

## FORTHCOMING EVENTS

(Meeting marked with an asterisk \* is open to the public)

### Monday, December 17

INSTITUTION OF ELECTRICAL ENGINEERS, RADIO SECTION (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Mr. E. C. Cherry: "What Practical Benefits can Communication Engineers expect from the Modern Information Theory?"

ROYAL GEOGRAPHICAL SOCIETY (at 1 Kensington Gore, London, S.W.7), at 8.15 p.m.—Rt. Hon. the Earl of Verulam, Mr. J. Houston Angus and Mr. Stephen Chaplin: "Geography of Power".

### Tuesday, December 18

ROYAL SOCIETY OF ARTS (at John Adam Street, Adelphi, London, W.C.2), at 5.15 p.m.—Dr. D. L. Gunn: "The Red Locust".

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.—Mr. J. W. R. Rayner: "Gasification by the Moving-Burden Technique".\*

### Tuesday, December 18—Wednesday, December 19

ASSOCIATION OF UNIVERSITY TEACHERS (in the Eugenics Theatre, University College, Gower Street, London, W.C.1).

PHYSICAL SOCIETY (in the Physics Department, University College, Southampton).—Autumn Provincial Meeting.

### Tuesday, December 18

At 2 p.m.—1st Session: "Optics of Metals".

### Wednesday, December 19

At 9.30 a.m.—2nd Session: "Thermal Properties and Growth of Crystals"; at 2 p.m.—3rd Session: "Complex Spectra and Nuclear Structure".

### Wednesday, December 19

SOCIETY OF CHEMICAL INDUSTRY, LONDON SECTION (joint meeting with the LONDON AND SOUTH-EASTERN COUNTIES SECTION of the ROYAL INSTITUTE OF CHEMISTRY, at the Waldorf Hotel, Aldwych, London, W.C.2), at 4 p.m.—Symposium on "Radio-chemistry" (Speakers: Sir John Cockcroft, F.R.S., Dr. J. E. Johnson and Mr. J. Smith).

ROYAL METEOROLOGICAL SOCIETY (at 49 Cromwell Road, London, S.W.7), at 5 p.m.—Scientific Papers.

INSTITUTION OF ELECTRICAL ENGINEERS, SUPPLY SECTION (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Mr. W. R. Stoker and Mr. C. N. Thompson: "Inhibited Transformer Oil"; Mr. P. W. L. Gossling and Mr. L. H. Welch: "The Stability of Oil in Transformers".

MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY, SOCIAL PHILOSOPHY SECTION (at the Portico Library, Mosley Street, Manchester), at 5.30 p.m.—Lady Simon of Wythenshawe: "Leadership—Can We Educate for It?"

ROYAL MICROSCOPICAL SOCIETY (in the Department of Human Anatomy, Oxford), at 5.30 p.m.—Dr. R. Barer: "A Vector Theory of Phase-Contrast and Interference-Contrast".

### Thursday, December 20

INSTITUTION OF MINING AND METALLURGY (at the Geological Society of London, Burlington House, Piccadilly, London, W.1), at 5 p.m.—Scientific Papers.

LONDON MATHEMATICAL SOCIETY (at the Royal Astronomical Society, Burlington House, Piccadilly, London, W.1), at 5 p.m.—Mr. H. D. Ursell: "Prime Ends".

ROYAL AERONAUTICAL SOCIETY (at the Institution of Mechanical Engineers, Storey's Gate, St. James's Park, London, S.W.1), at 6 p.m.—Mr. E. G. Broadbent and Mr. W. T. Kirkby: "Control Surface Flutter".

BRITISH INSTITUTE OF RADIOLOGY (in the Reid-Knox Hall, 32 Welbeck Street, London, W.1), at 8 p.m.—Contributions on "The Diagnostic Use of P<sub>32</sub> in Neurosurgery" (Speakers: Mr. T. P. Morley and Dr. C. W. Gilbert).

### Friday, December 21

INSTITUTE OF NAVIGATION (at the Royal Geographical Society, 1 Kensington Gore, London, S.W.7), at 5 p.m.—Lieut.-Comdr. P. G. Satow: "Meteorology and Navigation".

BRITISH INSTITUTE OF RADIOLOGY (in the Reid-Knox Hall, 32 Welbeck Street, London, W.1), at 6.30 p.m.—Dr. W. K. Sinclair: "The Use of P<sub>32</sub> incorporated in a Plastic for Superficial Beta Therapy"; Mr. H. F. Freundlich: "The Use of Fission Products in Surface Applicators".

## APPOINTMENTS VACANT

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

SENIOR LECTURER IN PHYSICS at the Frontier College for Women, Peshawar—The High Commissioner for Pakistan, 35 Lowndes Square, London, S.W.1 (December 20).

PRINCIPAL BIOCHEMIST IN THE CLINICAL LABORATORIES—The House Governor, London Hospital, Whitechapel, London, E.1 (December 21).

BIOCHEMIST for full-time research on fundamental problems related to the nervous system, at the Neuro-Psychiatric Research Centre, Whitechurch Hospital—The Secretary, Welsh Regional Hospital Board, Temple of Peace and Health, Cathays Park, Cardiff (December 22).

JUNIOR CHEMISTS (with Inter.B.Sc., or equivalent) in the Central Laboratory, Chiswick—The Staff Officer (F/EV/197), London Transport, 55 Broadway, London, S.W.1 (December 22).

PRINCIPAL OF THE TECHNICAL INSTITUTE—The Director of Education, Town Hall, Wallasey (December 22).

SCIENTIST, Grade I, or SENIOR SCIENTIST (with high academic scientific qualifications; sound all-round knowledge of fuel technology and some research experience are desirable) AS CHIEF COAL SURVEY OFFICER in the Scottish Division—The National Coal Board, Establishments (Personnel), Hobart House, Grosvenor Place, London, S.W.1, quoting T/T/403 (December 22).

SCIENTIST, Grade II (with an honours degree in science, or the equivalent, and several years industrial experience) in the No. 2 (Wigan) Area Laboratory at Ince Moss Colliery, Wigan; a SCIENTIST, Grade II (with an honours degree in science, or the equivalent, and several years industrial experience) in the No. 4 (Burnley) Area Laboratory at Altham Coke Works, Altham, Accrington; and a SCIENTIST, Grade III (graduate with a first- or second-class honours degree in chemistry) at the Central Laboratory, Shade House, Swinton—The Divisional Establishment Officer, National Coal Board, North-Western Division, 40 Portland Street, Manchester 1 (December 22).

ASSISTANT (Grade A) IN CHEMISTRY, to teach organic or inorganic chemistry to an advanced level, and general chemistry to intermediate level—The Clerk to the Governors, South-East Essex Technical College and School of Art, Longbridge Road, Dagenham, Essex.

ASSISTANT EXECUTIVE ENGINEER IN THE PUBLIC WORKS DEPARTMENT, Sarawak—The Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting No. 27322/113.

CHEMIST (with some experience in research) for training in methods of dyeing research—The Secretary, British Rayon Research Association, Barton Dock Road, Urmston, Manchester.

CHEMISTS and METALLURGISTS (Scientific Officer grade) at a Ministry of Supply research establishment in Berkshire: PHYSICAL METALLURGIST (Ref. F.886/51A) with sound knowledge of modern metallurgical theory; experience in metallography or in the determination of thermal and physical properties essential, and a PHYSICAL or INORGANIC CHEMIST (Ref. F. 887/51A) preferably with some experience of radioactive chemistry—The Ministry of Labour and National Service, Technical and Scientific Register (K), Almack House, 26-28 King Street, London, S.W.1, quoting the appropriate Ref. No.

CURATOR (with an honours degree in archaeology with some anthropological training) IN THE DEPARTMENT OF MUSEUMS, Malaya—The Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting No. 27440/1/51. Appts.

ELECTRONIC ENGINEER or PHYSICIST by the Division of Atomic Energy (Production), to take charge of a group concerned with the maintenance and modification of electronic instruments at Windscale Works, Sellafield, Cumberland—The Ministry of Supply, Division of Atomic Energy (Production), Risley, Warrington, Lancs, quoting Ref. 279.

GRADUATE ASSISTANT IN THE BIOCHEMICAL DEPARTMENT—The Secretary, Hospital Management Committee, Dudley Road Hospital, Birmingham 18.

HEAD OF THE DEPARTMENT OF CHEMICAL TECHNOLOGY, Indian Institute of Science, Bangalore—The Ministry of Labour and National Service, Technical and Scientific Register (K), Almack House, 26-28 King Street, London, S.W.1, quoting A.12/1/31E.

HEALTH PHYSICS AND SAFETY GROUP MANAGER (with either an honours degree in physics or chemistry, associateship of the R.I.C. or the Institute of Physics, or equivalent qualifications) at Windscale Works, Sellafield, Cumberland—The Ministry of Supply, Division of Atomic Energy (Production), Risley, Warrington, Lancs, quoting No. 269.

LECTURER (medically qualified, with some experience of physiological teaching and research) IN PHYSIOLOGY—Prof. D. S. Torrens, School of Physic, Trinity College, Dublin.

LECTURER IN MECHANICAL ENGINEERING, to teach applied mechanics, strength and properties of materials, and some thermodynamics—The Principal, Technical College, Darnley Road, Gravesend, Kent.

LECTURER IN PHYSIOLOGY AND PHARMACOLOGY—The Registrar, College of Technology, Bristol 1.

LECTURER IN RUBBER CHEMISTRY—The Clerk, National College of Rubber Technology, Northern Polytechnic, Holloway, London, N.7.

OFFICER-IN-CHARGE OF CAMDEN PARK EXPERIMENTAL STATION (Agricultural), Windward Islands—The Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting *Nature* and M.23443.G.

PHYSICIST (with electronic experience) for basic research on ultrasonics—The Secretary, British Rayon Research Association, Barton Dock Road, Urmston, Manchester.

PRINCIPAL SCIENTIFIC OFFICER—PHYSICIST (Ref. A. 367/51A) to work on the improvement of existing techniques and investigation of new methods of photographic recording of experiments, including the use of long-focus lenses, and of colour photography; and a SENIOR SCIENTIFIC OFFICER—ELECTRICAL ENGINEER or PHYSICIST (Ref. A.368/51A) for experimental work in the development of magnetic recorders and associated electronic circuits, in the Instrumentation Department of the Royal Aircraft Establishment, Farnborough—The Ministry of Labour and National Service, Technical and Scientific Register (K), Almack House, 26-28 King Street, London, S.W.1, quoting the appropriate Ref. No.

RESEARCH ASSISTANTS (with relevant academic qualification, and practical experience in either mechanical engineering design or research, or in electronics and instrumentation) for work covering a wide field of hydraulic engineering—The Director, British Hydro-mechanics Research Association, Harlow, Essex.

SCIENCE GRADUATES: (a) a PHYSICAL CHEMIST to develop methods of test in the field of adhesives, and (b) a CHEMIST for laboratory dealing with day-to-day production problems arising in the industry—The Printing, Packaging and Allied Trades Research Association, Patra House, Randalls Road, Leatherhead, Surrey.

SENIOR SCIENTIFIC OFFICER or SCIENTIFIC OFFICER (with a first- or second-class honours degree in chemistry, metallurgy or physics, or equivalent qualification, at least three years' post-graduate research experience, and a good knowledge of German or Russian) in the Information Section at the Atomic Energy Research Establishment, Harwell—The Ministry of Labour and National Service, Technical and Scientific Register (K), Almack House, 26-28 King Street, London, S.W.1, quoting F.897/51A.