

includes the lake of that name for the preservation of numerous indigenous and migratory waterfowl, of which thirty-three resident species and thirty-one migratory species have been identified.

It is of interest to hear that the reservation of other sanctuaries is under consideration. The only cause for alarm is the warden's statement that "there is at present no co-ordination between the civil authorities who are responsible for the issue of fire-arms and ammunition, and the Forest Department which is mainly responsible for the protection of wild animals and birds". It is to be hoped that this defect in a far-sighted policy may be removed.

## IRISH FISHERIES

THE quantity of sea fish landed in Eire during 1939 was larger than that landed in any year since 1931, and its value reached the highest figure since 1929 (Department of Agriculture (Fisheries Branch). Report on the Sea and Inland Fisheries for the Year 1939. Dublin, Published by the Stationery Office). The increased landings in 1939 were due to heavier catches of demersal fish by the stream trawlers operating from Dublin, and of mackerel by inshore fishermen on the County of Kerry coast-line. The total catch of whiting in 1939 seems to be the highest recorded for the country, and landings of prime fish, cod and hake, were the heaviest for several years. The quantitative yield of the herring fisheries was less in 1939 than in 1938, but its total value was greater by £5,000. The decrease in quantity was due to the failure of the summer fishery of the north-west coast. The substantial increase in the mackerel landings was due to heavier catches in the autumn mackerel fishing off the south-west coast.

The S.S. *Muirchu* took part during the year in scientific cruises off the north and south-west coasts of Ireland. The cruise off the south-west coast was undertaken in April 1939 for the purpose of continuing the mackerel investigations begun in 1938 in collaboration with the English and French research vessels. As in the previous year mackerel eggs were found in large numbers in an area thirty to seventy miles south to south-south-west of the Fastnet Light. Hydrographic and plankton observations were the main purposes of the cruise off the north coast.

In the inland fisheries the salmon fisheries in 1939 improved but slightly in quantity compared with the years 1937 and 1938, both of which were bad years also for other countries in Western Europe. There was a lack of small and large spring fish such as have spent two or three years respectively in the sea. This was partly compensated for in some parts of the country and particularly in the west by a very good run of grilse.

Artificial propagation of salmon and trout continues, but owing to weather conditions the quantity of ova available was below normal. At the brown trout hatchery at Lough Owel, in spite of weather, there was a record output of 560,000, some of which were returned to the Lough in the fry stage and others distributed among other stations throughout the country.

Scientific investigations into the age and growth of salmon and other salmon researches are in progress. Seventeen appendixes, mainly statistical, are included in the report.

## FORTHCOMING EVENTS

### Saturday, January 3

JOINT MEETING OF TECHNICAL INSTITUTIONS arranged at the request of the Mines Department (in the H. H. Wills Laboratory, Royal Fort, Bristol), at 2.30 p.m.—Discussion on the Best Ways and Means of Improving the Efficient Use of Fuel and Power in Existing Industrial Plants, under Present Conditions, and to Invite Constructive Suggestions. (To be opened by Mr. J. G. Bennett.)

### Monday, January 5

SOCIETY OF CHEMICAL INDUSTRY (FOOD GROUP) (at the Chemical Society, Burlington House, Piccadilly, London, W.1), at 2.30 p.m.—Dr. C. A. Freak: "Insecticides".

ROYAL GEOGRAPHICAL SOCIETY (at Kensington Gore, London, S.W.7), at 3 p.m.—Mr. Patrick FitzGerald: "The Lake Basin of Tali, Yunnan".

### Thursday, January 8

TOWN AND COUNTRY PLANNING ASSOCIATION (in the Dome Lounge, Dickins and Jones, 224 Regent Street, London, W.1), at 1.20 p.m.—Mr. George Hicks, M.P.: "The Part of the Ministry of Works in Post-War Reconstruction".

### Saturday, January 10

BRITISH INSTITUTION OF RADIO ENGINEERS (at the Federation of British Industries, 21 Tothill Street, London, S.W.1). Dr. W. Wilson: "Recent Developments in the Design and Application of the Cathode Ray Oscillograph".

## APPOINTMENTS VACANT

APPLICATIONS are invited for the following appointments on or before the dates mentioned:

EDUCATIONAL PSYCHOLOGIST in connexion with the Child Guidance Clinic—The Director of Education, Education Offices, 15 John Street, Sunderland (January 9).

LIBRARIAN (WOMAN)—The Principal's Secretary, Royal Holloway College, Englefield Green, Surrey (January 10).

ELECTRICAL ENGINEER under the Engineer-in-Chief—The Secretary, Tyne Improvement Commission, Newcastle-upon-Tyne 1 (endorsed 'Electrical Engineer') (January 12).

RESEARCH ASSISTANT TO UNDERTAKE WORK ON HOT-TINNING—The Secretary, Tin Research Institute, Fraser Road, Greenford, Middlesex (January 17).

HEAD OF THE PHYSICS DEPARTMENT—The Principal and Clerk to the Governing Body, Wigan and District Mining and Technical College, Wigan (January 17).

EDUCATIONAL PSYCHOLOGIST, a MEDICAL DIRECTOR and PSYCHIATRIST, and a PSYCHIATRIC SOCIAL WORKER, in connexion with a Child Guidance Clinic—The Director of Education, Municipal Building, Preston (January 17).

GARDINER CHAIR OF CHEMISTRY—The Acting Secretary, University Court, The University, Glasgow (February 8).

## REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

### Great Britain and Ireland

Tin Research Institute. Publication No. 106: The Longitudinal Rigid Structure in the Tin Coating of Tinplate. By Dr. B. Chalmers and W. E. Hoare. Pp. 8+1 plate. (Greenford: Tin Research Institute.) [1012]

### Other Countries

Smithsonian Miscellaneous Collections. Vol. 99, No. 22: The Ice Age Problem. By Walter Knoche. (Publication 3633.) Pp. ii+5. (Washington, D.C.: Smithsonian Institution.) [2511]

Transactions of the San Diego Society of Natural History. Vol. 9, No. 27: The Distribution of Pocket Gophers in Southeastern California. By John E. Chattin. Pp. 265-284. (San Diego, Calif.: San Diego Society of Natural History.) [312]

University of California Publications in Zoology. Vol. 44, No. 2: A Field Study of the Growth and Behaviour of the Fence Lizard. By Henry S. Fitch. Pp. 151-172. 25 cents. Vol. 44, No. 3: Speciation in the Avian Genus Junco. By Alden H. Miller. Pp. 173-434. 3 dollars. (Berkeley, Calif.: University of California Press; London: Cambridge University Press.) [312]

Smithsonian Miscellaneous Collections. Vol. 99, No. 23: Evidences of Early Occupation in Sandia Cave, New Mexico, and other Sites in the Sandia-Manzano Region. By Frank C. Hibben. With Appendix on Correlation of the Deposits of Sandia Cave, New Mexico, with the Glacial Chronology, by Kirk Bryan. (Publication 3636.) Pp. vi+64+15 plates. (Washington, D.C.: Smithsonian Institution.) [312]

Records of the Botanical Survey of India. Vol. 14, No. 2: A Revision of the Indo-Malayan Species of *Glycosmis correa*. By V. Narayanaswami. Pp. v+72+ii. (Delhi: Manager of Publications.) 4.6 rupees; 7s. [412]

Indian Forest Records (New Series.) Botany, Vol. 2, No. 2: *Thyrsoctachys oliveri* Gamble. By Dr. N. L. Bor. Pp. 217-226+2 plates. 10 annas; 1s. Entomology, Vol. 6, No. 9: Immature Stages of Indian Lepidoptera (3). By J. C. M. Gardner. Pp. 297-314+1 plate. 12 annas; 1s. (Delhi: Manager of Publications.) [412]