., Teacher in Science and Mathematics Departments, Oyster Bay High School. *Zoölogy* 1.
- D. LUCILE FIELD WOODWARD, A.B. (Cornell University), Skillman, N. J., Field Worker, New Jersey State Village for Epileptics. *Eugenics*.
- SEWALL GREEN WRIGHT, B.S. (Lombard College), Galesburg, Ill. *Zoölogy* 1.



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



VIEW OF THE INNER HARBOR FROM THE DINING HALL.

## 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—"High School," under Dr. WALTER, Dr. DAVENPORT, Mr. KORNHAUSER, with assistance from others.
- 1a—Bird Study, under Mrs. WALTER, with Mr. FISHER and assistance from others.
- 2—"Comparative Anatomy," under Dr. H. S. PRATT and Dr. A. A. SCHAEFFER.
- 3—"General Embryology and Microscopical Technique," under Miss BISHOP.
- 4—"Animal Bionomics and Evolution," under Dr. DAVENPORT.

### BOTANY

- 1—"Cryptogamic Botany," under Dr. JOHNSON and Mr. YORK.
- 2—"Ecology," under Dr. CONARD with some assistance.

### EUGENICS

- 1—"Eugenics," under Dr. C. B. DAVENPORT and Mr. H. H. LAUGHLIN.

### BIOLOGICAL CLUB

This Club has been formed for the presentation of the results of researches and for the reviewing of recent biological literature. Recently addresses have been given by the following visiting naturalists; Prof. M. A. BIGELOW, Teachers College, New York; Prof. C. L. BRISTOL, New York University; Prof. H. W. CONN, Wesleyan University; Prof. ULRIC DAHLGREN, Princeton Uni-



versity; Prof. A. DAVISON, Lafayette College; Prof. BASHFORD DEAN, Columbia University; Mr. JAMES EMERTON, Boston; Dr. H. H. FIELD, Concilium Bibliographicum, Zürich, Prof. C. F. HODGE, Clark University; Prof. GRAHAM LUSK, New York University Medical School; Dr. A. G. MAYER, Carnegie Institution of Washington; Dr. D. T. MACDOUGAL, Carnegie Institution of Washington; Prof. JAMES G. NEEDHAM, Cornell University; Prof. G. H. PARKER, Harvard University; Prof. JACOB REIGHARD, University of Michigan; Prof. EDWARD L. THORNDIKE, Columbia University; Mr. GEORGE C. WHIPPLE, Brooklyn; President R. S. WOODWARD, Carnegie Institution of Washington.

#### PUBLICATIONS

The following books and papers, based in whole or in part on work done, or material collected, at Cold Spring Harbor, exclusive of the work of the Station for Experimental Evolution, have been published during recent years:

FOX, H.—The Pharyngeal Pouches and their Derivatives in the Mammalia. *Amer. Jour. of Anat.*, VIII, pp. 187-250. Oct., 1908.

STEVENS, N. M.—Further Studies on the Chromosomes of the Coleoptera. *Journal of Experimental Zoölogy*, VI, pp. 101-113. 4 plates. Jan., 1909.

BYRNES, ESTHER.—The Fresh Water Cyclops of Long Island. *Cold Spring Harbor Monographs*, VII, 43 pp., 15 plates. Mar., 1909.

LEWIS, I. F.—The Life History of *Griffithsia Bornetiana*. *Ann. of Botany*, vol. 23, pp. 639-690. Oct., 1909.

STREETER, STELLA G.—The Influence of Gravity on the Direction of Growth of *Amanita*. *Bot. Gazette*, 48, 414-426. Dec., 1909.

SHULL, A. F.—Studies in the Life Cycle of *Hydatina senta*. 1. Artificial control of the transition from the parthenogenetic to the sexual method of reproduction. *Jour. Exper. Zööl.*, VIII, 311-354. June, 1910.

MORRILL, CHARLES.—The Chromosomes in the Oögenesis, fertilization and cleavage of Coreid Hemiptera. *Biol. Bull.*, XIX, pp. 79-122, plates 1, 2. July, 1910.

## 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 13 private rooms, situated about 300 metres 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 fire-proof 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 sewerage system of the Waring type.

The Laboratory is equipped with a 35-foot, 12 horse-power 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 zoölogical 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 (3,500 volumes) of the adjoining Station for Experimental Evolution is also available for use. There is a 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 tom cod are annually hatched. The Station for Experimental Evolution, Carnegie Institution of Washington, is located on 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.

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

#### EXPENSES AND AIDS

**TUITION.** The Laboratory fee, including one or more courses of instruction, the general lectures, and the use of the laboratory privileges, is \$30. Students who make use of the Laboratory microscopes will be charged \$5 extra.

BOARD will be furnished to students only for \$5.00 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 five dollars 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 \$95. Arrangements for married persons and their children may be made by correspondence. Sites may be rented for tents.

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 organism 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.

**HOW TO REACH THE LABORATORY.** The Laboratory lies in the town of Oyster Bay on the north side of Long Island about thirty miles from Manhattan 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" 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 to its terminus at Atlantic Avenue, where transfer is made to the Long Island Railroad, or they may take the ferry, reached by trolley car, at East Thirty-fourth Street. From Cold Spring 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; 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 Stamford, Conn., to Huntington, L. I., 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 1910-1911 were made as follows:

### SUBSCRIPTIONS, BIOLOGICAL LABORATORY, 1910

William J. Matheson.....	\$200.00
Walter B. James.....	100.00
Walter Jennings .....	100.00
Clarence W. Seamans.....	100.00
Louis C. Tiffany.....	100.00
Frank S. Jones.....	100.00
Henry F. Noyes.....	100.00
George A. Brower.....	25.00
Edward Thompson .....	25.00
Col. Robert B. Woodward.....	50.00
Wawepex Society .....	30.00
Robert W. de Forest.....	50.00

A. Heckscher .....	50.00
Mrs. Eugene G. Blackford.....	100.00
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	\$1,130.00

1911

## BIOLOGICAL LABORATORY, 1911

Henry F. Noyes .....	100.00
Frank S. Jones .....	100.00
Walter B. James .....	100.00
Louis C. Tiffany .....	100.00
Wawepex Society .....	30.00
J. W. T. Nichols .....	50.00
A. Heckscher .....	50.00
Wm. J. Matheson .....	200.00
C. W. Seamans .....	100.00
Robert W. deForest.....	50.00
Col. R. B. Woodward .....	50.00
Mrs. E. G. Blackford.....	100.00
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	\$1,030.00