

## Forthcoming Events

Monday, April 19

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Captain A. DUNLOP: "The Dadessa Valley".

Tuesday, April 20

INSTITUTION OF CIVIL ENGINEERS, at 6.—Prof. S. M. Dixon, G. Fitzgibbon and M. A. Hogan: "The Flow of the River Severn, 1921-1936".

Thursday, April 22

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Prof. J. Chadwick, F.R.S.: "The Elementary Particles of Matter" (Kelvin Lecture).

Friday, April 23

ROYAL INSTITUTION, at 9.—Prof. H. Mark: "The Synthesis of Large Molecules".

INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS, April 19-24.—Second International Congress to be held in London.

Sir William Bragg: President.

FARADAY SOCIETY, April 22-24.—General discussion on "The Properties and Functions of Membranes, Natural and Artificial" to be held in University College, Gower Street, London, W.C.1.

## Appointments Vacant

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

LECTURER IN CHEMISTRY in the Woolwich Polytechnic, London, S.E.18—The Secretary (April 20).

ASSISTANTS (grade II) at the Royal Aircraft Establishment, South Farnborough, Hants.—The Chief Superintendent (April 23) (quote Ref. 342/B).

ASSISTANT INVESTIGATOR (roof control and haulage) for the Safety in Mines Research Board—The Under-Secretary for Mines, Establishment Branch, Mines Department, Dean Stanley Street, S.W.1 (April 23).

LECTURER IN MATHEMATICS AND ELEMENTARY PHYSICS in the Polytechnic, Regent Street, London, W.1—The Director of Education (April 26).

LECTURER IN BIOLOGY in the Polytechnic, Regent Street, London, W.1—The Director of Education (April 26).

RESEARCH CHEMIST for the Bone Research and Development Association, Ltd.—Prof. W. A. Bone (April 26).

ASSISTANT INVESTIGATOR for the Safety in Mines Research Board—The Under-Secretary for Mines, Establishment Branch, Mines Department, Dean Stanley Street, London, S.W.1 (April 27).

SCIENTIFIC OFFICERS and ASSISTANTS (grades I, II and III) in the Chemical Defence Research Department, 14 Grosvenor Gardens, S.W.1—The Chief Superintendent (April 28).

ASSISTANT (grade II, aeronautical materials) at the Royal Airship Works, Cardington, Bedford—The Superintendent (April 30) (quote Ref. B. 352).

JUNIOR SCIENTIFIC OFFICER in the Headquarters Office of the Department of Scientific Research, 16 Queen Street, S.W.1—The Establishment Officer (April 30) (quote J. 37/9).

THREE TECHNICAL OFFICERS (electrical engineering), ONE ASSISTANT (grade II, physics or electrical engineering), and TWO ASSISTANTS (grade III, physics or electrical engineering), in the Signals Experimental Establishment, Woolwich Common, S.E.18 (April 30).

PROFESSOR OF ORGANIC CHEMISTRY in the Egyptian University, Abbassia, Cairo—The Dean of the Faculty of Science (April 30).

ASSISTANT VETERINARY OFFICER for the Essex County Council—The Clerk of the Council, County Hall, Chelmsford (May 1).

LECTURER IN MECHANICAL ENGINEERING in the Derby Technical College—The Clerk to the Governors (May 10).

JUNIOR ENGINEER at the E.M.I. Laboratories—Electric and Musical Industries, Ltd., Employment Department, Hayes, Middlesex.

TEMPORARY ASSISTANT ENGINEERS, ENGINEERING ASSISTANTS, and JUNIOR ENGINEERING ASSISTANTS for trunk road survey of the Ministry of Transport—The Establishment Officer, Ministry of Transport, Whitehall Gardens, S.W.1.

## Official Publications Received

Great Britain and Ireland

The Teaching of Science in the Education of the Citizen. By Prof. Lancelot Hogben. Pp. 16. (London: National Union of Teachers.) [233]

The Second Conference on Mechanized Farming, Rhodes House, Oxford, January 5-8, 1937. Report of Discussions. Pp. 37. (Oxford: Institute for Research in Agricultural Engineering.) [243]

The Ramblers' Federation Handbook: Official Year-Book of the Ramblers' Federation (Manchester and District) for 1937. Vol. 4. Pp. 81-164+10 plates. (Manchester: E. Royce, 5 Byrom Avenue.) 1s. net. [303]

The Journal of the Institute of Metals. Vol. 59. Edited by G. Shaw Scott. Pp. 323+22 plates. (London: Institute of Metals.) 31s. 6d. [313]

The Future of our Population? By Dr. C. P. Blacker and D. V. Glass. Pp. 31. (London: Population Investigation Committee.) 6d. [313]

National Smoke Abatement Society. Proceedings of the Conference held at the Science Museum, South Kensington, October 1936. Pp. 114. (Manchester: National Smoke Abatement Society.) 2s. [14]

Other Countries

Institut de France: Académie des Sciences. Annuaire pour 1937. Pp. 416. (Paris: Gauthier-Villars.) [253]

U.S. Department of the Interior: Office of Education. Bulletin, 1936, No. 15: Authority of State Executive Agencies over Higher Education. By John H. McNeely. Pp. iii+57. (Washington, D.C.: Government Printing Office.) 10 cents. [253]

Report of the President of the Carnegie Institution of Washington for the Year ending October 31, 1936. Pp. 72. (Washington, D.C.: Carnegie Institution.) [255]

Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 89. The Occurrence of Flints and Extinct Animals in Pluvial Deposits near Clovis, New Mexico. Part 4: Report on Excavation at the Gravel Pit, 1936. By John Lambert Cotter. Pp. 16+7 plates. (Philadelphia: Academy of Natural Sciences.) [303]

Smithsonian Miscellaneous Collections. Vol. 95, No. 21: The Dependence of Carbon Dioxide Assimilation in a Higher Plant on Wave Length of Radiation. By W. H. Hoover. (Publication 3408.) Pp. ii+13+3 plates. Vol. 95, No. 23: On the Corrections to be applied to Silver-Disk Pyrheliometry. By C. G. Abbot. (Publication 3409.) Pp. ii+7. (Washington, D.C.: Smithsonian Institution.) [303]

Bulletins of Indian Industrial Research. No. 6: The Preparation of Alumina and Sulphur Dioxide from Bauxite-Gypsum Mixtures. By Dr. V. S. Dubey, M. B. Rane and M. Kanakaratham. Pp. ii+7. (Delhi: Manager of Publications.) 3 annas; 4d. [303]

Indian Forest Records (New Series). Vol. 2, No. 8: Some New Carabidae from India. By H. E. Andrewes. Pp. ii+177-180. 4 annas; 5d. Vol. 2, No. 9: Immature Stages of Indian Coleoptera (20) (Carabidae). By J. C. M. Gardner. Pp. ii+181-202+4 plates. 1 rupee; 1s. 9d. (Delhi: Manager of Publications.) [303]

Nyasaland Protectorate: Geological Survey Department. Bulletin No. 5: The Chilwa Series of Southern Nyasaland; a Group of Alkaline and other Intrusive and Extrusive Rocks and Associated Limestones. By Dr. F. Dixey, W. Campbell Smith and C. B. Bisset. Pp. 85+7 plates. (Zomba: Government Printer.) 5s. [303]

Carnegie Institution of Washington. Year Book No. 35, July 1, 1935-June 30, 1936, with Administrative Reports through December 11, 1936. Pp. xxxiv+424. (Washington, D.C.: Carnegie Institution.) [303]

Mémoires de la Société géologique et minéralogique de Bretagne. Tome 3: Contributions à l'étude géologique des îles de la Manche et du Trégorrois. Pp. 100+5 plates. (Rennes: Institut de Géologie; Jersey: The Museum.) 30 francs; 5s. [303]

U.S. Department of Agriculture. Circular No. 418: Parasites and Predators of the Mexican Bean Beetle in the United States. By N. F. Howard and B. J. Landis. Pp. 12. (Washington, D.C.: Government Printing Office.) 5 cents. [303]

U.S. Department of Agriculture: Soil Conservation Service. Topsoil: Its Preservation. Pp. 24. (Washington, D.C.: Government Printing Office.) 10 cents. [303]

University of Minnesota: Agricultural Experiment Station. Technical Bulletin 116: Studies on the Freezing Process in Insects. By R. W. Salt. Pp. 41. (Minneapolis: University of Minnesota.) [303]

Obras completas y Correspondencia científica de Florentino Ameghino. Vol. 24: Indices generales. Edición oficial ordenada por el Gobierno de la Provincia de Buenos Aires. Dirigida por Alfredo J. Torcelli. Pp. 732. (La Plata.) [303]

U.S. Department of Agriculture. Miscellaneous Publication No. 256: Early Erosion-Control Practices in Virginia. By A. R. Hall. Pp. 31. (Washington, D.C.: Government Printing Office.) 10 cents. [313]

Geological Survey of Southern Rhodesia. Provisional Geological Map of Southern Rhodesia. Revised edition. 34 in. x 30 in. (Salisbury: Geological Survey of Southern Rhodesia.) [313]

Catalogues, etc.

Catalogue of Important Botanical and Gardening Books (including Floras and Cryptogams). (No. 256.) Pp. 40. (London: Dulau and Co., Ltd.)

The Brown-Firth Research Laboratories. Pp. 72. (Sheffield: Brown-Firth Research Laboratories.)

Médecine et Sciences anciennes. (Bulletin No. 3.) Pp. 16. (Paris: Émile Offenbacher.)