

differences in coal and methods of carbonization, special problems have to be tackled; and also that the enormous post-war demand for all types of glass will be met in part by a general expansion of the Scottish industry. Scotland should also have a considerable share in the expansion of the dyestuffs industry; but the future of the papermaking industry in Scotland is bound up with the renewed importation of esparto grass and wood pulp. The development in Scotland of viscose, other types of rayon, or entirely new fibres from vegetable protein or alginic acid, must depend entirely upon economic factors, but special attention is directed to glass fibre. There appears to be room for a steady expansion of the rubber industry in Scotland generally, in addition to developing the export market, and it is strongly urged that actual manufacture of synthetic resins should be established in Scotland. The extraction of natural drugs could well be expanded in view of the great opportunities for export, and synthetic vitamins should find a place in the well-established fine chemical industry.

## FORTHCOMING EVENTS

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

### Monday, July 5—Friday, July 9

IRISH CHEMICAL ASSOCIATION (in the Department of Chemistry, University College, Dublin), at 10 a.m.—Summer School in Chemistry.

### Tuesday, July 6

SOCIETY OF CHEMICAL INDUSTRY, PLASTICS GROUP (at Manson House, 26 Portland Place, London, W.1), at 6.30 p.m.—16th Annual General Meeting; Dr. Emil Ott: "The Relation of Physical Characteristics and Chemical Structure of Cellulose Derivatives".

### Wednesday, July 7

BRITISH SOCIETY FOR RESEARCH ON AGEING (at the Royal Society of Medicine, 1 Wimpole Street, London, W.1), at 11 a.m.—Conference.\*

### Thursday, July 8

SOCIETY FOR ENDOCRINOLOGY (in the Clinical Lecture Theatre, Middlesex Hospital Medical School, London, W.1), at 5 p.m.—Prof. Edwin B. Astwood: "Recent Advances in the Physiology of the Thyroid Gland".\*

### Thursday, July 8—Saturday, July 10

INSTITUTE OF PHYSICS, MANCHESTER AND DISTRICT BRANCH (in the Physics Department, The University, Oxford Road, Manchester).—Conference on "Semiconductors and their Applications".

Thursday, July 8

At 2 p.m.—"The Physics of Semiconductors".

Friday, July 9

At 9.30 a.m.—"Industrial Developments"; at 2 p.m.—"Applications".

Saturday, July 10

At 9.30 a.m.—Informal Discussions, Demonstrations and Exhibits.

## APPOINTMENTS VACANT

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

SCIENTIFIC OFFICER IN THE CHEMICAL RESEARCH DIVISION of the Ministry of Agriculture—The Assistant Secretary (Establishment), Ministry of Finance, Stormont, Belfast (July 9).

ASSISTANT KEEPER (Class II)—The Director, The London Museum, St. James's, London, S.W.1 (July 9).

ENTOMOLOGIST to work on the biology and control of the Pea Aphid, and an ENTOMOLOGIST to assist with investigations on the biology and control of the Pea Moth and to work on the development of methods of pest control—The Secretary, School of Agriculture, Cambridge (July 10).

SENIOR OBSERVER and a JUNIOR OBSERVER—The Director, The Observatories, Cambridge (July 10).

ASSISTANT PLANT PHYSIOLOGIST, ASSISTANT POMOLOGISTS (2), and an ORGANIC CHEMIST for fruit products investigations, at the Long Ashton Research Station—The Secretary and Registrar, The University, Bristol (July 10).

ASSISTANT LECTURER IN ZOOLOGY—The Registrar, The University, Leeds 2 (July 10).

LABORATORY ASSISTANT (Grade II) IN THE DEPARTMENT OF PHYSICS—The Secretary, Bedford College for Women, Regent's Park, London, N.W.1 (July 10).

SENIOR LECTURERS or LECTURERS (2) IN THE DEPARTMENT OF ENGINEERING—The Registrar, The University, Manchester 13 (July 10).  
PUBLIC ANALYST—The Town Clerk, Town Hall, Bolton, endorsed 'Public Analyst' (July 10).

LECTURER IN THEORETICAL PHYSICS—The Registrar, King's College, Strand, London, W.C.2 (July 12).

LECTURER IN ARCHAEOLOGY—The Secretary, Queen's University, Belfast (July 13).

ASSISTANT IN GEOGRAPHY—The Secretary of University Court, The University, Glasgow (July 15).

SENIOR LECTURER or LECTURER IN THEORETICAL PHYSICS—The Registrar, The University, Manchester 13 (July 17).

SENIOR RESEARCH OFFICER or RESEARCH OFFICER (Ref. No. 1768) to undertake research into the chemical composition of Australian pasture plants, a RESEARCH OFFICER—Ecology (Ref. No. 1769)—to undertake research on pasture ecology, and a RESEARCH OFFICER—Agrostology (Ref. No. 1770)—to conduct research into the establishment and management of sown pastures, Division of Plant Industry, Canberra—The Secretary, Australian Scientific Research Liaison Office, Africa House, Kingsway, London, W.C.2, quoting appropriate Ref. No. (July 24).

CHIEF CHEMIST, and a RESEARCH OFFICER for enzyme chemistry, physical chemistry, X-Ray crystallography, and infra-red spectroscopy—The Secretary, Wool Industries Research Association, Torridon, Leeds 6 (July 24).

SENIOR ANALYST, an ANALYST, and an ANALYST (Biochemist), in the City Analyst's Department—The Town Clerk, Municipal Buildings, Dale Street, Liverpool, with the appropriate endorsement (July 26).

MECHANICAL ENGINEERS (3, Principal Scientific Officer grade) in the Royal Naval Scientific Service, for (a) design and development of torpedoes, (b) work on small control mechanisms, and (c) work requiring a sound knowledge, both practical and theoretical, of steam generating plant and prime movers—The Secretary, Civil Service Commission, Scientific Branch, 27 Grosvenor Square, London, W.1, quoting No. 2186 (July 31).

CHAIR OF ARCHITECTURE AT NATAL UNIVERSITY COLLEGE—The Secretary, Universities Bureau of the British Empire, 8 Park Street, London, W.1 (July 31).

HEAD OF THE METALLURGY DIVISION at the Atomic Energy Research Establishment—The Secretary, Civil Service Commission, Scientific Branch, 27 Grosvenor Square, London, W.1, quoting No. 2184 (July 31).

CHAIR OF CHEMISTRY—The Secretary, The University, Aberdeen (July 31).

CHAIR OF PHYSICS in the University of Adelaide—The Registrar, The University, Adelaide, South Australia (August 15).

MECHANICAL ENGINEERS, PHYSICISTS or METALLURGISTS for research on mechanical working problems generally, including rolling, drawing and forging, and MECHANICAL ENGINEERS to assist in research on mechanical working problems generally, in the Metal Flow Research Laboratory—The Personnel Officer, British Iron and Steel Research Association, 11 Park Lane, London, W.1, endorsed 'Metal Flow'.

LABORATORY ASSISTANT or TECHNICIAN with experience in some field of biological laboratory work, and a SPECIAL HISTOLOGICAL TECHNICIAN for a new research programme on radioactive tracer elements—The Professor of Zoology, The University, Bristol.

GOVERNMENT CHEMIST in the Medical Department of the Gold Coast—The Director of Recruitment, Colonial Service, 15 Victoria Street, London, S.W.1.

TECHNICAL RESEARCH ASSISTANT by the Professor of Physiology—The Secretary, King's College of Household and Social Science, Campden Hill Road, London, W.8.

SCIENTIFIC OFFICERS and EXPERIMENTAL OFFICERS in Ministry of Supply Establishments concerned with the whole field of scientific research for the Services, for Civil Aviation and for a variety of industrial purposes, in the fields of: Chemistry (Ref. F.355/48), Biochemistry, Physiology, Pharmacology (Ref. G.184/48), Aerodynamics (Ref. A.160/48), Aircraft Structural Theory (Ref. C.801/48), Gas Turbines (Ref. C.299/48), Physics (Ref. A.159/48), Radar (Ref. A.161/48), Aircraft Instrumentation (Ref. C.300/48), Metallurgy (Ref. F.356/48), Mathematical Applications (Ref. A.158/48)—Technical and Scientific Register (K), York House, Kingsway, London, W.C.2.

CHEMIST with research experience preferably, though not necessarily, in field of protein fibres—The Director, British Cotton Industry Research Association, Shirley Institute, Didsbury, Manchester.

SENIOR TECHNOLOGIST—The Secretary, British Rayon Research Association, Bridgewater House, 58 Whitworth Street, Manchester 1.

BIOCHEMIST (non-medical)—The Secretary-Superintendent, County Hospital, Lincoln.

ASSISTANT TECHNICIAN IN THE ZOOLOGY DEPARTMENT—The Registrar, University College, Southampton.

LECTURER IN LIVESTOCK HUSBANDRY—The Principal, Harper Adams Agricultural College, Newport, Shropshire.

SENIOR LECTURER, and a LECTURER, in PHYSICS, at the University of Otago, Dunedin—The High Commissioner for New Zealand, 415 Strand, London, W.C.2.

STATISTICIANS in the newly created Statistical Department of the Government of Nigeria—The Director of Recruitment, Colonial Service, 15 Victoria Street, London, S.W.1.

## REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

### Great Britain and Ireland

Physical Society. Report on Colour Terminology. By a Committee of the Colour Group. Pp. iv+56. (London: Physical Society, 1948.) 7s. net.

A Description of Ordnance Survey Small Scale Maps. Pp. v+21+19 plates. (Cheshington: Ordnance Survey Office, 1947.) 1s. 6d. [135]

A Description of Ordnance Survey Large Scale Maps. Pp. v+23+9 plates. (Cheshington: Ordnance Survey Office, 1947.) 1s. 6d. [135]

F.P.A. Journal. Quarterly. Vol. 1, No. 1, April. Pp. 28. (London: Fire Protection Association, 1948.) n.p. [185]