

branching or forking of the roots. G. J. Raleigh⁶ reports, however, that with carrots in sand culture supplied with a complete nutrient solution, the addition of cow manure free from urine did not increase the amount of root branching, but cow or horse urine did cause forking. Attempting to discover what substances were responsible for this effect, Raleigh found that urea, ammonium hydroxide and ammonium carbonate all induced root branching, but a variety of growth-substances tried were without effect.

- ¹ Werner, H. O., *Proc. Amer. Soc. Hort. Sci.*, 38, 267 (1941).
² Pepkowitz, L. P., Latson, R. E., Gardner, J., and Owens, G., *Proc. Amer. Soc. Hort. Sci.*, 44, 468 (1944).
³ Brown, H. D., Miller, M. K., Alban, K., Schulkers, R., and Murmane, C., *Proc. Amer. Soc. Hort. Sci.*, 44, 465 (1944).
⁴ Ellis, M. K., *Proc. Amer. Soc. Hort. Sci.*, 40, 536 (1942).
⁵ Sakr, H. S., and Thompson, H. C., *Proc. Amer. Soc. Hort. Sci.*, 41, 343 (1942).
⁶ Raleigh, G. J., *Proc. Amer. Soc. Hort. Sci.*, 41, 347 (1942).

FORTHCOMING EVENTS

Saturday, May 19—Monday, May 21

ASSOCIATION OF SCIENTIFIC WORKERS (at the Beaver Hall, Garlick Hill, London, E.C.4), Annual Council Meeting.

Saturday, May 19

At 2-6 p.m.—Address by Prof. P. M. S. Blackett, F.R.S. (president), and discussion on future policy for science.

Sunday, May 20

10 a.m.—6 p.m.—Education policy. Debate on a proposal to initiate a political fund. Report on industrial work, negotiations with employers, etc. Motions on the Trades Disputes Act and the National Health Service.

Monday, May 21

10 a.m.—1 p.m. Relations with scientific organizations overseas.

Tuesday, May 22

INSTITUTION OF ELECTRICAL ENGINEERS (RADIO SECTION) (at Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Discussion on "Non-Ferrous Contact Springs" (to be opened by Dr. H. G. Taylor and Dr. L. B. Hunt).

QUEKETT MICROSCOPICAL CLUB (at the Royal Society, Burlington House, Piccadilly, London, W.1), at 7.30 p.m.—Mr. E. R. Newmarch: "Fluid Mounting, with special reference to Narcotizing and Fixing Polyzoa".

Wednesday, May 23

ROYAL SOCIETY OF ARTS (at John Adam Street, Adelphi, London, W.C.2), at 1.45 p.m.—Mr. Paul Adorjan: "Wire Broadcasting" (Thomas Howard Lecture).

PHYSICAL SOCIETY (at the Royal Institution, Albemarle Street, London, W.1), at 4 p.m. Presentation of Duddell Medal to Dr. F. W. Aston, F.R.S.

Prof. E. N. da C. Andrade: "The History and Future of the Physical Society" (Presidential Address).
 Annual General Meeting.

Thursday, May 24

INSTITUTION OF ELECTRICAL ENGINEERS (at the Institution, Savoy Place, Victoria Embankment, London, W.C.2), at 5.30 p.m.—Mr. J. C. Read: "High-Voltage Steel-Tank Mercury-Arc Rectifier Equipments for Radio Transmitters"; Mr. P. A. T. Bevan: "The Application of High-Voltage Steel-Tank Mercury-Arc Rectifiers to Broadcast Transmitters".

ASSOCIATION FOR SCIENTIFIC PHOTOGRAPHY (at Caxton Hall, London, S.W.1), at 7.0 p.m.—Annual General Meeting. At 7.30 p.m.: Mr. S. H. Thorpe: "Photography applied to Research in the Steel Industry".

Friday, May 25

ROYAL COLLEGE OF SURGEONS (at Lincoln's Inn Fields, London, W.C.2), at 4 p.m.—Prof. Arnold Sorsby: "Blindness in Great Britain: the Structure of the Blind Population and the Causes of Blindness".

ROYAL INSTITUTION (at 21 Albemarle Street, London, W.1), at 5 p.m.—Sir Geoffrey Taylor, F.R.S.: "The Internal Structure of Turbulent Fluid Flow".

APPOINTMENTS VACANT

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

SENIOR TECHNICAL OFFICER in the War Department Power Plants (Mechanical) Branch, Military College of Science, School of Tank Technology, Chertsey, Surrey—Ministry of Labour and National Service, Central (T. and S.) Register, Room 5/17, Sardinia Street, London, W.C.2 (quoting Reference No. C.2558.A) (May 22).

LECTURER IN MECHANICAL and/or ELECTRICAL ENGINEERING SUBJECTS at the Technical College, Cardiff—Director of Education, City Hall, Cardiff (May 22).

LECTURER IN THE CERAMICS DEPARTMENT, North Staffordshire Technical College, Stoke-on-Trent—The Principal (May 26).

LECTURER IN ELECTRICAL ENGINEERING at Aston Technical College, Birmingham—Chief Education Officer, Birmingham Education Committee (May 28).

SENIOR LECTURER IN AERODYNAMICS at the Royal Aircraft Establishment Technical School, Farnborough—Ministry of Labour and National Service, Central (T. and S.) Register, Room 5/17, Sardinia Street, London, W.C.2 (quoting Ref. No. C.2571.A) (May 28).

RESEARCH POMOLOGIST at the Department of Agriculture and Horticulture, University of Bristol, at Long Ashton Research Station—The Secretary and Registrar, University, Bristol, 8 (May 31).

PROFESSOR OF AGRICULTURE AND DIRECTOR OF THE COLLEGE FARM at the University College of North Wales, Bangor—Acting Registrar (May 31).

PROFESSOR OF MATHEMATICS at the University College of North Wales, Bangor—The Acting Registrar (May 31).

LECTURER IN ANTHROPOLOGY with special reference to West Africa, TUTOR IN COLONIAL WELFARE PROBLEMS, LECTURER IN ECONOMICS, and LECTURER IN INTERNATIONAL RELATIONS at the London School of Economics and Political Science—The Acting Secretary, London School of Economics, The Hostel, Peterhouse, Cambridge (May 31).

AN ASSISTANT CHIEF ENGINEER (MECHANICAL) (Ref. No. C.2589.XA), and an ASSISTANT CHIEF ENGINEER (CONSTRUCTION) (Ref. No. C.2590.XA) at the Tata Iron and Steel Co., Ltd., Jamshedpur, India—Ministry of Labour and National Service, Central (T. and S.) Register, Room 5/17, Sardinia Street, London, W.C.2 (quoting appropriate reference number) (May 31).

LECTURER IN GEOGRAPHY at King's College, University of London—The Secretary, King's College, Strand, London, W.C.2 (June 1).

LECTURER IN ELECTRICAL ENGINEERING, with knowledge of MECHANICAL ENGINEERING, at the Ipswich School of Technology—The Chief Education Officer, Education Department, 17 Tower Street, Ipswich (June 1).

DIRECTOR OF THE SCHOOL OF LIBRARIANSHIP, University of London—Academic Registrar, University of London, Richmond College, Richmond, Surrey (June 1).

PROFESSOR OF GEOGRAPHY at the London School of Economics and Political Science—The Academic Registrar, University of London, Richmond College, Richmond, Surrey (June 4).

LECTURER IN PHYSICS at Loughborough College, Leics.—The Registrar (June 7).

DEMONSTRATOR and also TECHNICIAN IN THE CHEMISTRY DEPARTMENT, Guy's Hospital Medical School, University of London—Prof. C. S. Gibson, F.R.S., Chemistry Department, Guy's Hospital Medical School, London Bridge, S.E.1 (June 16).

TWO UNIVERSITY LECTURERS IN MATHEMATICS at Cambridge—The Secretary of the Appointments Committee (Dr. R. Stoneley), Pembroke College, Cambridge (June 30).

DEMONSTRATOR IN METALLURGY in the University of Cambridge—The Secretary of the Appointments Committee of the Faculty of Physics and Chemistry (Dr. F. B. Kipping), University Chemical Laboratory, Pembroke Street, Cambridge (July 2).

READER IN ANTHROPOLOGY at the London School of Economics and Political Science—The Academic Registrar, University of London, Richmond College, Richmond, Surrey (July 9).

PROFESSOR OF BACTERIOLOGY at University College Hospital Medical School—The Academic Registrar, University of London, Richmond College, Richmond, Surrey (Sept. 24).

A LECTURER IN GEOGRAPHY and a LECTURER IN BIOLOGY at Avery Hill Training College, London—Principal, at Sandy Mount, Crosland Moor, Huddersfield.

LECTURER IN BOTANY at Birkbeck College, University of London—Clerk, Birkbeck College, London, E.C.4.

LECTURER IN MATHEMATICS at Woolwich Polytechnic, London, S.E.18—The Secretary and Clerk to the Governors.

RESEARCH ASSISTANT (female) with Biological or Zoological qualifications at the Christie Hospital and Holt Radium Institute, Withington, Manchester 20—The General Superintendent.

TEACHERS OF MATHEMATICS, CHEMISTRY, METALLURGY, MECHANICAL ENGINEERING at the County Secondary School and Cumberland Technical College, Workington—The Principal.

SENIOR ASSISTANT IN THE DEPARTMENT OF METALLURGY, two LECTURERS IN THE DEPARTMENT OF ELECTRICAL ENGINEERING, LECTURER IN BUILDING SCIENCE, LECTURER IN PHARMACEUTICAL SUBJECTS (temporary) at the Birmingham Central Technical College, Suffolk Street, Birmingham—The Principal.

REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

Great Britain and Ireland

Reports of the Council and Auditors of the Zoological Society of London for the year 1944. Pp. 101. (London: Zoological Society, 1945.) [284]

Institution of Gas Engineers. Copyright Publication No. 270: The Estimation of Small Quantities of Nitric Oxide. Pp. 4. (London: Institution of Gas Engineers, 1944.) [284]

The Physical and the Human Geography of the British Isles, with a map in eight Colours. (In English, and Polish.) By Zofia Holub-Pacowicz. Pp. 38. (Glasgow: Ksiaznica Polska, 1944.) [284]

Geological Survey of Great Britain. Wartime Pamphlet No. 42: Economic Geology of Canobie Coalfields (Dumfriesshire and Cumberland). By B. Hilton Barrett and Dr. J. A. Bichey, assisted by W. E. Graham; with Appendices by Dr. A. E. Trueman and Dr. R. Crookall. Pp. 54. (London: Geological Survey and Museum, 1945.) 2s. 6d. [284]