

estimated the effect of various isolation systems on contamination in seed production.

Work on plant improvement by crossing has been carried out for uniform coloration of fruit in tomato (G. M. Haskell) and for combining the dwarf habit of *Phaseolus vulgaris* with the extended inflorescence of *P. multiflorus* (L. G. Wigan).

The Cytology Department, under Dr. C. D. Darlington, director of the Institution, has worked on the effect of cell gradients in controlling the development of nuclei in the pollen grain. The occurrence of dwarf pollen has engaged the attention of L. F. la Cour, who discusses the relative merits of segregation and differentiation as a cause. Further studies include the effect of X-rays on meiosis, and chromosome breakage by temperature shock. An interesting development in the Garden Department, under W. J. C. Lawrence, is the effect of artificial lighting on the yield of tomato plants. Daylight fluorescent tubes lit for 6 hr. a night for the first twenty nights after germination resulted in a much heavier yield of fruit, particularly in the first three weeks of picking.

The Institution is still carrying out its long-term programme of removal to Bayfordbury, Hertford; but it is expected to be some time before the transfer is complete.

## APPOINTMENTS VACANT

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

RESEARCH OFFICER AT THE DIVISION OF INDUSTRIAL CHEMISTRY, Melbourne—The Chief Scientific Liaison Officer, Australian Scientific Research Liaison Office, Africa House, Kingsway, London, W.C.2, quoting No. 1765 (September 4).

HEAD (male) OF THE POULTRY DEPARTMENT at the Ulster Dairy School (for girls), Cookstown, Co. Tyrone—The Establishment Officer, Ministry of Agriculture, Stormont, Belfast (September 4).

LECTURER IN AGRICULTURE AND FARM BOOKKEEPING, and a LECTURER IN AGRICULTURE, FARM IMPLEMENTS, BUILDING CONSTRUCTION, etc., at the Cheshire School of Agriculture, Reaseheath—The Director of Education, County Education Offices, City Road, Chester (September 4).

INSTRUCTRESSES (2) IN DAIRYING AND POULTRY-KEEPING—The Secretary, Edinburgh and East of Scotland College of Agriculture, 13 George Square, Edinburgh 8 (September 4).

CHEMIST, and a PHYSICIST—The Secretary, Hosiery Research Council, 4 First Avenue, Sherwood Rise, Nottingham (September 4).

RESEARCH PHYSICO-CHEMIST at the Research Institute of the Foot-and-Mouth Disease Research Committee—The Director, Research Institute, Pirbright, Surrey (September 4).

DEMONSTRATOR IN CHEMISTRY AND BIOCHEMISTRY with a special interest in Physical Chemistry—The Dean of the Medical College, St. Bartholomew's Hospital, West Smithfield, London, E.C.1 (September 4).

LECTURER IN THE ENGINEERING AND MINING DEPARTMENTS to take Electrical Technology and Mechanical Engineering with mining qualifications—The Registrar, University College, Cathays Park, Cardiff (September 4).

LECTURER IN ENTOMOLOGY, an AGRICULTURAL ECONOMIST, and an ASSISTANT AGRICULTURAL ECONOMIST—The Registrar, The University, Bristol 8 (September 4).

LECTURER or ASSISTANT LECTURER IN PHYSICS—The Principal, College of Technology, Manchester (September 6).

BIOLOGIST (Technical Officer) as HEAD OF THE BIOLOGICAL SECTION of the Technical and Scientific Register—The Ministry of Labour and National Service, Appointments Department, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting G.351/48A (September 6).

MECHANICAL ENGINEER (Ref. C.528/48A), and a STANDARDS AND CO-ORDINATION ENGINEER (Ref. C.529/48A), at the Atomic Energy Research Establishment, Harwell—The Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting the appropriate Ref. No. (September 6).

AGRICULTURAL ECONOMIST (male)—The Registrar, Wye College, Wye, Ashford, Kent (September 7).

J. G. GRAVES MEDICAL RESEARCH FELLOWSHIP for full-time research in some branch of medical science approved by the Faculty of Medicine—The Registrar, The University, Sheffield 10 (September 11).

ASSISTANT IN THE ENGINEERING DEPARTMENT, London H.Q.—The Director, Personnel Department, British Council, 3 Hanover Street, London, W.1 (September 11).

EDITORIAL ASSISTANT (with degree in physical science with bias towards physics and mathematics) to the Royal Society—The Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting A.270/48A (September 11).

LECTURER IN ANTHROPOLOGY with special reference to India—The Secretary, School of Oriental and African Studies, University of London, London, W.C.1 (September 11).

SENIOR LECTURER IN MATHEMATICS at the New England University College, Armidale, New South Wales—The Secretary, Universities Bureau of the British Empire, 32 Woburn Square, London, W.C.1 (September 15).

ASSISTANT BACTERIOLOGIST (with an Honours Science Degree in Bacteriology), and an ASSISTANT BIOCHEMIST (with an Honours Degree in Science and special experience in Biochemistry), to the Northern Regional Hospital Board—The Secretary and Administrative Medical Officer, Raigmore Hospital, Inverness (September 15).

PROFESSOR OF BOTANY at Fouad I University, Cairo—The Director, Egyptian Education Bureau, 4 Chesterfield Gardens, London, W.1 (September 15).

ASSISTANT LECTURERS (2) IN THE DEPARTMENT OF CIVIL ENGINEERING—The Professor of Civil Engineering, Queen's University, Belfast (September 15).

RESEARCH OFFICER IN THE BUILDING RESEARCH SECTION, Melbourne—The Chief Scientific Liaison Officer, Australian Scientific Research Liaison Office, Africa House, Kingsway, London, W.C.2, quoting No. 1547 (September 18).

ASSISTANT LECTURER or LECTURER IN AGRICULTURAL ECONOMICS—The Registrar, The University, Leeds 2 (September 22).

EXPERIMENTAL OFFICERS and ASSISTANT EXPERIMENTAL OFFICERS AT THE DEPARTMENT OF ATOMIC ENERGY, Springfields, Lancs, to carry out experimental work arising from the metallurgical development involved in the production of atomic energy—The Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting F.391/48A (September 25).

PRINCIPAL RESEARCH OFFICER IN THE MICROBIOLOGICAL DIVISION of the National Chemical Research Laboratory, Pretoria—The South African Scientific Liaison Officer, Africa House, Kingsway, London, W.C.2 (September 30).

FISHERIES ASSISTANT AND NATURALIST (temporary) for research at the Marine Biological Station, Port Erin—The Registrar, The University, Liverpool (September 30).

CHAIR OF MECHANICAL ENGINEERING—The Registrar, The University, Leeds 2 (September 30).

UNIVERSITY LECTURER, preferably with special qualifications in Fluid Dynamics, Atomic Physics or Algebra—The Secretary of the Appointments Committee, Trinity College, Cambridge (September 30).

READERSHIP IN METALLURGY in the Department of Coal, Gas and Fuel Industries—The Registrar, The University, Leeds (September 30).

KENNEDY CHAIR OF MECHANICAL ENGINEERING at University College—The Academic Registrar, University of London, Senate House, London, W.C.1 (October 7).

DIRECTOR OF RESEARCH at the Hosiery Research Council's Research Station at Thorneywood House, Nottingham—The Director, National Hosiery Manufacturers' Federation, 104 Regent Road, Leicester (October 15).

CHAIR OF GEOLOGY at King's College—The Academic Registrar, University of London, Senate House, London, W.C.1 (October 25).

PROFESSOR OF CIVIL ENGINEERING, and a PROFESSOR OF ELECTRICAL ENGINEERING, at the Thomason College of Engineering (Roorkee University)—The High Commissioner for India, General Department, India House, Aldwych, London, W.C.2, quoting No. 412A (October 30).

CHAIR OF ZOOLOGY at King's College—The Academic Registrar, University of London, Senate House, London, W.C.1 (November 1).

FISHERIES OFFICERS in Malaya—The Director of Recruitment (Colonial Service), Sanctuary Buildings, Great Smith Street, London, S.W.1.

TSETSE FLY RANGER by the Government of Nyassaland, for tsetse fly survey and reclamation duties—The Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M.N.21794/3F.

SCIENTISTS (a) with research and practical experience in Coal Mining, Coal Preparation and Carbonization and Briquetting (Ref. TT/70), and (b) to take charge of the Chemistry Laboratories and with all-round research experience with specialist knowledge in Coal Chemistry, Analytical work, Metallurgy or Coal Tar (Ref. TT/71)—The National Coal Board, Establishments (General) Branch, Hobart House, Grosvenor Place, London, S.W.1, quoting appropriate Ref. No.

SUPERINTENDENT OF THE SCOTTISH LABORATORIES, involving responsibility for all chemical, mechanical and micrographic testing, and for advisory service to Scottish members—The Secretary, British Cast Iron Research Association, Alvechurch, Birmingham.

GEOLOGISTS for research on concentration of iron ore (a) with special knowledge of petrology or sedimentary rocks, (b) with experience of ore dressing problems—The Personnel Officer, British Iron and Steel Research Association, 11 Park Lane, London, W.1.

RESEARCH ASSISTANT IN STATISTICS (preferably with Degree in Mathematics)—The Lecturer in the Design and Analysis of Scientific Experiment, 91 Banbury Road, Oxford.

SENIOR ENGINEER IN THE LAND DRAINAGE BRANCH of the Public Works Department, Sierra Leone—The Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1.

LECTURER IN RADIO ENGINEERING—The Clerk, Northern Polytechnic, Holloway, London, N.7.

VISITING DEMONSTRATOR IN THE DEPARTMENT OF BACTERIOLOGY—The Secretary, King's College of Household and Social Science, Campden Hill Road, London, W.8.

## REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

### Catalogue

Technique: a Journal of Instrument Engineering. Vol. 2, No. 2, April. Pp. 9-16. Transmission Measuring Set, Type D-514-A. (Bulletin B.610.A.) Pp. 2. (Beckenham: Muirhead and Co., Ltd., 1948.)