

## FORTHCOMING EVENTS

(Meetings marked with an asterisk \* are open to the public)

### Monday, November 23

ROYAL SOCIETY OF ARTS (at John Adam Street, Adelphi, London, W.C.2), at 6 p.m.—Mr. G. L. Bailey: "Alloys" (Cantor Lecture). (Further Lectures on November 30 and December 7.)

ROYAL GEOGRAPHICAL SOCIETY (at 1 Kensington Gore, London, S.W.7), at 8.15 p.m.—Prof. Frank Debenham: "New Light on Livingstone's Last Journey".

### Tuesday, November 24

COMMUNICATION RESEARCH CENTRE (in the Anatomy Theatre, University College, Gower Street, London, W.C.1), at 5.30 p.m.—Prof. T. B. L. Webster: "Communication of Thought in Ancient Greece".\*

INSTITUTE OF FUEL (at the Institution of Mechanical Engineers, Storey's Gate, St. James's Park, London, S.W.1), at 5.30 p.m.—Dr. F. M. H. Taylor: "The Conservation of the Nation's Fuel and Power Resources".\*

SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS, PHYSICAL METHODS GROUP (at the Chemical Society, Burlington House, Piccadilly, London, W.1), at 6 p.m.—Annual General Meeting; 6.30 p.m.—Dr. J. Haslam: "Physical Methods in the Analysis of Plastic Materials—Some Observations of an Analytical Chemist".

SOCIETY OF INSTRUMENT TECHNOLOGY (at Manson House, 26 Portland Place, London, W.1), at 6.30 p.m.—Mr. R. D. Myles: "Unusual Aspects of Automatic Control in the Chemical Industry".

INSTITUTION OF ELECTRICAL ENGINEERS, LONDON STUDENTS' SECTION (at Savoy Place, London, W.C.2), at 7 p.m.—Mr. B. Z. de Ferranti: "Machines, Animals and Information".

### Tuesday, November 24—Wednesday, November 25

INSTITUTION OF GAS ENGINEERS (at Church House, Westminster, London, S.W.1), at 9.30 a.m. each day—19th Autumn Research Meeting.

### Tuesday, November 24—Thursday, November 26

IRON AND STEEL INSTITUTE (at 4 Grosvenor Gardens, London, S.W.1)—Annual General Meeting followed by Symposium on Sinter.

### Wednesday, November 25

BRITISH COUNCIL FOR REHABILITATION (in association with the UNIVERSITY OF SHEFFIELD, DEPARTMENT OF SOCIAL MEDICINE, in the University Medical Library), at 10 a.m.—Conference on "Can Disabilities be Overcome?"

POSTGRADUATE MEDICAL SCHOOL OF LONDON (at Ducane Road, Shepherd's Bush, London, W.12), at 2 p.m.—Prof. C. Rimington: "orphyrin Metabolism".\*

ROYAL SOCIETY OF ARTS (at John Adam Street, Adelphi, London, W.C.2), at 2.30 p.m.—Mr. C. A. P. Southwell: "Kuwait".

GEOLOGICAL SOCIETY OF LONDON (at Burlington House, Piccadilly, London, W.1), at 5 p.m.—Scientific Papers.

ROYAL STATISTICAL SOCIETY, RESEARCH SECTION (at the London School of Hygiene and Tropical Medicine, Keppel Street, London, W.C.1), at 5.15 p.m.—Mr. F. G. Foster and Mr. A. Stuart: "Distribution-Free Tests in Time Series based on the Breaking of Records".

INSTITUTE OF PHYSICS, EDUCATION GROUP (at 47 Belgrave Square, London, S.W.1), at 5.30 p.m.—Dr. M. R. Gavin: "Electronics in Physics Courses".

INSTITUTION OF ELECTRICAL ENGINEERS, SUPPLY SECTION (at Savoy Place, London, W.C.2), at 5.30 p.m.—Mr. N. Troost: "A New Approach to the Theory and Operation of Electrostatic Precipitators for Use on Pulverized-Fuel-Fired Boilers".

SOCIETY OF CHEMICAL INDUSTRY, PLASTICS AND POLYMER GROUP (joint meeting with the LONDON SECTION OF THE OIL AND COLOUR CHEMISTS ASSOCIATION, at the Royal Society of Tropical Medicine and Hygiene, Manson House, 26 Portland Place, London, W.1), at 7 p.m.—Mr. C. E. Hollis and Mr. J. H. W. Turner: "Vinyl Emulsion Polymers and their Use in Coatings".

### Thursday, November 26

UNIVERSITY COLLEGE, LONDON (in the Anatomy Theatre, Gower Street, London, W.C.1), at 1.15 p.m.—Mr. D. A. Sholl: "The Anatomist and the Brain".\*

### Thursday, November 26—Friday, November 27

ROYAL INSTITUTE OF CHEMISTRY (in the Gas Showrooms (Basement), the Town Hall, Manchester), at 10 a.m. each day—Dalton Exhibition on the Measurement, Use and Application of Radioactive Substances.

### Friday, November 27

INSTITUTE OF METALS (at the Royal Institution, Albemarle Street, London, W.1), at 10.30 a.m.—Informal discussion on "The Training of Metallurgists for Industry".

TEXTILE INSTITUTE (at 10 Blackfriars Street, Manchester 3), at 3 p.m.—Mr. B. M. Sweers (Arnhem): "Economic Aspects of the Textile Industry in Europe" (Emsley Lecture).

ROYAL ASTRONOMICAL SOCIETY (at Burlington House, Piccadilly, London, W.1), at 4.15 p.m.—Geophysical Discussion; Mr. J. Squires, Mr. A. B. Malone, Mr. P. A. Rankin and Dr. S. K. Runcorn: "Airborne Magnetic Surveys". Chairman: Sir Harold Spencer Jones, F.R.S.

BEDSON CLUB (in Lecture Theatre II, The Chemical Laboratories, King's College, Newcastle-upon-Tyne 1), at 5.30 p.m.—Dr. J. R. Kenyon, F.R.S.: "Contributions to Optical Activity to the Study of Some Chemical Reactions".

INSTITUTION OF MECHANICAL ENGINEERS (at Storey's Gate, St. James's Park, London, S.W.1), at 5.30 p.m.—Mr. R. F. Darling: "Fuel Systems and Controls for Marine Gas Turbines"; Mr. B. E. G. Forsling: "Main Propulsion Gas Turbine Set for the Oil Tanker *Auris*".

UNIVERSITY OF LONDON (in the Anatomy Theatre, University College, Gower Street, London, W.C.1), at 5.30 p.m.—Prof. R. Tomaschek: "The Tides of the Solid Earth and their Geophysical and Geological Significance".\* (Further Lecture on November 30.)

ROYAL INSTITUTE OF CHEMISTRY (at the Town Hall, Manchester), at 7 p.m.—Sir John Cockcroft, C.B.E., F.R.S.: "The Development of Radiochemistry and Radiation Chemistry" (Eighth Dalton Lecture).

ROYAL INSTITUTE OF CHEMISTRY, LONDON SECTION (joint meeting with the CAMBRIDGE UNIVERSITY CHEMICAL SOCIETY at the University Chemical Laboratory, Cambridge), at 8.30 p.m.—Prof. W. Baker, F.R.S.: "Some Aspects of the Chemistry of Phenols and Inclusion Compounds".

ROYAL INSTITUTION (at 21 Albemarle Street, London, W.1), at 9 p.m.—Sir Alexander Fleming, F.R.S.: "Antibiotics".

### Saturday, November 28

BOTANICAL SOCIETY OF THE BRITISH ISLES (in the Lecture Hall, British Museum (Natural History), Cromwell Road, South Kensington, London, S.W.7), at 2.30 p.m.—Annual Exhibition Meeting.

BRITISH GLACIOLOGICAL SOCIETY (joint meeting with the SCOTT POLAR RESEARCH INSTITUTE, at the Institute, Lensfield Road, Cambridge), at 8.30 p.m.—Prof. Gordon Manley: "Climatic Fluctuations and the Recent Behaviour of Glaciers".

## APPOINTMENTS VACANT

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

LECTURER (with good honours degree, and postgraduate experience in physical chemistry, and suitable teaching experience) IN PHYSICAL CHEMISTRY, at the Leeds College of Technology—Chief Education Officer, Education Offices, Leeds 1 (November 25).

RESEARCH ASSISTANT IN PSYCHOLOGY to carry out experimental work in the Department of Psychology—The Registrar, The University, Manchester 13 (November 28).

SENIOR SCIENTIFIC OFFICER (with first- or second-class honours degree in physics or physical chemistry) at the Department of Scientific and Industrial Research, Building Research Station, Bucknalls Lane, Garston, near Watford, for work on the flow properties of suspensions—The Ministry of Labour and National Service, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting A.278/53A. (November 28).

ASSISTANT (with honours degree in biochemistry, agricultural chemistry or equivalent qualification) IN AGRICULTURAL BIOCHEMISTRY—The Secretary, The University, Aberdeen (November 30).

PHYSICAL CHEMIST or BIOCHEMIST (with research experience in the fields of enzyme or protein chemistry) in the Department of Medicine, to work under the direction of the newly appointed Nuffield Gerontological Fellow—The Registrar, The University, Leeds 2 (November 30).

ANALYST (with degree in chemistry or agricultural chemistry, and with experience in carrying out analyses on soils, fertilizers and other agricultural materials) IN THE DEPARTMENT OF CHEMISTRY—The Registrar, Wye College, Ashford, Kent (December 5).

LECTURER IN PSYCHOLOGY at the University of Durham—The Secretary, 38 North Bailey, Durham (December 5).

LECTURER IN TEXTILE PHYSICS in the Department of Textile Industries, to undertake research on the structure and physical properties of fibres and related materials, using X-ray, electron microscope, ultra-centrifuge and infra-red techniques—The Registrar, The University, Leeds 2 (December 7).

CHIEF OF THE DIVISION OF ANIMAL HEALTH AND PRODUCTION, Commonwealth Scientific and Industrial Research Organization, Australia, to be responsible for research activities in the fields of animal physiology, animal breeding, bacteriology, pathology and parasitology—The Chief Scientific Liaison Officer, Australian Scientific Liaison Office, Africa House, Kingsway, London, W.C.2, quoting 200/31 (December 12).

RESEARCH OFFICER (Organic Chemist) (with honours degree in science or equivalent qualifications, and research experience in organic chemistry) at the Commonwealth Scientific and Industrial Research Organization, Wool Textile Research Laboratory, Parkville, Melbourne, to participate in an intensive programme of research on the structure of wool as a member of a group engaged in the synthesis of peptides, especially cystine peptides—Chief Scientific Liaison Officer, Australian Scientific Liaison Office, Africa House, Kingsway, London, W.C.2, quoting 464/72 (December 12).

RESEARCH OFFICERS (a) (with university honours degree in science, with chemistry as a major subject, or equivalent qualifications) to undertake physico-chemical studies of systems of importance in the utilization and chemical processing of minerals and their derivatives (Ref. 590/460); (b) (with university honours degree in science, with inorganic or physical chemistry as a major subject) to undertake general investigations on chemical derivatives of certain Australian minerals (Ref. 590/461), at the Commonwealth Scientific and Industrial Research Organization, Minerals Utilization Section, Division of Industrial Chemistry, Fishermen's Bend, Melbourne—The Chief Scientific Liaison Officer, Australian Scientific Liaison Office, Africa House, Kingsway, London, W.C.2 (quoting appropriate Ref. No.) (December 12).

LECTURER IN GEOGRAPHY (Grade 1), and a LECTURER IN MATHEMATICS (Grade 1), at the University of Tasmania—The Secretary, Association of Universities of the British Commonwealth, 5 Gordon Square, London, W.C.1 (December 15).

PROFESSOR OF PHYSICS—The Secretary and Registrar, University College of North Wales, Bangor (December 15).

CHAIR OF PHARMACOLOGY AND THERAPEUTICS—The Registrar, The University, Sheffield 10 (January 1).

RESEARCH ASSISTANT IN THE FLUID MOTION LABORATORY, to carry out experimental research on the aerodynamic noise generated by turbulent flows—The Registrar, The University, Manchester 13 (January 1).

SIR THOMAS LYLE FELLOWSHIP IN PHYSICS at the University of Melbourne, Australia—The Secretary, Association of Universities of the British Commonwealth, 5 Gordon Square, London, W.C.1 (January 4).

ASSISTANT, Grade B (with good honours degree in chemistry and able to teach organic chemistry to final degree standard)—The Clerk to the Governors, South-East Essex Technical College, Longbridge Road, Dagenham, Essex.

ASSISTANT LECTURER (Grade A) IN PHYSICS—The Principal, Borough Polytechnic, Borough Road, London, S.E.1.

BIOCHEMIST (with first- or second-class honours degree in biochemistry, biology or chemistry, and substantial experience in isolation of pure substances from biological materials) at the Ministry of Supply Radiochemical Centre, Amersham, Bucks, to take charge of group engaged in developing biological methods for synthesis of compounds containing carbon-14 and other radioactive isotopes—The Ministry of Labour and National Service, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting F.532/53A.

DEMONSTRATOR, ASSISTANT LECTURER OR LECTURER IN THE DEPARTMENT OF PHYSICS—The Secretary and Registrar, The University, Southampton.

DIRECTOR (with first- or good second-class honours degree in a pure science and considerable postgraduate experience in microbiological research) of THE COLONIAL MICROBIOLOGICAL RESEARCH INSTITUTE, Trinidad—Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, quoting CDE.87/38/01.

GRADUATE IN PHYSICS to assist in research in space and water heating section—The Director, The Electrical Research Association, 5 Wadsworth Road, Greenford, Middlesex.

LECTURER OR ASSISTANT LECTURER IN ANIMAL PHYSIOLOGY in the Department of Zoology—The Secretary and Registrar, The University, Southampton.

PHYSICAL CHEMIST (preferably Ph.D.) for research work on the kinetics of cellulose degradation—The Secretary, British Rayon Research Association, Barton Dock Road, Urmston, Manchester.

PHYSICAL CHEMIST (with good honours degree) for research on wool fibres and problems related to wool processing, especially detergency—The Wool Industries Research Association, Torridon, Headingley, Leeds 6.

PLANT PATHOLOGISTS (2) (with first- or second-class honours degree, and preferably with two years or more postgraduate experience) in H.M. Colonial Service, West Africa, to work on the control of plant diseases by the use of fungicides—The Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, quoting CDE.87/14/01.

RESEARCH ASSISTANT (with good honours degree in zoology and interested in vertebrate anatomy and embryology) in MAMMALIAN GENETICS—The Secretary, University College, Gower Street, London, W.C.1.

RESEARCH ASSISTANT (with honours degree in physics or engineering) to the Principal of the College, to carry out research into the physical principles of the woollen textile processes—The Principal, Scottish Woollen Technical College, Galashiels, Selkirkshire.

SCIENTIFIC OFFICERS (with first- or second-class honours degree or equivalent in mathematics or physics) for operational research on a wide variety of problems, in London and the provinces, under the direction of the Scientific Adviser to the Air Ministry—The Ministry of Labour and National Service, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting A.285/52A.

TECHNICAL ASSISTANT (graduate in mathematical and/or physical science, and a good knowledge of at least one modern continental language, preferably German) IN THE SCHOOL OF THEORETICAL PHYSICS, for duties which will include scientific, secretarial and library work—The Registrar, Dublin Institute for Advanced Studies, Dublin.

UTILIZATION OFFICER (with degree in forestry and experience in timber exploitation and saw-milling operations) IN THE FORESTRY DEPARTMENT, Gold Coast Local Civil Service, to conduct detailed investigations into the resources and potential uses of local timber, and to advise on extraction and conversion methods and improvement of timber seasoning and grading—The Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, quoting CDE.61/13/04.

## REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

### Great Britain and Ireland

Report of the Thirteenth International Horticultural Congress, 1952. London, 8-15 September. 2 volumes. Vol. 1: Pp. xv+576+39 plates. Vol. 2: Pp. viii+577-1297+plates 40-100. (London: Royal Horticultural Society, 1953.) Two volumes 42s. [169]

British Productivity Council. Productivity Report: Fuel Conservation. Report of a visit to the U.S.A. in 1952 of a specialist team on the Conservation of Fuel, Heat and Energy. Pp. xii+102+8 plates. (London: British Productivity Council; Washington, D.C.: Office of Technical Services, Dept. of Commerce, 1953.) 5s. [179]

Memoirs of the Royal Astronomical Society. New General Catalogue of Nebulae and Clusters of Stars (1888); Index Catalogue (1895); Second Index Catalogue (1908). By Dr. J. L. E. Dreyer. Pp. iv+378. (London: Royal Astronomical Society, 1953.) 70s. (50s. to fellows.) [179]

Cocoa: a Crop with a Future. By Paul Bareaup. Pp. 39. (Bourneville: Cadbury Brothers, Ltd., 1953.) 7s. 6d. [179]

### Other Countries

Queensland Institute for Medical Research. Seventh Annual Report, Year ended 30th June, 1952. Pp. 27. (Brisbane: Government Printer, 1953.) [119]

South Australia. Institute of Medical and Veterinary Science. Fourteenth Annual Report of the Council, July 1951-June 1952. Pp. 89. (Adelaide: Government Printer, 1953.) [119]

Indian National Scientific Documentation Centre. Report 1952-53. Pp. ii+13. (New Delhi: Indian National Scientific Documentation Centre, 1953.) [119]

Central Laboratories for Scientific and Industrial Research, Hyderabad. Annual Report, 1951. Pp. x+57. (Hyderabad-Dn.: Osmania University Press, 1953.) [119]

Ceylon. Administration Report of the Acting Director of Fisheries for 1952. (Part IV—Education, Science and Art (L).) Pp. 26. (Colombo: Government Publications Bureau, 1953.) 50 cents. [119]

East Africa High Commission. East African Fisheries Research Organization. Annual Report, 1952. Pp. v+42. (Jinja: East African Fisheries Research Organization, 1952.) [119]

Indian Forest Records (New Series). Mycology, Vol. 1, No. 3: A New and Noteworthy Disease of Gamhar (*Gmelina arborea* Linn.) due to *Poria rhizomorpha* SP. Nov. By K. Bagchee. Pp. 25-39+8 plates. (Delhi: Manager of Publications, 1953.) 1/4/- rupees; 2s. [119]

Proceedings of the 11th International Congress of Philosophy. Vol. 5: Logic: Philosophical Analysis, Philosophy of Mathematics. Pp. 225. 17s. Vol. 6: Philosophy and Methodology of the Sciences de la Nature. Pp. 268. 21s. Vol. 14: Additional volume and Contributions to the Symposium on Logic. Pp. 350. 23s. (Amsterdam: North-Holland Publishing Company, 1953.) [119]

Report on the Scientific Results of the "Michael Sars" North Atlantic Deep-Sea Expedition, 1910. Vol. 4, Part 2, No. 3: Syntognathii, Solenichthyes, Anacanthini, Berycomorphi, Xenobercyces from the "Michael Sars" North Atlantic Deep-Sea Expedition, 1910. By Einar Koefoed. Pp. 38+4 plates. (Bergen: Trustees of the University of Bergen, 1953.) [119]

United States Department of Agriculture. Leaflet No. 337: Bed Bugs: How to Control Them. Pp. 8. (Washington: Government Printing Office, 1953.) 5 cents. [179]

United States Department of Agriculture. Bureau of Entomology and Plant Quarantine: Agricultural Research Administration. Grasshopper Control. Prepared by J. R. Parker and F. T. Cowan. Pp. 8. (Washington: Government Printer, 1953.) [179]

Journal of the Institute of Polytechnics, Osaka City University. Series B, Physics. Vol. 1, No. 1. (February, 1950.) Pp. 31. (Osaka: Institute of Polytechnics.) [179]

Australian National Antarctic Research Expeditions Reports. Series D: Meteorology. Vol. 2: Heard and Macquarie Islands, 1949. Pp. viii+135. Series D: Meteorology. Vol. 3: Heard and Macquarie Islands, 1950. Pp. x+142. (Melbourne: Antarctic Division, Dept. of External Affairs, 1953.) [179]

Rubber Research Institute of Malaya, Kuala Lumpur. Annual Reports for 1949-50 of the Chemical Division. Pp. 33+23. (Kuala Lumpur: Rubber Research Institute of Malaya, 1953.) [179]

Commonwealth Scientific and Industrial Research Organization. Australia. Soil Publication No. 1: Pedology of the Deniboo Irrigation District, New South Wales. By E. J. Johnston. Pp. (Melbourne: Commonwealth Scientific and Industrial Research Organization, 1953.) [179]

Institut Météorologique Danois. Communications Magnétiques, etc. No. 21: The Lunar-Diurnal Variation of the Magnetic Declination in Rude Skov 1908-1951. By J. Egedal. Pp. 17. (København: I Kommission Hos G. E. C. Gad, 1953.) [179]

Publications de l'Institut National pour l'Étude Agronomique du Congo-Belge. Série Technique No. 42: Recherches sur une plante à fibres: *L'Abroma augusta* L.f. Par J. Capot, Prof. D. de Meulemeester, J. Brynaert et G. Raes. Pp. 113+23 plates. (Bruxelles: Institut National pour l'Étude Agronomique du Congo Belge, 1953.) 100 francs. [179]

Fisheries Research Board of Canada. Progress Reports of the Atlantic Coast Stations (No. 56). Pp. 27. (Halifax, N.S.: Fisheries Research Board of Canada, 1953.) [179]

Stanford University Publications: University Series. Biological Sciences, Vol. 11: Current Biological Research in the Alaskan Arctic. Edited by Dr. Ira L. Wiggins. Pp. viii+55. (Stanford, Calif.: Stanford University Press; London: Oxford University Press, 1953.) 1 dollar. [179]

Bulletin of the Illinois Natural History Survey. Vol. 26, Article 1: The Mayflies or Ephemeroptera of Illinois. By B. D. Burks. Pp. vi+216. (Urbana, Ill.: Illinois Natural History Survey, 1953.) [179]

United States Department of Agriculture: Bureau of Agricultural Economics. Trade in Horticultural Specialties: a Statistical Compendium (1890-1950). By W. Truman Fossum. Pp. vi+116. (Washington: Government Printing Office, 1953.) [179]

U.S. Department of Commerce: Bureau of the Census. U.S. Census of Agriculture, 1950. Preliminary (The United States Horticultural Specialties). (Washington: Bureau of Census, 1953.) 25 cents. [179]

Bulletin of the American Museum of Natural History. Vol. 102, Article 3: Catalogue of the Type Specimens of Recent Mammals in the American Museum of Natural History. By George G. Goodwin. Pp. 207-412. (New York: American Museum of Natural History, 1953.) 2.50 dollars. [179]

Commonwealth Scientific and Industrial Research Organization. Extracts from Land Research Series No. 1: Extracts from General Report on Survey of Katherine-Darwin Region, 1946. By C. S. Christian and G. A. Stewart, compiled in collaboration with L. C. Noakes and S. T. Blake. Pp. 24. Land Research Series, No. 2: Survey of Townsville-Bowen Region, North Queensland, 1950. By C. S. Christian, S. J. Paterson, R. A. Perry, R. O. Slatyer, G. A. Stewart and D. M. Traves. Pp. 87+8 plates. Land Research Series, No. 3: Extracts from Survey of the Barkly Region, Northern Territory and Queensland, 1947-48. By C. S. Christian, L. C. Noakes, R. A. Perry, R. O. Slatyer, G. A. Stewart and D. M. Traves. Pp. 55+1 plate. (Melbourne: Commonwealth Scientific and Industrial Research Organization, 1952-3.) [189]