

months, except for one or two return flights to deliver supplies.

A botanical expedition to Guatemala will be conducted by Paul C. Standley, curator of the herbarium, who will leave Chicago about the beginning of November. It is planned to spend approximately five months in the field, gathering herbarium material, for use in preparation of a flora of Guatemala, similar to that of Costa Rica, which is now in course of publication. Guatemala's vegetation is more varied in type than that of any other Central American country, although not so rich in species as that of Costa Rica.

### THE WARSAW CONFERENCE ON MODERN PHYSICS

A CONFERENCE on the new theories in modern physics was held in Warsaw from May 29 to June 2 on the proposal of Professor Bialobrzeski, of the University J. Pilsudski, member of the International Committee of Intellectual Cooperation. It was organized by the International Institute with the help of the Polish Government and the Polish Committee of Intellectual Cooperation. Scientific men from various parts of the world attended the meeting and several reports were discussed which will be shortly published by the institute.

The complete list of participants follows: C. Bialobrzeski, the University J. Pilsudski; E. Bauer, the Collège de France; Niels Bohr, the University of Copenhagen; L. Brillouin, Collège de France; L. de Bröglie, the University of Paris; C. Darwin, the University of Cambridge; Sir Arthur Eddington, the University of Cambridge; R. H. Fowler, the University of Cambridge; G. Gamow, the George Washington University; S. Goudsmit, Princeton University; E. Hylleraas, University of Oslo; O. Klein, University of Stockholm; H. A. Kramers, the University of Leyden; L. de Kronig, University of Groningen; P. Langevin, Collège de France; Ch. Moeller, the University of Copenhagen; J. von Neumann, Princeton University; F. Perrin, the University of Paris; L. Rosenfeld, the University of Liège; W. Rubinowicz, the Jean Casimir University at Lwow; S. Szczeniowski, the Etienne Batory University at Wilno; J. Weissenhof, the Jagellonne University at Krakow; L. Wertenstein, the Free University of Warsaw; E. P. Wigner, Princeton University; F. J. Wisniewski, the Polytechnic School of Warsaw.

The following reports were presented and discussed:

(1) The necessity of the indeterminist interpretation of the formal structure of the quantic mechanics; value of the proof of indeterminism, J. v. Neumann; objections against the complete character of the theory of quanta; process of measurement as a *sui generis* phenomenon having an indeterminist character, Professor Niels Bohr.

(2) Questions concerning the relations between the quantic mechanics and the theory of relativity, Professor L. de Bröglie.

(3) Limits of the applicability of the present system of theoretical physics (nature of the elementary particles, action of the particles of great energy). Difficulties in what concerns the quantic theory of the electromagnetic field, Professor Kramers.

(4) Problem of the individuality of elementary particles and its relation to quantic statistics and the postulate of Pauli, Professor L. Brillouin.

(5) Cosmological applications of the theory of quanta, Professor Sir Arthur Eddington.

(6) The positivist and realist currents in the philosophy in physics, Professor Langevin.

Apart from the scientific work of the conference, a number of excursions were organized to Krakow and Zakopane.

### THE ASHEVILLE MEETING OF THE FISHERIES AND CONSERVATION SOCIETIES

REPRESENTATIVES of forty-six states attended the combined meetings of the International Association of Game, Fish and Conservation Commissioners, the American Fisheries Society and the National Planning Council of Commercial and Game Fish Commissioners held at Asheville, N. C., during the week of June 20. June 20 and 21 were devoted to the convention of the International Association, June 22 to the annual meeting of the National Planning Council, and June 23 and 24 to the sessions of the American Fisheries Society. Saturday was reserved for a field trip to the Pisgah National Game Preserve to inspect the cooperative trout rearing station maintained by the United States Bureau of Fisheries, and Forest Service demonstrations of stream improvement work, fish cultural and fawn rearing activities.

Arthur L. Clarke, superintendent of fisheries of the Missouri Fish and Game Department, was elected president of the International Association to succeed Frank B. O'Connell. Other officers of the association include J. D. Chalk and Seth Gordon as first and second vice-presidents; R. P. Holland, secretary-treasurer, and Talbott Denmead, general counsel.

The morning session of the meeting of the National Planning Council of Commercial and Game Fish Commissioners was devoted to problems of interest to the Biological Survey, which has been included in the membership of the council since April, 1937.

Some thirty papers made up the varied program which was arranged for the members of the American Fisheries Society. The papers were grouped under the general subjects of fish management, fish culture, research studies and miscellaneous topics. Nine papers on various technical problems of fishery research were read.