

(10) 2,022 photographic negatives; (11) 22,000 feet of motion picture film; (12) specimens have been supplied to seven universities and five museums, while of living vertebrates there have been collected and sent to the New York Zoological Park 40 mammals, 207 birds and 119 reptiles; (13) the chief collections of amphibians, reptiles and mammals have been presented to the American Museum of Natural History.

It is interesting, in view of this successful prosecution of research work in the tropics, to consider the actual cost of the entire undertaking. From the beginning to the present time the total income has been \$49,600. This has included the salary of the director, his assistant and chief artist, the steamship fares, entire scientific outfit, boats, tents, bungalow, household expenses, servants, hunters, taxidermists and the general accommodation for the staff of workers. The five expeditions have averaged six and a half months each, with an average of eight staff members, the total average cost of each trip being \$9,920.

THE GALAPAGOS ISLANDS

The seventh expedition of the Department of Tropical Research of the New York Zoological Society was directed to the Galapagos Archipelago, and is known as the Williams Galapagos Expedition. Through the generosity of Mr. Harrison Williams the two hundred and fifty foot steam yacht *Noma* was chartered for the purpose and left March first on a cruise of two and a half months under the direction of William Beebe. The personnel of the party included the regular staff of the Tropical Research Station, Misses Cooper and Rose, Messrs. Tee-Van and Broking, Mr. Hoffman, marine artist, and Mr. Eschrich, taxidermist. Four guests of Mr. Williams, Messrs. Curtis, McKay, Mitchell and Merriam, assisted in making collections. Professor William Morton Wheeler joined the vessel at Panama and will contribute to the scientific reports.

A total distance of nine thousand miles was steamed, and the equator crossed eight times. Twenty-one days were spent on the Galapagos Islands. To the living collections of the New York Zoological Park were added nine mammals, twenty-seven birds, and forty-two lizards, notable among which were flightless cormorants, Galapagos penguins and hawks, and giant marine and land iguanas peculiar to the Archipelago and never before exhibited alive. For the American Museum there was collected material for two lizard groups, *Amblyrhynchus* and *Conolophus*, including vegetation, rocks, shells, photographs and sketches, together with a giant tortoise, eighteen lizards and a family of sea-lions.

Among other material gathered were 90 water colors, 400 photographs, 11,000 feet of moving pic-

ture film and many thousands of vertebrates and invertebrates. These will be studied by various specialists, while the general account of the trip by William Beebe will be published this autumn in book form by G. P. Putnam's Sons, under the auspices of the Zoological Society.

HENRY FAIRFIELD OSBORN,
President of the Zoological Society

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

PLANS FOR THE SEVENTY-FIFTH ANNIVERSARY MEETING

MEMBERS of the local committee for the approaching Cincinnati meeting of the American Association for the Advancement of Science and members of its subcommittees have been named as follows:

Louis T. More, chairman of the Local Committee.
Thomas Quinlan, Subcommittee on Hotels and Transportation.

E. D. Gilman and L. T. More, Subcommittee on Meeting Places.

R. E. Oesper, Subcommittee on Exhibits.

N. M. Fenneman, Subcommittee on General Program.

C. N. Moore and W. H. Bucher, Subcommittee on Publicity.

George Warrington, Subcommittee on Hospitality and Reception.

H. S. Fry, Subcommittee on Dinners and Society Hotel Headquarters.

E. D. Gilman, Secretary of the Local Committee.

Daniel Laurence, Treasurer of the Local Committee.

Preparations for the meeting are going forward in a very satisfactory way and a very good set of arrangements for serving the various sections and societies has been worked out. The following local representatives for the sections have been named:

Section A, Louis Brand.

Section B, S. J. M. Allen.

Section C, H. S. Fry.

Section D, E. I. Yowell.

Section E, O. C. von Schlichten.

Section F, E. C. Day.

Section G, H. M. Benedict.

Section H, H. McE. Knowler.

Section I, B. B. Breese.

Section K, E. E. Eubank.

Section L, E. M. Lostpeich.

Section M, R. S. Tour.

Section N, Henry Page.

Section O, Wendell Paddock.

Section Q, A. L. Hall-Quest.

Each section representative is to act for the special societies in his field and all inquiries and requests concerning sessions, meeting places, etc., from the societies, as well as from section organizations, should

be made directly to the proper section representative or representatives. If societies have named special local representatives other than the local representatives of their section, these special society representatives should consult with the proper section representative in all cases. It is not necessary, however, that the special societies that are to take part in the Cincinnati meeting should name special local representatives. The attention of the secretaries of sections and societies is especially called to this arrangement, which promises to avoid some of the confusion that has sometimes occurred in the preliminary work for past annual meetings.

The Hotel Sinton is to be the general headquarters hotel for the association as a whole. This hotel has promised exceptionally good features and offers attractive prices. It will be able to accommodate a large number of those who will attend the meeting. All rooms are provided with bath and the prices are to be \$3.00–\$5.00 per day for single rooms and \$5.00–\$7.00 per day for double rooms. Headquarters hotels for the several societies are to be arranged for through the local representatives for the proper sections. The Hotel Sinton can accommodate a number of societies and there are other excellent hotels in Cincinnati from among which society headquarters may be selected. Society officers should correspond with their section representative in this regard, as well as in regard to arrangements for sessions. The same plan also applies to arrangements for society dinners and smokers.

The section representatives, who will have charge of all details for the sections and societies, will be in constant and direct communication with the subcommittees and with the general local committee itself, and information of all kinds may be secured by writing to the proper section representative. These representatives and the members of the local committee and its subcommittees are to be addressed in care of the chairman of the local committee, Dr. Louis T. More, University of Cincinnati, Cincinnati, Ohio.

The privilege of reduced railway rates for the Cincinnati meeting has been granted for most of the country, according to the certificate plan, which has been in operation at recent annual meetings. Those going to Cincinnati are to purchase regular one-way tickets and are to secure from the railway agent, when tickets are purchased, one-way certificates properly filled out by the agent. These certificates, upon being properly endorsed and validated in the registration room, will allow their holders to purchase return tickets at one half of the regular rates. Those residing in the Pacific region will this year have this privilege, which has not been available to them for recent meetings.

All sessions of the third Cincinnati meeting will be held in the buildings of the University of Cincinnati

and of the Hughes High School, which is situated adjacent to the campus. The council of the association will hold its main meeting on the afternoon of Thursday, December 27, and the meeting will be opened on the evening of that day, under the presidency of Dr. Charles D. Walcott, secretary of the Smithsonian Institution. The main address at this session will be given by the retiring president of the association, Dr. J. Playfair McMurrich, professor of anatomy in the University of Toronto. The second annual Sigma Xi lecture will be delivered on Friday evening, December 28, under the joint auspices of the Society of Sigma Xi and the American Association for the Advancement of Science. The speaker will be Dr. Willis R. Whitney, of the General Electric Company.

The Cincinnati meeting will be specially interesting and important on account of its being the seventy-fifth anniversary of the founding of the association. One of the evening sessions will probably be devoted to the development of American science during the three quarters of a century since the founding of the association. Further details will be announced from time to time in the pages of *SCIENCE*, and the preliminary announcement of the meeting will be mailed about December 1 to all whose names occur on the association roll at that time.

BURTON E. LIVINGSTON,
Permanent Secretary

SCIENTIFIC EVENTS

MAGNETIC OBSERVATIONS DURING THE TOTAL SOLAR ECLIPSE

SPECIAL magnetic and allied observations will be made at stations inside and outside the shadow belt of the total solar eclipse of September 10, 1923, by the Department of Terrestrial Magnetism of the Carnegie Institution of Washington, and by various co-operating magnetic observatories, institutions and investigators.

The magnetic observatories, either within or near the limits of the eclipse, are: *North of the belt of totality*, Sitka, Alaska; Meanook, Alberta; Tucson, Arizona; Agincourt, Ontario; Cheltenham, Maryland, and Vieques, Porto Rico; *to the south of the belt of totality*, Honolulu, Hawaii; Cuajimalpa, Mexico, and Huancayo, Peru; *while just outside the limits of the eclipse at beginning and ending* are Kakioka, Japan, and La Quiaca, Argentina. Of the observatories, the one at Tucson is particularly well situated, being only about 200 miles from the central path of the eclipse; the maximum obscuration at Tucson will be about 92 per cent. It is planned that the Department of Terrestrial Magnetism will have parties at two stations within the belt of totality to make magnetic and