

## FORTHCOMING EVENTS

Saturday, November 18

**QUEKETT MICROSCOPICAL SOCIETY** (at the Royal Society, Burlington House, Piccadilly, London, W.1), at 2.30 p.m.—Papers.

**SHEFFIELD METALLURGICAL ASSOCIATION** (at 198 West Street, Sheffield, 1), at 2.30 p.m.—Mr. R. A. Hacking: "Technical and Economic Problems in the Heavy Iron and Steel Industry".

Monday, November 20

**ROYAL SOCIETY OF ARTS** (at John Adam Street, Adelphi, London, W.C.2), at 1.45 p.m.—Prof. E. Capstick: "Milk", (1) "Dairy Education and Technological Training" (Cantor Lecture).

**INSTITUTION OF ELECTRICAL ENGINEERS** (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Discussion on "The Effect of Welding on Electricity Supply" (to be opened by Dr. H. G. Taylor).

**ROYAL GEOGRAPHICAL SOCIETY** (at Kensington Gore, South Kensington, London, S.W.7), at 8 p.m.—Mr. S. H. Beaver: "Minerals and Planning".

Tuesday, November 21

**ROYAL SOCIETY OF ARTS (DOMINIONS AND COLONIES SECTION)** (at John Adam Street, Adelphi, London, W.C.2), at 1.45 p.m.—Prof. Daryll Forde: "Social Development in Africa and the Work of the International African Institute".

**ROYAL INSTITUTION** (at 21 Albemarle Street, Piccadilly, London, W.1), at 5.15 p.m.—Mr. F. C. Bawden: "Plant Viruses and Virus Diseases", (i) "The Behaviour of Viruses in Infected Plants".

**INSTITUTION OF CIVIL ENGINEERS (RAILWAY ENGINEERING DIVISION)** (at Great George Street, Westminster, London, S.W.1), at 5.30 p.m.—Mr. Hugh O'Neill: "Metallurgical Studies of Rails".

**INSTITUTION OF ELECTRICAL ENGINEERS (RADIO SECTION)** (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Discussion on "New Aspects of Post-War Interference Suppression" (to be opened by Mr. P. R. Coursey).

Wednesday, November 22

**ROYAL SOCIETY OF ARTS** (at John Adam Street, Adelphi, London, W.C.2), at 1.45 p.m.—Prof. I. M. Heilbron, F.R.S.: "The New Insecticidal Material D.D.T." (Aldred Lecture).

**INSTITUTE OF FUEL (MIDLAND SECTION)** (at the James Watt Memorial Institute, Birmingham), at 2.30 p.m.—Mr. A. Stirling: "The Practical Aspects of Reheating and Heat Treatment Furnace Insulation".

**PHYSICAL SOCIETY (COLOUR GROUP)** (in the Physics Department of the Imperial College, Imperial Institute Road, South Kensington, London, S.W.7), at 3.30 p.m.—Mr. E. N. Willmer: "Retinal Structure and Colour Vision".

**INSTITUTE OF FUEL (NORTH-WESTERN SECTION)** (joint meeting with the LIVERPOOL ENGINEERING SOCIETY) (at the Municipal Annexe, Dale Street, Liverpool).—Dr. A. C. Dunningham and Mr. B. M. Thornton: "Mechanical Stokers for Shell Type Boilers" (Précis and Discussion).

Thursday, November 23

**ROYAL INSTITUTION** (at 21 Albemarle Street, Piccadilly, London, W.1), at 2.30 p.m.—Prof. James Gray, F.R.S.: "Locomotory Mechanisms in Vertebrate Animals", (i) "Aquatic Locomotion—Fins as Propellers, Brakes and Mechanisms of Directional Control".

**LINNEAN SOCIETY OF LONDON** (joint meeting with the ZOOLOGICAL SOCIETY OF LONDON) (at Burlington House, Piccadilly, London, W.1), at 3.15 p.m.—Dr. Maria Skalińska: "Polyploidy in *Valeriana officinalis* Linn. in relation to Ecology and Distribution"; Mr. R. Winckworth: "From Linnaeus to Lamarck"; Prof. F. Wood-Jones, F.R.S.: "Time and Lamarck" (the Discussion on the Lamarck papers will be opened by Prof. J. B. S. Haldane, F.R.S.).

**PHYSICAL SOCIETY** (at the Royal Society, Burlington House, Piccadilly, London, W.1), at 5 p.m.—Prof. M. N. Saha, F.R.S.: "A Physical Theory of the Solar Corona".

Thursday, November 23—Friday, November 24

**IRON AND STEEL INSTITUTE** (at the Institution of Civil Engineers, Great George Street, Westminster, London, S.W.1).—Discussion on "Blast Furnace Operation and Problems".

Thursday, November 23

At 11.30 a.m.—Discussion on Fuel Consumption.

At 2.45 p.m.—Discussion on Furnace Operation and Problems.

Friday, November 24

At 10.30 a.m.—Discussion on the Preparation of the Burden (with special reference to Ore Beneficiation and Sinter).

At 11.45 a.m.—Discussion on Refractories.

Friday, November 24

**PHYSICAL SOCIETY (OPTICAL GROUP)** (in the Physics Department of Imperial College, Imperial Institute Road, South Kensington, London, S.W.7), at 2.30 p.m.—Mr. E. Wilfred Taylor: "Notes on the Evolution of the Inverting Eyepiece"; Instructor-Captain T. Y. Baker: "Achromatism of two Thin Separated Lenses and of a Cemented Doublet"; Mr. B. K. Johnson: "A New Modification of a Ray Plotter" (demonstration).

**ROYAL INSTITUTION** (at 21 Albemarle Street, Piccadilly, London, W.1), at 5 p.m.—Dr. E. F. Armstrong, F.R.S.: "The Gas Industry—Yesterday and Tomorrow".

**INSTITUTION OF MECHANICAL ENGINEERS** (in conjunction with the MANUFACTURE GROUP) (at St. James's Gate, St. James's Park, London, S.W.1), at 5.30 p.m.—Mr. C. C. Gladman: "Drawing Office Practice in relation to Interchangeable Components".

**INSTITUTE OF FUEL (SCOTTISH SECTION)** (at the Royal Technical College, Glasgow), at 5.45 p.m.—Dr. W. Reid: "The Mining of Coal".

Saturday, November 25

**ASSOCIATION FOR SCIENTIFIC PHOTOGRAPHY** (joint meeting with the SCIENTIFIC AND TECHNICAL GROUP OF THE ROYAL PHOTOGRAPHIC SOCIETY) (at 16 Princes Gate, South Kensington, London, S.W.7), at 3 p.m.—Mr. G. Parr: "The Electron Microscope"; Dr. E. M. Crook and Mr. L. V. Chilton: "Photographic Materials for use in the Electron Microscope"; Dr. D. G. Drummond: "Applications of Electron Micrography in Textile Research".

## APPOINTMENTS VACANT

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

**CHEMICAL ENGINEER** by an important Engineering Company in the Midlands—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. C.2195.XA) (November 28).

**SCIENTIFIC OFFICER** (temporary) to take charge of the MATHEMATICAL and COMPUTATIONAL WORK of the Admiralty Computing Service—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. A.702.A) (November 28).

**WATER ENGINEER**—The Clerk to the Trowbridge, Melksham and District Water Board, 22 Silver Street, Trowbridge (endorsed "Water Engineer") (November 30).

**SPEECH THERAPIST**—The Director of Education, Education Office, 8 City Square, Dundee (December 1).

**DEMONSTRATOR IN HUMAN PHYSIOLOGY**, and an **ASSISTANT KEEPER** to be responsible for the Zoological Collections in the Manchester Museum—The Registrar, The University, Manchester 13 (December 1).

**ENGINEER** (Water Supplies) by the Gold Coast Government Public Works Department—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. E.1094.A) (December 11).

**AGRICULTURAL SCIENTIFIC OFFICERS** (temporary) on the staff of the National Institute of Agricultural Engineering, Yorks.—The Ministry of Labour and National Service, Room 432, Alexandra House, Kingsway, London, W.C.2 (quoting Reference No. F.3066.A) (December 11).

**GEOPHYSICIST** (temporary), a **GEOLOGIST** (established), and a **GEOLOGIST** (temporary), on the staff of the Geological Survey, Department of Industry and Commerce—The Secretary, Civil Service Commission, 45 Upper O'Connell Street, Dublin (December 20).

**TECHNICAL ASSISTANT IN THE ELECTRICITY DEPARTMENT**—The General Manager, Electricity Office, Finsbury, Hull (January 1).

**LIBRARIAN**—The Secretary, Society of Antiquaries of London, Burlington House, Piccadilly, London, W.1 (January 31).

**CHAIR OF ENGINEERING**—The Secretary, The University, Aberdeen (March 31).

**SENIOR LABORATORY ASSISTANT IN THE DEPARTMENT OF ZOOLOGY**—The Secretary, Bedford College for Women, Regent's Park, London N.W.1.

**PRINCIPAL OF THE MERRIST WOOD FARM INSTITUTE**, Guildford—The Chief Education Officer, County Hall, Kingston-upon-Thames, Surrey.

**RESEARCH WORKER** on the nature and composition of the anti-anæmic principle in liver, and a **RESEARCH WORKER** to prepare and employ purified or crystalline digestive fermentes—The Courtauld Institute of Biochemistry, Middlesex Hospital, London, W.1.

**HYDROGRAPHICAL SURVEYOR** for the Basrah Port Directorate, Iraq—The Ministry of Labour and National Service, Appointments Department, Sardinia Street, Kingsway, London, W.C.2 (quoting Reference No. A.4962.S).

**TEACHER FOR PHYSICS AND CHEMISTRY**—The Acting Principal, Technical Institute, Sheerness, Kent.

**HORTICULTURAL ADVISER** (man) and an **ASSISTANT HORTICULTURAL ADVISER** (man or woman)—The Chief Education Officer, County Hall, Kingston-upon-Thames, Surrey.

## REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

## Great Britain and Ireland

**Social Insurance. Part 2: Workmen's Compensation. Proposals for an Industrial Injury Insurance Scheme.** (Cmd. 6551.) Pp. 32. (London: H.M. Stationery Office.) 3d. net. [289]

**Science in Post-Primary Education with reference to the Scientific Education in Schools of Pupils of 11-18 and its relation to their subsequent Training in Universities and Colleges. Interim Report of a Sub-Committee of the Association of Women Science Teachers.** Pp. vi+22. (London: John Murray.) 1s. 3d. net. [210]

**Re-Educating Scotland.** Edited by Naomi Mitchison, Robert Britton and George Kilgour. (Published for Scottish Convention.) Pp. 48. (Glasgow: Scoop Books, Ltd.) 1s. 6d. [210]

## Other Countries

**Bashford Dean Memorial Volume. Archaic Fishes.** Edited by Eugene Willis Gudger. Article 7: The Breeding Habits, Reproductive Organs and External Embryonic Development of *Chlamydoselachius*, based on Notes and Drawings by Bashford Dean. By E. W. Gudger. Pp. 521-634+6 plates. Article 8: The Heterodontid Sharks; their Natural History, and the External Development of *Heterodontus japonicus*, based on Notes and Drawings by Bashford Dean. By Prof. Bertram G. Smith. Pp. 647-743+7 plates. (New York: American Museum of Natural History.) [49]

**Smithsonian Institution. War Background Studies, No. 20: China.** By A. G. Wenley and John A. Pope. (Publication 3770.) Pp. v+85+25 plates. (Washington, D.C.: Smithsonian Institution.) [49]