

Models showing typical in the development of the human embryo. Department of Embryology, Carnegie Institution of Washington.

In addition to these papers the Ecological Society of America contributed the following papers to the joint program held on the evening of December 27:

*The hydrogen ion concentration of the sea water of Puget Sound and the reactions of the herring (Clupea pallasii Cuvier) to hydrogen concentration in sea water:* EDWIN B. POWERS, Colorado College.

The PH of Puget Sound in the vicinity of Friday Harbor varies with other conditions, tides, depths and locality. The herring reacts positively to a PH of 7.9 to 8.0. The reaction is positive to this PH concentration both from a lower and a higher PH.

*Ecological investigations under the federal government:* HARRY C. OBERHOLSER, National Museum.

The most important ecological investigation under federal government auspices are carried on as a basis for other work, and are of far-reaching importance. The Fish Commission studies the relation of fishes to their environment; the Forest Service that of trees; the Bureau of Plant Industry of various other plants, particularly with regard to plant diseases and plant introductions; the Bureau of Animal Industry, the life history of internal animal parasites; the Bureau of Entomology, the life history of insects in their relation to economic problems; and the Biological Survey, the relations of animals, birds and other animals to their environment and to each other, for the determination of the life zones of distribution.

*The distribution of the internal parasites of the fish and other aquatic vertebrates of Oneida Lake, New York:* HENRY S. PRATT, Haverford College.

An important feature of the meeting was the conference between government and laboratory zoologists on Saturday afternoon. Subject: Methods of securing Better Cooperation between Government and Laboratory Zoologists in the Solution of Problems of General or National Importance; Professor C. E. McClung, presiding.

Papers on plans and problems of the Bureau of Entomology that can be furthered by cooperation with laboratory zoologists: Dr. L. O. Howard.

Discussion led by Professor J. C. Needham, Cornell University.

Paper from the Bureau of Fisheries: Dr. Hugh Smith.

Discussion led by Professor H. B. Ward, University of Illinois.

Paper from the Bureau of Animal Industry: Dr. B. H. Ransom.

Discussion led by Professor Herbert Osborn, Ohio State University.

Paper from the Biological Survey: Dr. E. W. Nelson.

Discussion led by Professor R. K. Nabours, Manhattan, Kansas.

Plans of National Research Council for advancing American Research: Dr. J. C. Merriam, vice-chairman, National Research Council.

Concluding discussion and proposal of definite plans: Professor C. E. McClung.

The proceedings of the conference will be published in full in a later issue of SCIENCE.

#### THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, SECTION F, ZOOLOGY

THE Convocation Week meetings of Section F were held in conjunction with those of The Society of American Zoologists at Baltimore, Maryland, December 26-28.

At the business session, Bennett M. Allen, Lawrence, Kansas, was elected member of the council; J. H. Gerould, Hanover, N. H., was chosen member of the General Committee; Herbert Osborn, Columbus, Ohio, was reelected member of Sectional Committee for five years, and W. M. Wheeler, Bussey Institution, was elected vice-president of the section for 1919.

In the absence of the secretary H. V. Neal in Y. M. C. A. service in Italy, the secretary of the zoologists, W. C. Allee, Lake Forest, Ill., acted as secretary for the meeting.

W. C. ALLEE,  
Secretary

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