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### THE

# EIGHTEENTH YEAR BOOK

**OF** 

# THE BROOKLYN INSTITUTE OF ARTS AND SCIENCES

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1905-1906

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"For the People by the People."

BROOKLYN:
PUBLISHED BY THE INSTITUTE
1906.

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

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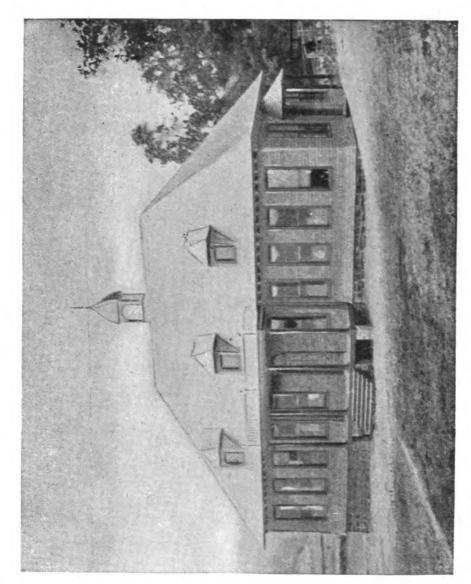
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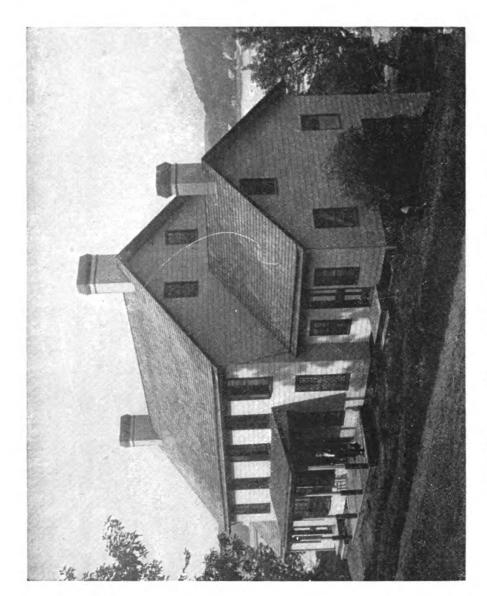
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THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR, 72x36 FEET.



THE DINING HALL AT THE BIOLOGICAL LABORATORY

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## Persons, Other Than Instructors, Engaged Primarily in Research.

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- EDITH NASON BUCKINGHAM, M.A. (Radcliffe College), Teacher of Science, Abington (Mass.) High School, 342 Marlborough street, Boston, Mass. Zoölogy.
- Louis Israel Dublin, Ph.D. (Columbia University), Instructor, College of City of New York, 100 Convent avenue, New York, N. Y. Cytology.
- HENRY Fox, Ph.D. (University of Pennsylvania), Teacher of Science, North East Manual Training School, 4440 North 19th street, Philadelphia, Pa. Zoölogy.
- NETTIE MARIA STEVENS, Ph.D. (Bryn Mawr), Associate in Experimental Morphology, Bryn Mawr College, Bryn Mawr, Pa. Zoölogy.
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- ISAAC BILDERSEE, B.S. (College City of New York), Teacher in Public Schools, 213 West 105th street, New York, N. Y. Zoölogy 1.
- MARSHALL BAXTER CUMMINGS, M.S. (University of Maine), Teacher of Botany in the University of Maine, Orono, Me. Botany 1.
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- MARY HARRIMAN, B.A. (Barnard Coll. Graduate Student), Arden, Orange Co., N. Y. Zoölogy 3.



- CORINNE JACKSON, (Special at Radcliffe), Student, 505 American Building, Baltimore, Md. Zoölogy 2.
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- Evangeline Ada Moon, B.A. (Normal College), Teacher, 59 Perry street, New York, N. Y. Botany 2.
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- HARRIETT EVA MORTON, M.A. (Acadia College), Teacher of Science in the High School, Chicopee, Mass., 228 Pine street, Springfield, Mass. Zoölogy 2 and 1a.
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- WILLIAM SHIDELER, Student at Miami University, Oxford, Ohio.

  Botany 1.
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- ALVALYN EUNICE WOODWARD, Ph.B. (University of Rochester), Teacher of Botany and Chemistry, Vassar, Mich. Zoölogy 2.



### Courses of Instruction

- I Zoölogy 1. "High School Zoölogy, under Dr. C. B. DAVENPORT and Dr. H. E. WALTER.
- II Zoölogy 2. "Comparative Anatomy," under Dr. H. S. Pratt and Mr. Leslie B. Seely.
- III Zoölogy 3. "Embryology," under Dr. H. E. CRAMP-TON and W. J. MOENKHAUS.
- IV Zoölogy 4. "Animal Bionomics and Variation," under Dr. C. B. DAVENPORT.
- V BOTANY I. "Cryptogamic Botany," under Dr. D. S. JOHNSON and Mr. H. H. YORK.
- VI BOTANY 2. "Ecology," under Dr. E. N. TRANSEAU.
- VII BOTANY 3. Seminar in "Ecology," under Dr. E. N. TRANSEAU.
- VIII "Microscopic Methods," 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:

Prof. M. A. BIGELOW, Teachers College, New York; Prof. C. L. BRISTOL, New York University; Prof. H. W. Conn, Wesleyan University; Prof. A. Davison, Lafayette College; Prof. Bashford Dean, Columbia University; Prof. R. E. Dodge, Columbia University; Dr. Georg Duncker, Hamburg; James H. Emerton, Boston; Dr. H. H. Field, Concilium Bibliographicum, Zurich; Prof. J. S. Kingsley, Tufts College; Prof. F. E. Lloyd, Teachers College; Prof. Graham Lusk, New York University Medical School; Dr. D. T. MacDougal, New York Botanic Garden; Dr. A. G. Mayer, Museum, Brooklyn Institute; Prof. James G. Needham, Lake Forest University; Prof. G. H. Parker, Harvard University; Prof. Jacob Reighard, University of

Michigan; Dr. N. M. Stevens, Bryn Mawr College; Prof. Edward L. Thorndike, Columbia University; Prof. W. L. Tower, University of Chicago; Dr. W. M. Wheeler, American Museum of Natural History, New York; Mr. George C. Whipple, Brooklyn, and others.

### 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:

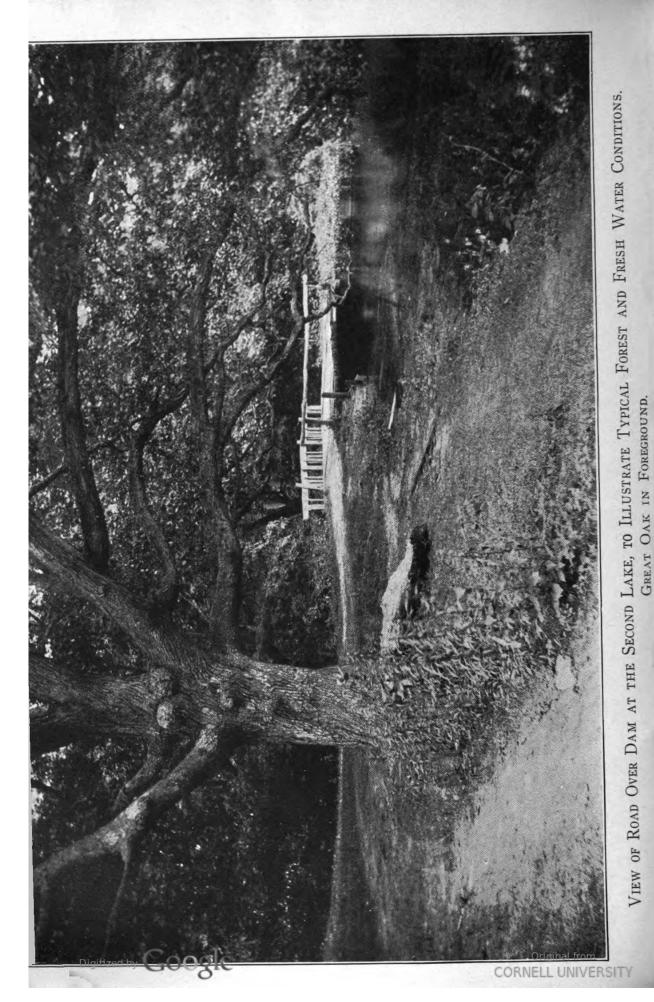
- 43. ALFRED G. MAYER.—Sea-Shore Life. The Invertebrates of the New York Coast. New York Aquarium Nature Series, No. 1. 1905.
- 44. HERBERT OSBORN.—Jassidæ of New York State. N. Y. State Museum, Report of the State Entomologist for 1904, pp. 498-545. 1905.
- 45. W. E. Kellicott.—The Development of the Vascular and Reproductive Systems of Ceratodus. Mem. N. Y. Acad. of Sci., vol. II., Pt. IV., pp. 131-249. Pls. IX.-XIII. 1905.
- 46. H. E. Walter.—The Behavior of the Pond Snail. Lymnæus elodes Say. Cold Spring Harbor Monographs, VI., 35 pp. March, 1906.

### 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. Here 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



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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. 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 1906 were made as follows:

WILLIAM J. MATHESON	\$100.00
Frank S. Jones	100.00
Henry F. Noyes	100.00
Louis C. Tiffany	100.00
Walter Jennings	100.00
Walter B. James	100.00
Mrs. F. L. Blackford	100.00
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