

12. *Changes in the Drainage System in the Vicinity of Lake Ontario during the Glacial Period.* By DR. M. A. VEEDER, Lyons, N. Y. The paper noted sections of wells in buried river channels south of Lake Ontario, from the Niagara River eastward to the Mohawk Valley.

13. *Recent Severe Seismic Movements in Nicaragua.* By JOHN CRAWFORD, Managua, Nicaragua. Description of a series of earthquakes experienced in western Nicaragua from April 29th to May 12th of this year, as reported by the author in the *American Geologist* for July (Vol. XXII., pp. 56-58).

WARREN UPHAM,

*Secretary of Section E, 1898.*  
(To be Concluded.)

#### THE BOTANICAL SOCIETY OF AMERICA.

THE fourth annual meeting was held at Boston, August 19 and 20, 1898, under the presidency of Dr. N. L. Britton.

In the absence of Professor C. R. Barnes, Secretary, Dr. B. L. Robinson was elected Secretary *pro tem*.

The following new members were elected: Robert A. Harper, University of Wisconsin, Madison; Edward A. Burt, Middlebury College, Middlebury, Vt.; Herbert J. Webber, Department of Agriculture, Washington, D. C.; L. H. Pammel, Iowa Agricultural College, Ames; Albert S. Hitchcock, Kansas Agricultural College, Manhattan; Herbert Maule Richards, Harvard University, Cambridge, Mass.; David G. Fairchild, Department of Agriculture, Washington, D. C.; David M. Mottier, University of Indiana, Bloomington.

In the absence of the retiring President, Professor John M. Coulter, his address, entitled 'The Origin of Gymnosperms and the Seed Habit,' was read by Dr. B. M. Davis. It has been published in this JOURNAL.

The following papers were presented:

1. On Sporogenesis in *Arisæma*. By Professor George F. Atkinson.

2. Symbiotic Saprophytism. By Professor D. T. MacDougal.

3. Sporogenesis in *Trillium*. By Professor George F. Atkinson.

4. The Structure and Development of the Centrosphere in *Corallina*. By Dr. B. M. Davis.

5. Relations Between the Forest Flora and Geological Formations in New Jersey. By Dr. Arthur Hollick.

6. Preliminary Notes on the Fertilization of the White Pine. By Miss M. C. Ferguson (by invitation of the Council).

7. Notes on a *Helianthus* from Long Island. By Dr. N. L. Britton.

8. Tetrad-formation in *Tsuga*. By W. A. Murrill. (Presented by Professor Atkinson.)

9. A Fossil Moss from the State of Washington. By Mrs. E. G. Britton and Dr. Arthur Hollick.

The following officers were elected for the ensuing year: President, Professor L. M. Underwood; Vice-President, Dr. B. L. Robinson; Treasurer, Dr. Arthur Hollick; Secretary, Professor Geo. F. Atkinson; Councillors, Professor C. E. Bessey and Dr. W. P. Wilson.

#### MEETING OF THE AMERICAN FORESTRY ASSOCIATION AT BOSTON.

THE meeting of the American Forestry Association, held in connection with the American Association for the Advancement of Science, was chiefly interesting for the reports of progress of the forestry movement. The sessions were held at Horticultural Hall, on Tuesday, August 23d, to Thursday, August 25th. The social features and excursions of interest, lavishly provided by a local committee and the Massachusetts State Forestry Association, formed a prominent part of the meeting. The opening session was mainly occupied by reports from delegates of various States as to the condition of the forestry movement. Forest Commissioner Rothrock, of Pennsylvania, reported progress in the establishment of State Forest Reserves. Mr. Austin Cary, of Maine, referred to his employment by a paper-pulp manufacturing company to direct the logging of their large forest