

(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. Kreeker, 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

of tropical diseases and of preventive medicine.

No better place could have been selected than Panama City, the gateway between the Atlantic and the Pacific, where General Gorgas' well-planned and executed work made possible the building of the Panama Canal.

It is hardly necessary to call the attention of the medical profession to the far-reaching effects of General Gorgas' work on the welfare of the people of the whole world, especially in tropical and semitropical climates, and in all places subjected to the inroads of infectious disease.

We of the medical profession remember him as our surgeon general during the early part of the World War. We remember his prompt recognition of the necessity of bringing into active service large numbers of physicians and surgeons from civilian life. We remember his genial and kindly nature, his high character, and his steadfast effort directed toward the organization and equipment of the medical corps of the Army. We remember the patriotic response. We remember him as a great sanitary officer, to whom we wish to pay a lasting tribute.

A central committee has been formed, with Admiral Braisted, retired, ex-president of the American Medical Association, as its president. The American Medical Association has appointed a committee of three to work in accord with the central committee, and through its members this appeal is made to the American medical profession.

The plan is to build at Panama an institute for the study of tropical and infectious diseases, with a hospital, laboratories, departments for research and all other facilities required in an institute of this character, erected and administered according to the most progressive, modern ideals. The Panamanian government, owing to the far-sighted, philanthropic vision of President Porras, has donated the great Santo Tomas Hospital, and also the ground on which it is proposed immediately to construct the buildings as they have been described. Dr. Strong has been appointed the scientific director.

In conjunction with this work in Panama, there will be established in Tuscaloosa, Ala., the Gorgas School of Sanitation for the purpose of training country health workers, sanitary engineers and public health nurses, especially educated to deal with the problems peculiar to the southern states.

An endowment of six and one half million dollars will be required to enable the institute to carry on the work according to the plans which have been formed.

The Republic of Panama has demonstrated its sympathetic and practical interest in this enterprise with splendid liberality. The physicians of our country, and especially the members of the American Medical Association, surely will not disregard the memory of a former president, and will seize the opportunity to make in this respect a contribution of which they will be proud.

The campaign for funds is to be international. A large response is expected from North, Central and South America, since the nations of these countries have been the chief beneficiaries of the labors of General Gorgas. It is fitting that his co-workers of the American medical profession should be requested to respond generously to this appeal. It is hoped that every member of the American Medical Association will make as liberal a subscription as possible. Any sum will be gratefully received. Checks should be drawn to the order of the "Gorgas Fund" and should be mailed to the American Medical Association, 535 North Dearborn Street, Chicago.

SCIENTIFIC NOTES AND NEWS

DR. E. T. WHITTAKER, professor of mathematics in the University of Edinburgh, has been elected a foreign member of the Accademia dei Lincei, Rome.

PROFESSOR W. ROUX, of Halle, has been elected honorary member of the Academy of Medicine at Turin. Professor Roux has presented to the Roux Foundation for research on the mechanics of development the 30,000 marks recently sent him by the St. Louis Emergency Relief Committee for German and Austrian Universities.

PROFESSOR A. N. WHITEHEAD, of Cambridge, has been elected president of the Aristotelian Society for the coming session. He will deliver his inaugural address on November 6.

DR. N. BISHOP HARMAN, of London, has been elected a corresponding member of the Cherbourg Scientific Society, in recognition of his researches into the origin of the facial musculature.

WILLIAM SCHAUS, of the Bureau of Entomology, has been elected an honorary member of the Entomological Society of Brazil in recognition of his extensive work on the butterflies and moths of Brazil.

POSTMASTER GENERAL HUBERT WORK, for-