

Appointments Vacant

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

ASSISTANT SUPERINTENDENT in the Central Workshops Division, Public Works Department, Irrigation Branch of the Government of the Punjab—High Commissioner for India, General Department, India House, Aldwych, W.C.2 (August 31).

ASSISTANT LECTURER IN ESTATE MANAGEMENT at the Royal Agricultural College, Cirencester—The Principal (September 1).

JUNIOR SCIENTIFIC OFFICERS at the Road Research Laboratory, Harmondsworth, West Drayton—Establishment Officer (J.38/10), Department of Scientific and Industrial Research, 16 Old Queen Street, S.W.1 (September 13).

SUPERINTENDENT OF THE MARINE DIVISION of the Meteorological Office—Under-Secretary of State (S.2.A.), Air Ministry, Adastral House, Kingsway, W.C.2 (September 30).

OFFICERS-IN-CHARGE (3 posts) of Electrical, Physical and Metrological Sections of the Australian National Standards Laboratory—Official Secretary, Australia House, Strand, W.C.2 (September 30).

LECTURER IN MATHEMATICS AND PHYSICS at the Natal University College, Durban—The Registrar of the College, P.O. Box 375, Pietermaritzburg (November 1).

ENGINEER for the Posts and Telegraphs Department of Malaya—Crown Agents for the Colonies (M.6330), 4 Millbank, S.W.1.

Reports and other Publications

(not included in the monthly Books Supplement)

Great Britain and Ireland

Association of Special Libraries and Information Bureaux. *Aslib Book-List*. Vol. 3, No. 3, July. Pp. 69-104. (London: Association of Special Libraries and Information Bureaux.) Free to members; subscription for non-members, 10s. 6d. per annum. [38]

The Board of Greenkeeping Research. *Report for 1937 and a General Account of the Work in Progress*. Pp. 76. (Bingley: St. Ives Research Station.) 2s. [58]

Technical Publications of the International Tin Research and Development Council. Series A, No. 77: *The Constitution of the Alloys of Tin with Bismuth*. By A. C. Davidson. Pp. 16+4 plates. (London: International Tin Research and Development Council.) Free. [58]

Philosophical Transactions of the Royal Society of London. Series A: *Mathematical and Physical Sciences*. Vol. 237, No. 778: *Application of the Phase Integral Method to the Analysis of the Diffraction and Refraction of Wireless Waves round the Earth*. By T. L. Eckerley and G. Millington. Pp. 273-310. 5s. Vol. 237, No. 779: *Tides in Oceans bounded by Meridians*. 3: *Ocean bounded by complete Meridian; Semidiurnal Tides*. By A. T. Doodson. Pp. 311-374. 8s. Vol. 237, No. 780: *On Bipartitional Functions*. By P. V. Sukhatme. Pp. 375-410. 4s. (London: Cambridge University Press.) [98]

Department of Scientific and Industrial Research. *Report by the Director of Fuel Research on a Demonstration of the Freeman Assay for Coal and Carbonaceous Materials; Demonstration witnessed May 1938*. Pp. iv+5. (London: H.M. Stationery Office.) 3d. net. [98]

Experimental Researches and Reports published by Department of Glass Technology, The University, Sheffield. Vol. 20, 1937. Pp. iv+300+30 plates. (Sheffield: The University.) 7s. 6d. [98]

Nineteenth Annual Report of the Ministry of Health, 1937-38. (Cmd. 5801.) Pp. xi+318. (London: H.M. Stationery Office.) 5s. net. [118]

Wild Life—and Rare in National Parks and Paradises round the World (Wild-flowers, Trees, Birds, Animals, Scenery). By Millicent H. Morrison. Pp. 42. (London: Green Cross Society.) 1s. [118]

University of Bristol. *The Annual Report of the Agricultural and Horticultural Research Station (The National Fruit and Cider Institute), Long Ashton, Bristol, 1937*. Pp. 294+15 plates. (Bristol: The University.) [158]

British Association for the Advancement of Science: *Gray-Milne Trust*. Tables for converting Geographic into Geocentric Angular Distances. By Dr. K. E. Bullen. Pp. vii+19. (London: British Association for the Advancement of Science.) [158]

Other Countries

Union of South Africa. *Report of the South African Museum for the Year ended 31st December 1937*. Pp. 18+2 plates. (Pretoria: Government Printer.) [38]

Bulletin of the American Meteorological Society. Vol. 19, No. 5: *Some American Papers and Notes on Climatic Variations*. Report of the American Committee of the International Commission of Climatic Variations, to the International Geographical Congress, Amsterdam, Holland, July 1938. Pp. 161-224. (Milton, Mass.: American Meteorological Society.) 50 cents. [38]

Union of South Africa: Department of Agriculture. *The Onderstepoort Library Index*. Pp. 153. (Pretoria: Government Printer.) 2s. 6d. [38]

U.S. Department of Agriculture. *Technical Bulletin No. 609: Chemical and Physical Properties of Certain Soils developed from Granitic Materials in New England and the Piedmont, and of their Colloids*. By Irvin C. Brown and Horace G. Byers. Pp. 56. (Washington, D.C.: Government Printing Office.) 10 cents. [38]

New York Zoological Society. *Report of the Director of the Aquarium*. Pp. 20. (New York: New York Zoological Society.) [38]

Report of the Aeronautical Research Institute, Tôkyô Imperial University. No. 164: *On the Standing Wave in a Water Column measured by a Broca-Tube*. By Yûtarô Nisimura and Yutaka Kohasi. Pp. 245-272. (Tôkyô: Kôgyô Tôsho Kabushiki Kaisha.) 45 sen. [58]

Hamburger Sternwarte in Bergedorf. *Zweites Bergedorfer Sternverzeichnis 1930-0*. 2 Nachtrag enthaltend Eigenbewegungen von 251 Sternen sowie Zusätze und Berichtigungen zum Sternverzeichnis. Herausgegeben von Dr. Richard Storr. Pp. 91-98. (Bergedorf: Hamburger Sternwarte.) [58]

The Rockefeller Foundation. *Annual Report, 1937*. Pp. ix+506. (New York: The Rockefeller Foundation.) [98]

Publications of the Observatory of the University of Michigan. Vol. 7, No. 4: *Spectrophotometric Determination of Stellar Temperatures; the Color Temperature of a Lyrae*. By Robley C. Williams. Pp. 93-125+1 plate. (Ann Arbor: University of Michigan.) [98]

Smithsonian Miscellaneous Collections. Vol. 97, No. 5: *Three Pictographic Autobiographies of Sitting Bull*. By M. W. Stirling. (Publication 3482.) Pp. ii+57+46 plates. (Washington, D.C.: Smithsonian Institution.) [98]

U.S. Department of Agriculture. *Technical Bulletin No. 616: The Reproductive Cycle of the Coyote*. By G. W. D. Hamlett. Pp. 12+2 plates. (Washington, D.C.: Government Printing Office.) 10 cents. [98]

University of Missouri Studies: *a Quarterly of Research*. Vol. 13, No. 2: *Distance Geometries; a Study of the Development of Abstract Metrics*. By Prof. Leonard M. Blumenthal. Pp. iv+145. (Columbia, Mo.: University of Missouri.) 1.25 dollars. [98]

Commonwealth of Australia: Council for Scientific and Industrial Research. *Bulletin No. 117: The Regional and Seasonal Incidence of Grasshopper Plagues in Australia*. By Dr. K. H. L. Key. Pp. 87+3 maps. Pamphlet No. 78: *A Copper Deficiency in Plants at Robe, South Australia*. 1: *Preliminary Investigations on the Effect of Copper and other Elements on the Growth of Plants in a "Coasty" Calcareous Sand at Robe, South Australia*, by D. S. Riceman and C. M. Donald; 2: *The Occurrence of "Reclamation Disease" in cereals in South Australia*, by C. S. Piper. Pp. 28+6 plates. Pamphlet No. 79: *A Report on the Conditions of Animal Production in Australia*. By Dr. John Hammond. Pp. 24. (Melbourne: Government Printer.) [98]

Indian Forest Records (New Series). *Utilization*, Vol. 1, No. 6: *Ascu—a Wood Preservative*. By the Forest Research Institute, Dehra Dun. Pp. iv+143-187+5 plates. 14 annas; 1s. 6d. *Entomology*, Vol. 3, No. 10: *Immature Stages of Indian Lepidoptera (I) Lymantriidae*. By J. C. M. Gardner. Pp. 187-212+4 plates. 1 rupee; 1s. 9d. (Delhi: Manager of Publications.) [98]

Bulletin of the Madras Government Museum. *New Series, Natural History Section*, Vol. 4, No. 2: *Supplement to the Flowering Plants of Madras City and its immediate Neighbourhood*. By E. Barnes. Pp. iii+46+7 plates. (Madras: Government Press.) 1.10 rupees. [98]

Yale University Publications in Anthropology. No. 18: *The Agricultural and Hunting Methods of the Navaho Indians*. By W. W. Hill. Pp. 194+4 plates. (New Haven, Conn.: Yale University Press; London: Oxford University Press.) 11s. 6d. net. [98]

City of Durban: *Durban Museum and Art Gallery. Annual Report for Municipal Year 1936-1937*. Pp. 12+4 plates. (Durban: Museum and Art Gallery.) [98]

Newfoundland Government: Department of Natural Resources. *Research Bulletin No. 4: Some Fishes of Newfoundland Waters (with Notes on the Distribution of Eggs and Larvæ)*. By Nancy Frost. Pp. 16+8 plates. 20 cents. *Research Bulletin No. 5: The Genus Ceratium and its Use as an Indicator of Hydrographic Conditions in Newfoundland Waters*. By Nancy Frost; with an Appendix on Hydrographic Conditions (reprinted from *Annual Report 1936-37*), by Anna M. Wilson. Pp. 15+9 plates. 20 cents. (St. John's, Newfoundland: Department of Public Works.) [108]

University of California Publications in American Archaeology and Ethnology. Vol. 35, No. 6: *The Kepel Fish Dam*. By T. T. Waterman and A. L. Kroeber. Pp. iii+49-80. (Berkeley, Calif.: University of California Press; London: Cambridge University Press.) 1s. 3d. net. [108]

Malta. *Report on the Work of the Museum Department for 1937-38*. Pp. xx. (Valletta: Valletta Museum.) [118]

Trinidad and Tobago: Forest Department. *Council Paper No. 30 of 1938: Administration Report of the Conservator of Forests for the Year 1937*. Pp. 16+1 map. (Trinidad and Tobago: Government Printer.) 12 cents. [158]

Journal of the Indian Institute of Science. Vol. 21 A, Part 1: *Activation and Clarifying Properties of Fuller's Earth, Part 4: Equilibrium in the Ionic Exchanges in Fuller's Earth*. By B. S. Kulkarni and S. K. K. Jatkar. Pp. 8. 12 annas. Vol. 21 A, Part 2: *A Preliminary Study of the Clarification of Extracts for Estimating Sugars in Plant Materials*. By A. V. Varadaraja Iyengar. Pp. 9-14. 10 annas. Vol. 21 A, Part 3: *Refractive Dispersion of Oils and Fats*. Part 1: *Dispersion of Ghee and Vegetable Oils*. By V. T. Athavale and S. K. K. Jatkar. Pp. 15-26. 1 rupee. Vol. 21 A, Part 4: *Researches on Utilization of Cane Molasses, Part 1: Dissolution of Bone by Fermentation of Cane Molasses*. By T. R. Bhaskaran, S. C. Pillai and V. Subrahmanyam. Pp. 27-40. 1.2 rupees. Vol. 21 A, Part 5: *Constitution of the so-called Dithionazolate of Martin Freund; Ring Closure of Hydrazo-Dithio-Dicarbonyl amide and its Mono- and Di-Substituted Derivatives*; Part 7: *Action of Heat*; Part 8: *Action of Sodium Hydroxide (Contd.)*; Part 9: *Action of Hydrochloric Acid (Contd.)*; Part 10: *Action of Acetic Anhydride (Contd.)*, by P. C. Guha and D. R. Mehta; Part 11: *Isomeric Changes of some Triazoles and Thiobiazoles*, by P. C. Guha and S. L. Janniah. Pp. 41-64. 1.12 rupees. Vol. 21 A, Part 6: *Coupling of Methone with Tetrazonium Compounds*. By Balkrishna H. Iyer. Pp. 65-76. 1 rupee. Vol. 21 A, Part 7: *System Sulphuric Acid-Ethers, Part 2: System Sulphuric Acid Propyl Ether*. By S. K. Kulkarni Jatkar and N. G. Gajendragad. Pp. 77-83. 1 rupee. (Bangalore: Indian Institute of Science.) [158]