

## Appointments Vacant

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

HEAD OF THE ENGINEERING DEPARTMENT, Luton Technical College—The Principal (April 15).

PRINCIPAL of the Bengal Engineering College, Sibpur, Calcutta—The High Commissioner for India, India House, Aldwych, London, W.C.2 (April 17).

LECTURER IN PHYSICS in the Battersea Polytechnic, London, S.W.11—The Principal (April 21).

JUNIOR SCIENTIFIC OFFICERS in the Electricity, Metrology, Engineering and Aerodynamics Departments of the National Physical Laboratory, Teddington, Middlesex—The Director (April 24).

LECTURER IN THE HYGIENE AND PUBLIC HEALTH DEPARTMENT of the Battersea Polytechnic, London, S.W.11—The Principal (April 29).

PRINCIPAL of the Beaufoy Institute, S.E.11—The Education Officer (T.1), County Hall, S.E.1 (May 1).

ASSISTANT DEMONSTRATOR IN PHYSICS (Woman) in the Royal Holloway College, Englefield Green, Surrey—The Principal (May 1).

JUNIOR RESEARCH PHYSICIST for the National Research Council of Canada, Ottawa—The Secretary-Treasurer (May 15).

UNIVERSITY READER IN MECHANICAL ENGINEERING in the Imperial College of Science and Technology—The Academic Registrar, University of London, Senate House, W.C.1 (May 17).

## Reports and other Publications

(not included in the monthly Books Supplement)

### Great Britain and Ireland

Reports of the Progress of Applied Chemistry. Issued by the Society of Chemical Industry. Vol. 23, 1938. Pp. 861. (London: Society of Chemical Industry.) 7s. 6d.; to non-Members, 12s. 6d. [103]

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1835 (3054): Airscrew Blade Vibration. By J. Morris. Pp. 30. 4s. net. No. 1836 (3583): Elevator-fuselage Flutter. By G. A. Naylor. Pp. 8. 1s. 3d. net. No. 1838 (3140 and 3268): The Calculation of the Profile Drag of Aerofoils. By H. B. Squire and A. D. Young. Pp. 27. 4s. net. No. 1841 (3602): Hydraulic Operator for Remote Balance Control. By Dr. A. S. Halliday and C. H. Burge. Pp. 4+1 plate. 1s. net. (London: H.M. Stationery Office.) [103]

Imperial College of Science and Technology: Department of Chemical Technology. Report, 1937-1938. Pp. 24+4 plates. (London: Imperial College of Science.) [113]

Ministry of Health. Report of the Committee of Inquiry into the Anti-Tuberculosis Service in Wales and Monmouthshire. Pp. 291. (London: H.M. Stationery Office.) 4s. 6d. net. [113]

Philosophical Transactions of the Royal Society of London. Series A: Mathematical and Physical Sciences. No. 784, Vol. 237: Electromagnetic Induction in Non-uniform Conductors, and the Determination of the Conductivity of the Earth from Terrestrial Magnetic Variations. By B. N. Lahiri and A. T. Price. Pp. 509-540. 4s. No. 785, Vol. 237: The Accurate Analysis of Gaseous Mixtures. By B. Lambert and D. J. Borgars. Pp. 541-566. 3s. 6d. No. 786, Vol. 238: The Refraction and Dispersion of Air for the Visible Spectrum. By H. Barrell and J. E. Sears, Jr. Pp. 1-64. 8s. No. 787, Vol. 238: An Absolute Determination of the Acceleration due to Gravity. By J. S. Clark. Pp. 65-124. 7s. (London: Cambridge University Press.) [133]

Department of Scientific and Industrial Research. Methods for the Detection of Toxic Gases in Industry. Leaflet No. 5: Nitrous Fumes. Pp. iv+9. (London: H.M. Stationery Office.) 3d. net. [133]

Bacon Development Board. Bulletin No. 4: Selected Abstracts on Pig Production, 1938. Pp. 59. (London: Bacon Development Board.) 2s. 6d. [153]

Ministry of Health. Report on the Work of the Central Midwives Board for the Year ended 31st March 1938. Pp. 20. (London: H.M. Stationery Office.) 4d. net. [153]

Hull Museum Publications. No. 199: Early Lighting Appliances. By T. Sheppard. Pp. 16. No. 200: Catalogue of the Railway Museum (Paragon Station, Hull). By T. Sheppard. Pp. 32. 2d. No. 201: Hull Museums and Advertising. By T. Sheppard. Pp. 12. (Hull: Hull Museum.) [173]

Bacon Development Board. Bulletin No. 2: Substitutes for Cereals in Pig-Keeping. Revised edition. Pp. 70. (London: Bacon Development Board.) 2s. 6d. [173]

Department of Scientific and Industrial Research: Forest Products Research. Bulletin No. 14: Moisture Content Determination. By R. A. G. Knight. Second edition. Pp. iv+22+2 plates. (London: H.M. Stationery Office.) 9d. net. [203]

### Other Countries

Fouad I University. Bulletin of the Faculty of Science. No. 18: Binding of Water in relation to Drought Resistance, by Dr. Ahmed Mohamed Migahid; Two New Cyanophyceae from the Red Sea, by Prof. B. Frémy and A. H. Nasr. Pp. 34+2 plates. (Cairo: Fouad I University.) [93]

Estudos sobre dielectricos. Pelos B. Gross e P. S. Rocha. Pp. 61+2 plates. (Rio de Janeiro: Instituto Nacional de Tecnologia.) [93]

Geographical Index to the Memoirs, Vols. 1-54, Records 1-65, of the Geological Survey of India and General Reports of the Director for the Years 1897 to 1903. By T. H. D. La Touche. Pp. xvi+576. (Calcutta: Geological Survey of India.) 6.12 rupees; 11s. [93]

Zoological Series of the Field Museum of Natural History. Vol. 24, No. 1: New Central American Frogs of the Genus *Hypopachus*. By Karl P. Schmidt. Pp. 6. 10 cents. Vol. 24, No. 2: A New Lizard from Mexico, with a note on the Genus *Norops*. By Karl P. Schmidt. Pp. 7-10. 10 cents. Vol. 24, No. 3: A New Australian Lizard, with a Note on *Meniergis*. By Hobart M. Smith. Pp. 11-14. 10 cents. Vol. 24, No. 4: Notes on Mexican Reptiles and Amphibians. By Hobart M. Smith. Pp. 15-36. 25 cents. (Chicago: Field Museum of Natural History.) [103]

State of Connecticut: State Geological and Natural History Survey. Bulletin No. 60: Additions to the Check-List of the Insects of Connecticut (First Supplement to Bulletin No. 31), by Dr. Wilton Everett Britton; and Check-List of the Spiders of Connecticut, by Dr. Benjamin Julian Kaston. Pp. 202. (Hartford, Conn.: State Geological and Natural History Survey.) 1 dollar. [103]

Carnegie Institution of Washington. Year Book No. 37, July 1, 1937-June 30, 1938, with Administrative Reports through December 9, 1938. Pp. xxxiv+443. (Washington, D.C.: Carnegie Institution.) [103]

Biosophical Institute. Biosophical Series, No. 4: The Synthesis of Science and Religion. By Frederick Kettner. Pp. 22. (New York: Biosophical Institute.) 10 cents. [103]

Bulletin of the National Research Council. No. 102: Industrial Research Laboratories of the United States, including Consulting Research Laboratories. Sixth edition. Compiled by Callie Hull. Pp. 270. (Washington, D.C.: National Research Council.) Paper, 2.50 dollars; cloth, 3 dollars. [113]

Advisory Committee on Education. Staff Study No. 5: Principles and Methods of Distributing Federal Aid for Education. By Paul R. Mort, Eugene S. Lawler, and associates. Pp. ix+98. (Washington, D.C.: Government Printing Office.) 20 cents. [113]

Imperial Council of Agricultural Research. Miscellaneous Bulletin No. 22: Report on a Village Enquiry regarding Cattle and the Production and Consumption of Milk in seven Breeding Tracts of India. Pp. x+127. 3.8 rupees; 5s. 6d. Miscellaneous Bulletin No. 24: A Brief Survey of some of the Important Breeds of Cattle in India, Part 2: Prize Winners at the First All-India Cattle Show. Pp. ii+4+38 plates. 1.6 rupees; 2s. Miscellaneous Bulletin No. 27: Definition of Characteristics of Seven Breeds of Cattle of All-India Importance. Pp. iii+26+31 plates. 1.10 rupees; 2s. 6d. (Delhi: Manager of Publications.) [133]

Geological Survey of Uganda. Bulletin No. 3: A Series of Papers relating to the Geology of Uganda, with Bibliography and Provisional Geological Map. Pp. vii+196+8 plates. (Entebbe: Government Printer.) 10s. 6d. [133]

Mysore Geological Department. Popular Studies, No. 1: An Introduction to the Geology of Mysore. By R. Rama Rao. Pp. xiii+68+34 plates. (Bangalore: Government Press.) 1 rupee. [133]

Journal of the Indian Institute of Science. Vol. 22A, Part 3: Super-sonic Velocity in Gases and Vapours. Part 6: Specific Heats of the Vapours of Alcohols and Ethyl Acetate. By S. K. Kulkarni Jatkar. Pp. 39-58. (Bangalore: Indian Institute of Science.) 1.8 rupees. [133]

Indian Forest Records (New Series). Botany, Vol. 1, No. 4: A Sketch of the Vegetation of the Aka Hills, Assam; a Synecological Study. By Dr. N. L. Bor. Pp. ix+103-222+22 plates. (Delhi: Manager of Publications.) 6.6 rupees; 10s. [133]

Conseil Permanent International pour l'Exploration de la Mer. Bulletin hydrographique pour l'année 1937. Pp. xiv+106. (Copenhague: Andr. Fred. Hest et fils.) 7.00 kr. [133]

Thalès: recueil annuel des travaux de l'Institut d'Histoire des sciences et des techniques de l'Université de Paris. Année 3, 1936. Pp. 266. (Paris: Félix Alcan.) 50 francs. [133]

U.S. Department of Agriculture. Technical Bulletin No. 653: A Revision of the Mites of the Subfamily Tarsoneminae of North America, the West Indies, and the Hawaiian Islands. By H. E. Ewing. Pp. 64. (Washington, D.C.: Government Printing Office.) 15 cents. [173]

League of Nations: Economic Intelligence Service. Statistical Testing of Business-Cycle Theories. 1: A Method and its Application to Investment Activity. By J. Tinbergen. Pp. 164. (Geneva: League of Nations; London: George Allen and Unwin, Ltd.) 3s. 6d. [173]

Report of the Haffkine Institute for the Year 1937. By Lt.-Col. S. S. Sokhey. Pp. iii+88. (Bombay: Government Printing and Stationery Office.) 3 annas; 4d. [173]

India Meteorological Department. Scientific Notes, Vol. 7, No. 79: Atmospheric Electric Potential Gradient, Conductivity and Air-Earth Current on Electrically 'Quiet' Days at Colaba. By S. M. Mukherjee. Pp. 133-148+6 plates. (Delhi: Manager of Publications.) 1.4 rupees; 2s. [173]

Plant and Animal Communities. Comprising the Proceedings of the Conference on Plant and Animal Communities, held at the Biological Laboratory, Cold Spring Harbor, Long Island, New York, from August 29 to September 2, 1938. Edited by Theodore Just. Pp. 255. (Notre Dame, Ind.: University of Notre Dame.) [173]

### Catalogues, etc.

Matthey Cadmium Pigments. Pp. 12. (London: Johnson, Matthey and Co., Ltd.)

Cambridge Instruments for Food Storage and Transport. (Folder No. 66.) Pp. 6. (London: Cambridge Instrument Co., Ltd.)

Wild-Barfield Electric Furnaces for Works and Laboratories. Pp. 52. (London: Wild-Barfield Electric Furnaces, Ltd.)

Die Askania-Warte. Jahrgang 4, Nr. 16, März-April. Pp. 25-48. (Berlin-Friedenau: Askania-Werke A.G.)

History of Science and a few rare and important Old Medical Books. (Catalogue 51.) Pp. 76+8 plates. (London: E. P. Goldschmidt and Co., Ltd.)