

THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES  
July 1916, to July 1917

**THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES.**

**1916-1917**

THE  
Twenty-ninth Year Book  
OF  
THE BROOKLYN INSTITUTE  
OF ARTS AND SCIENCES

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

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1916-1917

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 1916-1917, AND A LIST OF  
LAWS RELATING SPECIFICALLY  
TO THE CORPORATION

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*"For the People, by the People"*

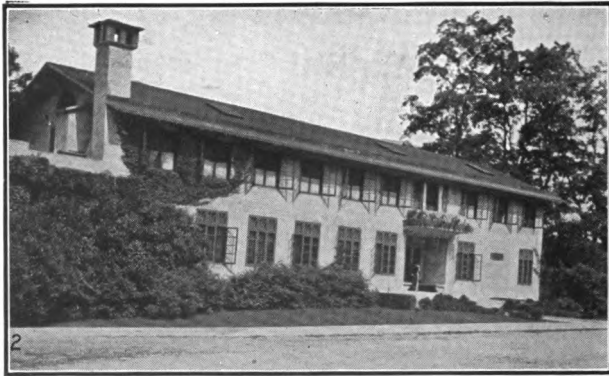
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PUBLISHED BY THE INSTITUTE  
BROOKLYN:

1918



THE BIOLOGICAL LABORATORY, FROM THE SOUTH



BLACKFORD HALL—DINING HALL, ASSEMBLY ROOM AND  
WOMEN'S DORMITORY, OF CONCRETE

BUILDINGS OF THE BIOLOGICAL LABORATORY,  
COLD SPRING HARBOR, L. I.

Mar. 20—Illustrated Lecture by FAY-COOPER COLE, Ph.D., Assistant Curator, Field Museum of Natural History, Chicago. Subject: "The Wild Tribes of the Philip-pines."

The meetings of this Branch were held at the Parish House of St. John's Church, except for the events of March 6 and 20, which were held at the Old Bijou, Wall Street, near Main.

## THE BIOLOGICAL LABORATORY

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

TWENTY-EIGHTH SEASON

JULY AND AUGUST, 1917

BOARD OF MANAGERS (1916-1917)

### *Executive Committee*

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HENRY F. NOYES	<i>Vice-President</i>
CHARLES D. ATKINS	<i>Secretary</i>
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FREDERIC A. LUCAS	RUDOLF FLINSCH
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Miss CORNELIA PRIME	HERMAN STUTZER
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J. STANLEY BROWN	DONALD SCOTT
ALBERT STRAUSS	HOWARD C. SMITH
C. STUART GAGER, Ph.D.	FRANCIS MINOT WELD
WILLIAM B. DAVENPORT	

## THE BOARD OF INSTRUCTION

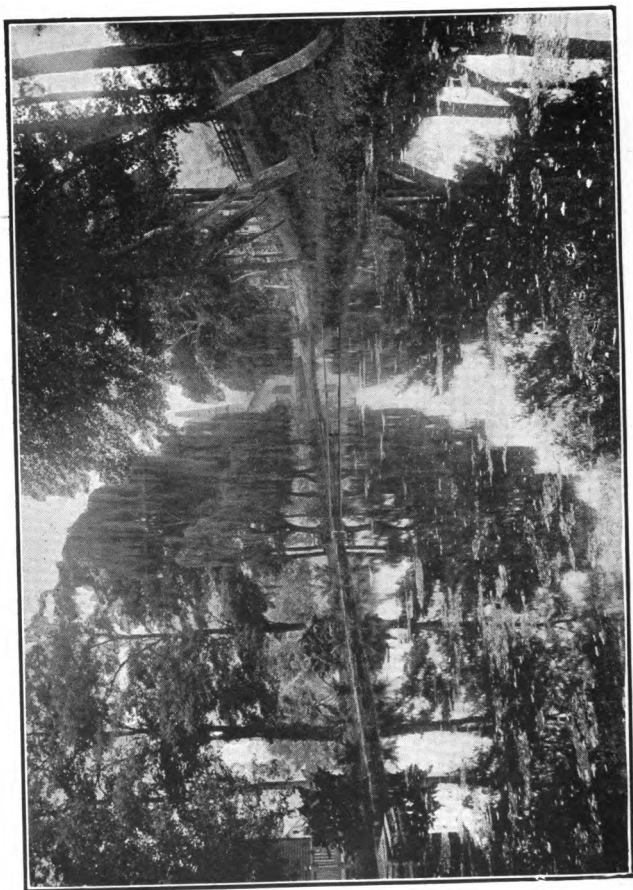
- C. B. DAVENPORT, Ph.D., Carnegie Institution of Washington, *Director of the Laboratory.*
- HERBERT E. WALTER, Ph.D., Brown University, *Assistant Director. In charge of Field Zoology.*
- HENRY S. PRATT, Ph.D., Haverford College. *In charge of Comparative Anatomy.*
- Mrs. ALICE HALL WALTER. *In charge of Bird Study.*
- 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.*
- ELIZABETH H. WRIGHT, *In charge of Economic Entomology.*
- SIDNEY I. KORNHAUSER, Ph.D., Northwestern University. *Associate in Field Zoology.*
- CHESTER A. STITELER, Easton, Pa. *Assistant in Plant Geography and Ecology.*
- EDWARD DELOS CHURCHILL, A.B., Northwestern University. *Assistant in Field Zoology.*

PERSONS, OTHER THAN INSTRUCTORS, ENGAGED PRIMARILY IN  
RESEARCH

- MEYER CASPAR FOLKOFF, A.B. (Columbia University), 19 W. 8th Street, New York, N. Y. *Graduate Student in Zoology.*
- ANNIE PARKER HENCHMAN, Jaffrey, N. H. *Pectinatella.*

## STUDENTS IN THE SEVERAL COURSES

- MARY ELLIOTT AIKEN, 127 Mills Avenue, Braddock, Pa. Student at University of Pittsburgh. *Field Zoology.*
- WALDO, ANDREWS, A.B. (Bates College), 287 Broadway, Pawtucket, R. I. Teacher. *Field Zoology.*
- ALICE EVANGELINE BEERS, New Philadelphia, Ohio. Student at Denison University. *Field Zoology.*



FISH POND AT THE HATCHERY

- ANNA ELLSWORTH BLOUNT, M.D. (Northwestern University), 124 So. Oak Park Avenue, Oak Park, Ill. Practicing medicine. *Eugenics.*
- RUTH ALMA BROWN, B.A. (Oberlin College), 2537 Robinwood Avenue, Toledo, Ohio. Social worker and psychologist at Wrentham State School, Wrentham, Mass. *Eugenics.*
- EUNICE ELIZABETH CHASE, A.B. (Brown University), Pleasant Street, North Attleboro, Mass. Student. *Eugenics.*
- MILDRED SUTPHIN COVERT, Degree from Drexel Institute, Dept. Architecture, 18 Yard Avenue, Trenton, N. J. Social worker, Lighthouse, 146 W. Lehigh, Philadelphia, Pa. *Eugenics.*
- GRACE CRUICKSHANK, B.S. (University of Kentucky), 456 Columbia Avenue, Lexington, Ky. Teacher. *Eugenics.*
- VIRGINIA NEFT FOLKOFF (Mrs.), 19 W. 8th Street, New York, N. Y. *Short Bird Course.*
- ARTHUR SCOTT GILSON, JR., 117 State Street, Portland, Me. Student. *Field Zoology.*
- HARRIET HAZEL HARTMAN (Bloomsburg State Normal School), Bloomsburg, Pa. Teacher of English and Biology. *Field Zoology.*
- ESTELLA MARY HUGHES (Mrs.); Conn. Hospital for the Insane, Middletown, Conn. Eugenics field worker. *Eugenics.*
- LILLIAN AUGUSTA KLUG, 43 Agnes Place, Glendale, Brooklyn, N. Y. Teacher. *Field Zoology.*
- ARTHUR WILLIAM KORNHAUSER, B.S. (University of Pittsburgh), 815 Hastings Street, Pittsburgh, Pa. Eugenics field work. *Eugenics.*
- FANNIE GRACE LEONARD, S.B. (Simmons College), Raynham Center, Mass. Assistant in a pathological laboratory. *Eugenics.*
- GERTRUDE ELIZABETH MACPHERSON, 122 Shepherd Avenue, Brooklyn, N. Y. Student at Adelphi College. *Plant Geography and Ecology.*
- JOHN YOUNG PENNYPACKER, Ph.D. (University of Pennsylvania), 1421 Arch Street, Philadelphia, Pa. Teacher. *Systematic Botany.*



- BERTHA PFISTER, A.B. (Sweet Briar College), Sweet Briar, Va. Student. *Eugenics*.
- NANCY FIELDING PILCHER, B.S. (University of Kentucky), 219 Kentucky Avenue, Lexington, Ky. Teacher. *Eugenics*.
- VIRGINIA ROHDE, Union Street, Dorranceton, Pa. Teacher. *Field Botany*.
- ARTHUR ADLER SONDHEIMER, A.B. (Franklin and Marshall), 131 College Avenue, Lancaster, Pa. Student at Johns Hopkins Medical School. *Eugenics*.
- PAULINE STEINBERG, A.B. (Barnard College), 541 Monroe Avenue, Elizabeth, N. J. Teacher in Bryant High School, Long Island City. *Field Zoology*.
- ELVIRA MARY STRUNK, B.S. (Albright College), College for Women, "Cedar Crest," Allentown, Pa. Teacher of Department of Science, College for Women at Allentown. *Comparative Anatomy*.
- FRANCIS HUNTINGTON SWETT, A.M. (Brown), Norway, Maine. Instructor at Tufts Premedical School. *Field Zoology*.
- JAMES JESSE TURNER, M.S. (Hiram College), Hiram, Ohio. Department of Biology at Hiram College. *Field Zoology*.
- PAUL WANDER, Ph.B. (Chicago), 289 Adelphi Street, Brooklyn, N. Y. Sociologist at a Psychiatric Clinic. *Eugenics*.
- GLADYS ELIZABETH WILBUR, A.B. (Brown University), 10 Eldredge Street, Attleboro, Mass. Teacher. *Field Zoology*.
- LOUISE L. WILLIAMS, B.S. (Denison University), Granville, Ohio. Post graduate work at Denison University. *Field Zoology*.
- ELIZABETH SOPHIA WILSON, A.M. (Columbia), Churchville, Pa. Teacher of Science. *Field Zoology*.

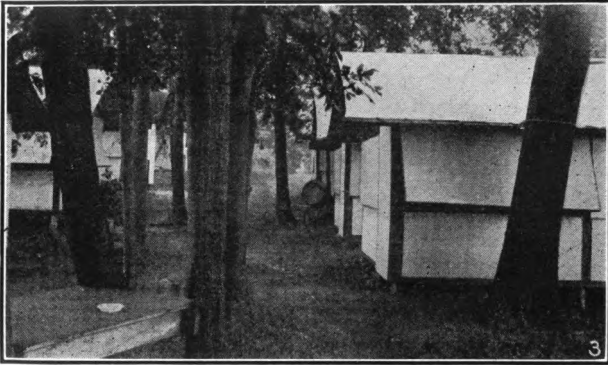
The Twenty-eighth Session of the Laboratory was held at Cold Spring Harbor, L. I., from July 5 to August 15 (inclusive), 1917.

#### COURSES OF INSTRUCTION

All courses, except where stated to the contrary, occupied six to seven hours per day. Lectures in all Courses at 8:15 A. M.

## ZOOLOGY

- 1—"Field Zoology," under Dr. WALTER, Dr. KORNHAUSER, Dr. DAVENPORT, Mr. CHURCHILL, with assistance from others.
- 1a—"Bird Study," under Mrs. WALTER, with assistance.
- 2—"Comparative Anatomy," Dr. H. S. PRATT.
- 3—"Animal Bionomics and Evolution," under Dr. DAVENPORT.



ONE OF THE TENT COLONIES, ON THE GROUNDS OF THE  
EUGENICS RECORD OFFICE

## BOTANY

- 1—"Cryptogamic Botany," omitted for 1917.
- 2—"Systematic and Field Botany," under Dr. J. W. HARSHBERGER and Mr. C. A. STITELER.
- 3—"Advanced Botany," under Dr. HARSHBERGER.

## EUGENICS

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

## BIOLOGICAL CLUB

A club was 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 to-day, and may gain some practice in the presentation of papers and in the free discussion of them. The club was addressed also by visiting naturalists.

## PUBLICATIONS

Means are 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," 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:

HENRY J. FRY—A Study of the Seasonal Decline of Bird Song. *The Auk*, Vol. XXXIII, No. 1, January, 1916, 12 pp., 1 chart.

DAVID DAY WHITNEY—The Control of Sex by Food in Five Species of Rotifers. *Jour. of Exper. Zool.*, Vol. XX, pp. 263-296. February, 1916.

MINNIE E. WATSON—Three New Gregarines from Marine Crustacea. *Journal of Parasitology*, March, 1916, Vol. II, pp. 129-136.

MINNIE E. WATSON—Some New Gregarine Parasites from Anthropoda. *Journal of Parasitology*, September, 1915, Vol. II, pp. 27-36.

MINNIE E. WATSON—A new Infusorian Parasite in Sand Fleas. *Journal of Parasitology*, March, 1916, Vol. II, pp. 145 and 146.

BENJAMIN SCHWARTZ and SHELLEY A. SAFIR—The Natural History and Behavior of the Fiddler Crab. *Cold Spring Harbor Monographs*, No. 8, 24 pages. June, 1915.

HARRISON R. HUNT—Regeneration Posteriorly in *Enchytraeus Albidus*. Reprinted from *American Naturalist*, Vol. XLIX, No. 584, pp. 495-503. August, 1915.

DUNCAN S. JOHNSON and HARLAN H. YORK—The Relation of Plants to Tide Levels; A Study of Factors Affecting the Distribution of Marine Plants. Publication of the Carnegie Institution of Washington, No. 206, 163 pages, 20 plates and charts. 1916.

### EQUIPMENT

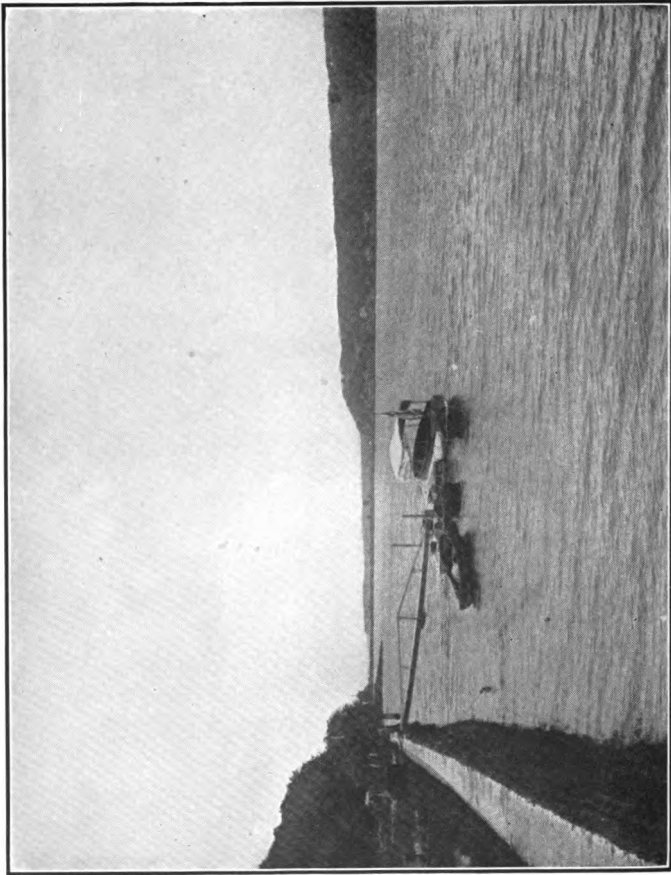
The Laboratory is now in possession of several buildings:

1. A large laboratory accommodating about sixty students and fitted with aquaria, running salt and fresh water, electric lights, 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.
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 lighted by electricity and is connected with a 10,000-gallon elevated water tank, and with a sewerage system of the Waring type. For the accommodation of students in the Training Course for Field Workers in Eugenics, and for others, there are two tent colonies (comprising eleven tents, each with two single beds and furnished) on the land of the Eugenics Record Office. But all members of the Laboratory may board at Blackford Hall.

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 store-room 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 (5,200 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 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 seven 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



VIEW OF THE INNER HARBOR FROM LABORATORY WHARF

on human heredity, is located near by 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, during the season 1917, was \$30. Students who made use of the Laboratory microscopes were charged \$5 extra.

**Board** was furnished to students only for \$5.50 per week. Board was furnished to relatives or friends accompanying students, due notice being given, at \$1.00 per day. **Rooms** in the dormitories cost \$1.50 to \$3.00 per week, according to size and situation. The larger rooms accommodate two students. The rental for the tents (each holding two persons) was \$2.00 for each person, per week, furnished and cared for. A fee of five dollars was required with each application for the reservation of a room. Diagrams of available rooms, with prices, were furnished on application. The whole expense to the student for the session was from \$75 to \$110. Arrangements for married persons and their children were made by correspondence, rooms being obtained in the neighborhood for relatives of students. The Laboratory has a few rowboats, each available for a party of four or five persons, at a rental of five dollars for the season.

**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 \$100.

Application for this scholarship is to be made to the Director of the Laboratory before April 1st, on which day award is made.

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.

**How to Reach the Laboratory.** The Laboratory lies 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 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 Bridge-



port to Port Jefferson, and from Rye, N. Y., to Glen Cove, Long Island, are usually operated daily during the summer time.

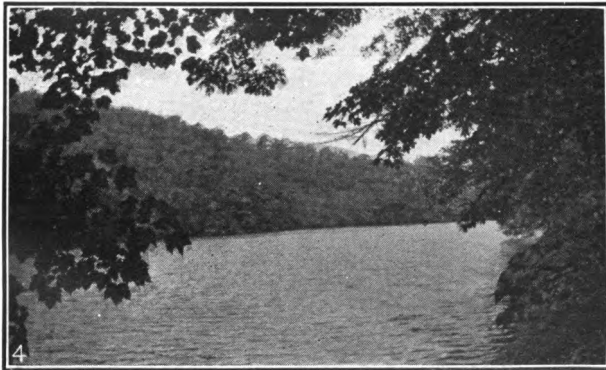
#### SUBSCRIPTIONS FOR ORIGINAL RESEARCH AND EQUIPMENT.

Subscriptions for the support of the Laboratory during the season of 1917 were made as follows:

#### SUBSCRIPTIONS, BIOLOGICAL LABORATORY.

1917

Francis M. Weld.....	\$ 25.00
Edward Thompson .....	25.00
Robert W. DeForest.....	25.00
Dr. Walter B. James.....	100.00
John W. T. Nichols.....	50.00
Dr. A. G. Mayer.....	10.00
Wawepex Society .....	30.00
	<hr/>
	\$265.00



THE SECOND LAKE