

**THE BROOKLYN INSTITUTE
OF ARTS AND SCIENCES**

July, 1904, to July, 1905

**THE BROOKLYN INSTITUTE
OF ARTS AND SCIENCES**

1904-1905

THE
SEVENTEENTH YEAR BOOK
OF
THE BROOKLYN INSTITUTE
OF ARTS AND SCIENCES

FOUNDED 1824
RE-CHARTERED 1824, 1843, 1862
THE PRESENT CHARTER GRANTED IN 1890

1904-1905

CONTAINING
THE NAMES OF THE OFFICERS AND OF MEMBERS,
A BRIEF HISTORY OF THE INSTITUTE, AN
ACCOUNT OF THE WORK OF 1904-1905,
AND A COPY OF THE LAWS RE-
LATING SPECIFICALLY TO
THE CORPORATION.

"For the People, by the People"

BROOKLYN:
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1905

THE BIOLOGICAL LABORATORY

[Located at Cold Spring Harbor, L. I.]

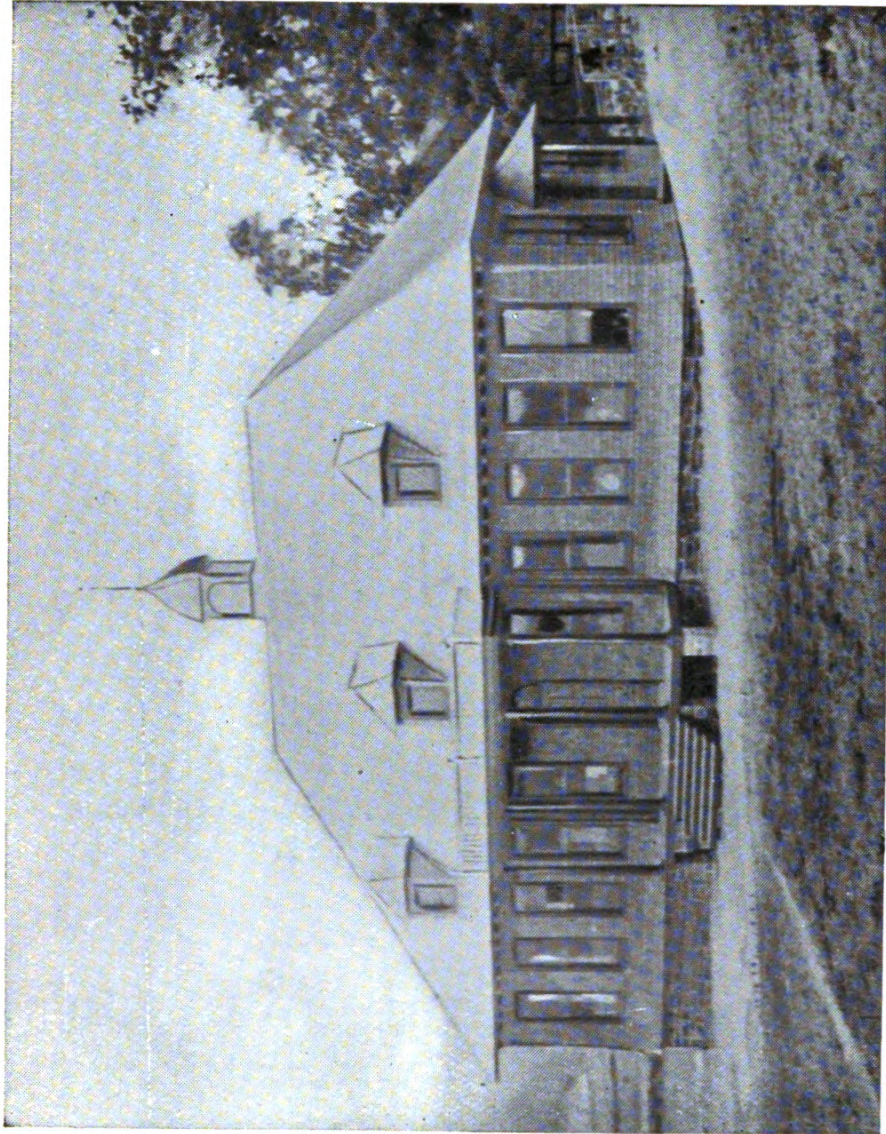
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THE JOHN D. JONES LABORATORY BUILDING, COLD SPRING HARBOR, 72 x 36 FEET



THE DINING HALL AT THE BIOLOGICAL LABORATORY

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PERSONS, OTHER THAN INSTRUCTORS, ENGAGED
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- H. L. ALBERT**, Professor of Biology, State Normal School, Cape Girardeau, Missouri. *Botany.*
- EDITH M. BRACE**, Professor of Biology, Western Maryland University. *Zoölogy.*
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STUDENTS IN THE SEVERAL COURSES

- CHARLES ORVAL APPLEMAN, Ph.B. (Dickinson College), Teacher of Biology, Lombard College, Galesburg, Ill. *Botany 1.*
- ELLEN KNAPP BRANDENBURG, B.S. (George Washington University), Teacher, English and History in Technical High School, 915 Front street, Washington, D. C. *Botany 1.*
- ETHEL NICHOLSON BROWNE, Student, Woman's College of Baltimore, 510 Park avenue, Baltimore, Md. *Zoölogy 2.*
- ELMA CHANDLER, A.B. (University of Michigan), Teacher of Botany in High School, 110 S. Channing street, Elgin, Ill. *Zoölogy 1, Botany 2.*
- MARY COE CHEDSEY, B.S. (Teachers College, Columbia University), Teacher of Botany in Barnard College, Park Hill, Yonkers, N. Y. *Botany 1.*
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- CLARENCE MARCY, Assistant in Biology, State Normal School, Bloomsburg, Pa. *Zoölogy 2, Botany 1.*
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- MAX RADIN, A.B. (College City of New York), Instructor, DeWitt Clinton High School, 844 Teasdale place, New York, N. Y.

- ASA ARTHUR SCHAEFFER, A.B. (Franklin and Marshall College),
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Teacher of Biology, High School, 7808 Union avenue, Chicago,
Ill. *Zoölogy* 1.
- LEVI JOSEPH ULMER, Sc.B. (Bucknell University), Department of
Science, Williamsport High School, 423 Mulberry street, Wil-
liamsport, Pa. *Botany* 1, *Botany* 2.
- LOUISE ALBERTA WANDELL, A.B. (Vassar College), Student, 157
Taylor street, Brooklyn, N. Y. *Botany* 1.

COURSES OF INSTRUCTION

- I ZOÖLOGY 1. "High School Zoölogy," under Dr. C. B. DAVENPORT and Dr. R. S. BREED, with some assistance from Dr. W. M. WHEELER.
- II ZOÖLOGY 2. "Comparative Anatomy," under Dr. H. S. PRATT and Dr. D. B. CASTEEL.
- III ZOÖLOGY 3. "Embryology," under Dr. H. E. CRAMP-
TON and W. J. MOENKHAUS.
- IV ZOÖLOGY 4. "Animal Bionomics and Variation," un-
der Dr. C. B. DAVENPORT.
- V BOTANY 1. "Cryptogamic Botany," under Dr. D. S. JOHNSON and Mr. A. H. CHIVERS.
- VI BOTANY 2. "Ecology," under Mr. FORREST SHREVE.
- VII BOTANY 3. Seminar in "Ecology," under Mr. FORREST SHREVE.
- 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. R. E. CALL, Children's Museum, Brooklyn Institute; 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; 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:

33. C. B. DAVENPORT.—Color Inheritance in Mice. *Science*, N. S. XIX, 110-114. Jan. 15, 1904.

34. W. J. MOENKHAUS.—The Development of the Hybrids between *Fundulus heteroclitus* and *Menidia notata*, with special reference to the behavior of the maternal and paternal chromatin. *The American Journal of Anatomy*, III, 29-65, Pls. I-IV. Mar. 31, 1904.

35. WILHELMINE M. ENTEMAN.—Coloration in *Polistes*. Publication of the Carnegie Institution of Washington, No. 19. 88 pp., 6 colored plates. 1904.



VIEW OF THE ESTUARY AND INNER HARBOR, LOOKING DOWN THE VALLEY. THE LABORATORIES STAND ON THE LEFT SIDE OF THE INNER HARBOR.



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

36. MABEL E. SMALLWOOD.—The Salt-Marsh Amphipod—*Orchestia palustris*. Cold Spring Harbor Monographs, III.

37. ELLA M. BRIGGS.—The Life History of Case-Bearing Insects, I:—*Clamys plicata*. With one plate and Eleven text figures. Cold Spring Harbor Monographs, IV.

38. ABAGAIL C. DIMON.—The Mud Snail, *Nassa*. Cold Spring Harbor Monographs, V.

39. LOUIS I. DUBLIN.—The History of the Germ Cells in *Pedicellina Americana*. Annals of the New York Academy of Sciences, XVI, 1-60. Pls. I-III. 1905.

40. LOUIS I. DUBLIN.—On the Nucleoli in the Somatic and Germ Cells of *Pedicellaria Americana*. Biological Bulletin, VIII, 347-364. May, 1905.

41. CHARLES ZELENY.—Compensatory Regulation. Jour. of Experimental Zoology, II, 1-102, 27 text figures. April, 1905.

42. CHARLES ZELENY.—The Regeneration of a Double Chela in the Fiddler Crab (*Gelasimus pugilator*) in place of a normal single one. Biological Bulletin, IX, 152-155. August, 1905.

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 perfected by which research may be done at the Laboratory at almost any time of the year.

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.

The following special gifts have been made to the Laboratory Library during the year:

ROBERT S. BREED.....	I	pamphlet.
H. H. WILDER.....	I	"
W. L. TOWER.....	I	"

CONTRIBUTIONS FOR ORIGINAL RESEARCH AND EQUIPMENT

Subscriptions for the support of the Laboratory during the season of 1905-1906 were made as follows:

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