

The following papers were also read: insect transmission of a plant virus complex, tobacco rosette (K. M. Smith); the rate of inactivation of vaccinia virus dried from the frozen state (D. McClean); iron organisms (E. G. Pringsheim); the life-cycle of sporing *Actinomyces* (E. Klieneberger-Nobel); the site of proliferation of nitrifying bacteria in soils (H. Lees and J. H. Quastel); variation in symbiotic activity within a pure-line strain of clover nodule bacteria (P. S. Nutman and J. Kleczkowska).

The following demonstrations were exhibited in the Molteno Institute: warm-stage and cytological observations on the early development of the avian tubercle bacillus (E. M. Brieger, H. B. Fell and C. Robinow); avian malaria (Ann Bishop); plant viruses and virus diseases (K. M. Smith); cultures of Algae and flagellates (E. G. Pringsheim); the soil perfusion unit (H. Lees and J. H. Quastel).

FORTHCOMING EVENTS

Saturday, January 5

ROYAL INSTITUTION (at 21 Albemarle Street, London, W.1), at 2.30 p.m.—Sir Robert Watson-Watt, F.R.S.: "Wireless" (Christmas Lectures adapted to a Juvenile Auditory, 5).

Monday, January 7

FARMERS' CLUB (at the Royal Empire Society, Craven Street, Strand, London, W.C.2), at 2.30 p.m.—Dr. S. J. Wright: "Mechanisation".

Tuesday, January 8

ROYAL INSTITUTION (at 21 Albemarle Street, London, W.1), at 2.30 p.m.—Sir Robert Watson-Watt, F.R.S.: "Wireless" (Christmas Lectures adapted to a Juvenile Auditory, 6).

ILLUMINATING ENGINEERING SOCIETY (at the Institution of Mechanical Engineers, Storey's Gate, St. James's Park, London, S.W.1), at 6 p.m.—Discussion on "The B.S.I. Specification for Street Lighting" (to be introduced by Dr. J. W. T. Walsh).

Wednesday, January 9

SOCIETY OF CHEMICAL INDUSTRY (joint meeting of the MICROBIOLOGICAL PANEL OF THE FOOD GROUP with the SOCIETY FOR APPLIED BACTERIOLOGY, at the Chemical Society, Burlington House, Piccadilly, London, W.1), at 2.15 p.m.—Dr. A. T. B. Mattick and Miss E. R. Hiscox: "Some Observations on Heat-Resistance of Micro-organisms"; Dr. C. L. Hannay: "Some Problems in the Bacteriology of Rivers"; Mr. A. J. Musgrave: "Mould Growth on Leather".

ROYAL SOCIETY OF ARTS (at John Adam Street, Adelphi, London, W.C.2), at 2.30 p.m.—Commander H. P. Mead: "Flags" (Dr. Mann Juvenile Lectures, 2).

INSTITUTE OF PETROLEUM (at 26 Portland Place, London, W.1), at 5.30 p.m.—Messrs. S. F. Birch, P. Docksey and J. H. Dove: "The Production of *Is*-Hexane and *Is*-Heptane by Super-Fractionation".

INSTITUTION OF ELECTRICAL ENGINEERS, TRANSMISSION SECTION (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Mr. P. J. Ryle: "Steel Tower Economics".

IRON AND STEEL INSTITUTE (joint meeting with the EBBW VALE METALLURGICAL SOCIETY, at the National Hall, Ebbw Vale), at 6.45 p.m.—Dr. J. H. Chesters: "The Limiting Factor in Open-Hearth Design".

SOCIETY FOR VISITING SCIENTISTS (at 5 Old Burlington Street, London, W.1), at 7.30 p.m.—Discussion on "Science in Canada and South Africa" (Speakers: Dr. E. W. van Heyningen, Major E. Boden, Dr. J. G. Malloch and Dr. R. Y. Stanier).

Thursday, January 10

SOCIETY OF CHEMICAL INDUSTRY, PLASTICS GROUP (joint meeting with the FARADAY SOCIETY, at the Institution of Mechanical Engineers, Storey's Gate, St. James's Park, London, S.W.1), at 2.30 p.m.—Dr. G. B. M. Sutherland: "The Infra-Red Examination of Plastics".

LINNEAN SOCIETY (at Burlington House, Piccadilly, London, W.1), at 5 p.m.—Scientific Papers and Exhibits.

INSTITUTION OF ELECTRICAL ENGINEERS, INSTALLATIONS SECTION (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Mr. W. R. Watson: "The Control of Electrical Installation Work".

WOMEN'S ENGINEERING SOCIETY, MANCHESTER BRANCH (at the Engineers' Club, Albert Square, Manchester), at 6.30 p.m.—Mr. G. W. G. Canter: "Ships' Engines".

PHARMACEUTICAL SOCIETY (at 17 Bloomsbury Square, London, W.C.1), at 7 p.m.—Mr. R. R. Bennett: "The British Pharmacopoeia".

Friday, January 11

ROYAL ASTRONOMICAL SOCIETY (at Burlington House, Piccadilly, London, W.1), at 5 p.m.—Additional meeting to meet the French astronomers, Dr. D. Chalonge, Dr. A. Couder, Prof. A. Danjon, Prof. J. Dufay and Dr. B. Lyot.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (in the Lecture Theatre of the Mining Institute, Newcastle-upon-Tyne), at 6 p.m.—Mr. J. W. Stephenson: "Science and Craftsmanship in the Engineer and Shipbuilding Industries".

BRITISH ASSOCIATION OF CHEMISTS, ST. HELENS SECTION (at the Y.M.C.A. Buildings, St. Helens), at 7.30 p.m.—Mr. F. Moul: "Hormones".

Saturday, January 12

ASSOCIATION OF BRITISH ZOOLOGISTS (at the Zoological Society of London, Regent's Park, London, N.W.8), at 10 a.m.—Eleventh Annual Meeting.

INSTITUTION OF MECHANICAL ENGINEERS, GRADUATES' SECTION (at Storey's Gate, St. James's Park, London, S.W.1), at 3.30 p.m.—Mr. S. Sarwal: "Fuel Injection System on Diesel Engines".

APPOINTMENTS VACANT

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

LECTURER IN PHYSICAL CHEMISTRY, and a LECTURER IN MATHEMATICS—The Registrar, College of Technology, Manchester 1 (January 14).

ASSISTANT LECTURER IN CIVIL ENGINEERING—The Registrar, The University, Manchester 13 (January 14).

CHIEF CHEMIST, Grade 8, a JUNIOR TECHNICAL ENGINEER, Grade 10, a COMBUSTION ENGINEER, Grade 8a, and ASSISTANT PLANNING ENGINEERS (3), Grade 9a, to the Borough of Fulham Electricity Department—The Town Clerk, Town Hall, Fulham, London, S.W.6 (January 14).

ELECTRICAL ENGINEER AND MANAGER to the County Borough of Wigan—The Town Clerk, Municipal Buildings, Library Street, Wigan (January 14).

SENIOR DIETITIANS (Technical Officers, women) by the Ministry of Food, Food Advice Division—The Ministry of Labour and National Service, Appointments Department, Technical and Scientific Register, Room 572, York House, Kingsway, London, W.C.2, quoting F.4631A (January 15).

CHIEF CHEMIST—The Water Engineer and Manager, Spon House, 21 Allesley Old Road, Coventry (January 16).

ASSISTANT BOROUGH ANALYST AND DEPUTY GAS EXAMINER—The Town Clerk, Civic Centre, Southampton, endorsed 'Assistant Borough Analyst' (January 17).

HEAD OF THE CHEMISTRY DEPARTMENT of the Municipal Technical College—The Chief Education Officer, Education Offices, Nelson Square, Bolton (January 17).

ASSISTANT MASTER to teach PHYSICS up to University scholarship standard in the City of London School—The Town Clerk, 55-61 Moor-gate, London, E.C.2 (January 18).

VACANCIES (2) on the staff of the Water Pollution Research Laboratory, Watford, mainly for research on methods of treatment of water, sewage and trade waste waters (Ref. No. F.5087.A), and one VACANCY on the staff of the Chemical Research Laboratory, Teddington, for research on the methods of separation of tar components, including distillation (Ref. No. F.5216.A)—The Ministry of Labour and National Service, Appointments Department, Technical and Scientific Register, Room 572, York House, Kingsway, London, W.C.2, quoting the appropriate Ref. No. (January 18).

ASSISTANT LECTURER IN ZOOLOGY—The Registrar, University College of Wales, Aberystwyth (January 19).

BIOLOGISTS (honours graduates in Botany with subsidiary qualifications in Zoology and/or Bacteriology) at (i) the North Eastern Laboratory at Wakefield, (ii) the West Midland Laboratory at Birmingham, (iii) the South Western Laboratory at Bristol, (iv) the North Western Laboratory at Preston (Ref. No. F.5063.A); CHEMISTS (with honours degree in Chemistry, experience of micro-analysis and the use of physico-analytical instruments) at (i) the North Eastern Laboratory at Wakefield (Ref. No. F. 5337.A), and (ii) the South Western Laboratory at Bristol (Ref. No. 5388.A)—The Ministry of Labour and National Service, Appointments Department, Technical and Scientific Register, Room 572, York House, Kingsway, London, W.C.2, quoting the appropriate Ref. No. (January 19).

BOROUGH WATER ENGINEER—The Town Clerk, Town Hall, Watford, Herts., endorsed "Water Engineer" (January 21).

ENGINEERING ASSISTANTS, CIVIL (senior and junior), by the Crown Agents for the Colonies for their Engineering Designs Department—The Ministry of Labour and National Service, Technical and Scientific Register, Room 572, York House, Kingsway, London, W.C.2, quoting E.2135.A (January 24).

GENERAL ENGINEERING ASSISTANT in the Borough Engineer's Department—The Borough Engineer, Town Hall, Burton-upon-Trent, endorsed "General Engineering Assistant" (January 25).

PROFESSOR OF ENGINEERING in the University of Melbourne—The Secretary, Universities Bureau of the British Empire, c/o University College, Gower Street, London, W.C.1 (in Melbourne, February 15).

ASSISTANT in the Registrar's Office (university degree and secretarial training essential)—The Secretary, Bedford College for Women, Regent's Park, London, N.W.1.

ASSISTANT ENGINEERS, Grade B (2), ASSISTANT ENGINEERS, Grade C, an ASSISTANT ENGINEER FOR WASTE, Grade B(2), and MECHANICAL ENGINEERING DRAUGHTSMEN, Class II, Class I(2), Class I(1)—The Clerk to the Metropolitan Water Board, New River Head, Rosebery Avenue, London, E.C.1.

DEPUTY BOROUGH ELECTRICAL ENGINEER AND MANAGER—The Electrical Engineer, Wallasey Road, Wallasey.

LECTURER (man) FOR TECHNICAL ASPECTS OF VISUAL EDUCATION—The Registrar, University College, Exeter.

CHEMIST (male) in the Mineral Resources Department—The Establishment Officer, Imperial Institute, South Kensington, London S.W.7.

PROFESSOR OF SOCIAL ANTHROPOLOGY in the Natal University College, Durban—The Secretary, Universities Bureau of the British Empire, c/o University College, Gower Street, London, W.C.1.