

(Bradley Stoughton, *chairman*; Colin G. Fink, *secretary*), which held a most successful symposium on "Electric Cast Iron" at the Baltimore meeting, in April last, will again be in charge. Twelve papers especially prepared for this session and dwelling on industrial heating in electric furnaces, other than fusion and melting furnaces, will be placed open to discussion.

There will be papers on:

- a. History of industrial heating.
- b. Principles of design of furnaces.
- c. Comparison of fuel costs in different types of electric furnaces, and with combustion furnaces. (In this connection, electric energy would be estimated as a "fuel cost.")
- d. Resistor materials.
- e. Specific heats.
- f. Electric conductivity of insulating materials at industrial furnace temperatures.
- g. Heat emissivity.
- h. Heat transfer.

There will be an excursion to Shawinigan Falls, affording members an opportunity to inspect the various industrial plants of one of the most progressive centers on the continent. It is planned to have a special train for this all day trip from Montreal.

A popular lecture on "Progress in physical science" is scheduled for Thursday evening. Section Q will be in charge of an old-fashioned smoker on Friday evening.

The headquarters for this meeting will be the Hotel Windsor. Members and guests are urged to make their hotel reservations immediately.

THE BIOLOGY CLUB OF THE OHIO STATE UNIVERSITY

DURING the academic year of 1921-1922, the Biology Club of the Ohio State University held monthly meetings from October to May inclusive. Considerable interest was manifested in the programs, to which contributed various members of the biological and related departments, and some graduate students doing original research in these departments. The following papers were presented:

October 3: "Experiences in England, with observations on the status of botanical research and interest there," Professor A. E. Waller.

November 7: "The ductless glands," Professor R. G. Hoskins; "The work of the Ohio State Fish Survey," Professor R. C. Osburn.

December 5: "Glaciation of the San Juan Mountains, with notes of paleontological and natural history interest," Dr. R. F. Webb.

January 9: Reports of the zoological and entomological meetings and other sessions and general meetings of the American Association for the Advancement of Science, at Toronto, Professor R. C. Osburn, Professor F. H. Kreckler, Professor D. M. DeLong, Professor C. H. Kennedy.

February 13: "The problems of biology from the standpoint of a philosopher," Professor A. E. Avey.

March 6: "The distribution of the dragon flies of the Put-in-Bay region," Professor C. H. Kennedy; "The reactions of house flies to radiant heat," Professor W. M. Barrows.

April 3: "The physiology of the guard cells of *Rumex patientia*," Mr. J. D. Sayre; "The nature of twig abscission in cottonwood, *Populus deltoides*," Miss Lois Lampe.

May 8: "Mushrooms and toadstools," Professor W. G. Stover; "Habits of aphid parasites," Mr. H. Spencer.

The president of the club for the year was Dr. E. P. Durrant, of the department of physiology; the vice-president, Dr. R. C. Baker, of the department of anatomy, and the secretary-treasurer, Mr. W. C. Kraatz, of the department of zoology and entomology.

THE GORGAS MEMORIAL

IN response to a request received from the directors of the Gorgas Memorial Institute of Tropical and Preventive Medicine for the co-operation of the American Medical Association, a committee representing the association was appointed consisting of Dr. Charles W. Richardson, Washington, D. C.; Dr. Fred B. Lund, Boston, and Dr. George E. de Schweinitz, Philadelphia. This committee has presented the following report:

As a result of the stimulating suggestion of President Porras, of Panama, it has been resolved that a fitting memorial shall mark the humanitarian service of the late Major General William C. Gorgas, and the beneficent influence of his life and work on mankind throughout the world. Following the thought of President Porras, it has further been decided that this memorial shall take the form of a scientific institute for the study