

## Forthcoming Events

Monday, October 18

ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 4.—Sir Arthur Hurst: Harveian Oration.

ROYAL GEOGRAPHICAL SOCIETY (in the Connaught Rooms), at 7.45.—Annual General Meeting.

Thursday, October 21

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Sir George Lee: Presidential Address.

Friday, October 22

BRITISH ASSOCIATION (at the Royal Institution), at 5.—The Right Hon. J. Ramsay MacDonald, F.R.S.: "Science and the Community" (Radford Mather Lecture).

PHYSICAL SOCIETY, at 5.15.—Guthrie Lecture.

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Sir John Thornycroft: Presidential Address.

## Appointments Vacant

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

JUNIOR SCIENTIFIC OFFICER at the Forest Products Research Laboratory, Princes Risborough—The Establishment Officer, Department of Scientific and Industrial Research, 16 Old Queen Street, London, S.W.1 (October 20).

TECHNICAL OFFICER and ASSISTANT (grade III) for work in illuminating engineering at the Air Defence Experimental Establishment, Biggin Hill, Kent—The Superintendent (October 22).

PERMANENT ASSISTANT (male—grade III, metallurgy) in the Admiralty Technical Pool—The Secretary of the Admiralty (C.E. Branch) (quote C.E. 7851137) (October 23).

RESEARCH OFFICER (grade III) in the Agricultural Economics Research Institute, University of Oxford—The Secretary of the Committee for Rural Economy, School of Rural Economy, Oxford (November 1).

DIRECTOR of the Institute for Research in Agricultural Engineering, University of Oxford—The Secretary of the Committee for Rural Economy, School of Rural Economy, Oxford (November 15).

TWO ASSISTANTS in the British East African Meteorological Service—The Director of Recruitment (Colonial Service), 2 Richmond Terrace, S.W.1.

JUNIOR ASSISTANT for abstracting and library work at the Imperial Bureau of Fruit Production, East Malling, Kent—The Deputy Director.

## Official Publications Received

### Great Britain and Ireland

Technical Publications of the International Tin Research and Development Council. Series A, No. 59: Variation in Thickness of the Tin Coating of Tinplate, and its Effect on Porosity. By W. E. Hoare. Pp. ii+22. (London: International Tin Research and Development Council.) Free. [309]

University of Leeds: Department of Leather Industries. Report of the Advisory Committee on the Work of the Department during the Sessions 1935-36 and 1936-37. Pp. 8. (Leeds: The University.) [110]

Colonial Office. A Summary of Legislation relating to the Introduction of Plants into the Colonial Dependencies of the British Empire as at the end of December 1936. (Colonial No. 141.) Pp. 65. (London: H.M. Stationery Office.) 1s. net. [410]

Institution of Mechanical Engineers. General Discussion on Lubrication and Lubricants. Group 1: Journal and Thrust Bearings. Pp. 300. 2s. 6d. Group 2: Engine Lubrication. Pp. 216. 2s. 6d. Group 3: Industrial Applications. Pp. 162. 2s. 6d. Group 4: Properties and Testing. Pp. 226. 2s. 6d. (London: Institution of Mechanical Engineers.) [410]

### Other Countries

League of Nations. Report of the Committee for the Study of the Problem of Raw Materials. (Official No.: A.27.1937.II.B.) Pp. 62. (Geneva: League of Nations; London: George Allen and Unwin, Ltd.) 2s. [289]

Bulletin of the National Research Council. No. 100: An Experimental Study of the Problem of Mitogenetic Radiation. By Alexander Hollaender and Walter D. Claus. Pp. 96. (Washington, D.C.: National Research Council.) 1 dollar. [289]

Veröffentlichungen des Geophysikalischen Instituts der Universität Leipzig. Zweite Serie: Spezialarbeiten aus dem Geophysikalischen Institut und Observatorium. Band 8, Heft 2: Thermische Untersuchungen in Waldteichen. Von Johannes Herzog. Pp. 77-132. Band 8, Heft 3: Die Strömungen der Atmosphäre über Teneriffa. Von Fritz Müller. Pp. 133-180. Band 8, Heft 4: Beiträge zum Ozonproblem; Die Rolle des Ozons im Wärmehaushalt der Stratosphäre. Von Rudolf Penndorf. Pp. 181-236. Band 8, Heft 5: Messungen mit dem Bergmannschen Sichtmesser. Von Rinfold Strange. Pp. 287-346. Band 9, Heft 1: Stratosphärische Steuerung und Wellensteuerung. Von Karl Schmiedel. Pp. 102. Band 9, Heft 2: Skagerrak-Zyklogen; Analysen der Wetterlagen vom 25-27 März 1930 und vom 2-4 März 1931. Von Hans Georg Macht. Pp. 103-218. Band 10, Anhang 1: Untersuchungen über die von Maschinen, Fahrzeugen und Wind hervorgehenden Boden- und Gebäudeschütterungen nach Registrierungen eines Benioff-Vertikal-Seismographen. Von Gerhard Fritzsche. Pp. 82. (Leipzig: Geophysikalisches Institut der Universität.) [289]

Proceedings of the American Academy of Arts and Sciences. Vol. 72, No. 1: Postulates for Assertion, Conjunction, Negation and Equality. By Edward V. Huntington. Pp. 44. 50 cents. Vol. 72, No. 2: Polymorphic Transitions of 35 Substances to 50,000 Kg/Cm<sup>2</sup>. By P. W. Bridgman. Pp. 45-136. 1.45 dollars. (Boston, Mass.: American Academy of Arts and Sciences.) [289]

U.S. Department of the Interior: Office of Education. Bulletin, 1937, No. 7: Student Health Services in Institutions of Higher Education. By Dr. James Frederick Rogers. Pp. v+61. 10 cents. Leaflet No. 34: State Library Agencies as Sources of Pictorial Material for Social Studies. By Effie G. Bathurst, Elias Katz and Edith A. Lathrop. Pp. 9. 5 cents. Pamphlet No. 72: Status of Rural-School Supervision in the United States in 1935-36. By W. H. Gaumnitz. Pp. iii+20. 10 cents. Pamphlet No. 75: Safety and Health of the School Child; a Self-Survey of School Conditions and Activities. By Dr. James Frederick Rogers. Pp. 29. 10 cents. (Washington, D.C.: Government Printing Office.) [289]

U.S. Department of Agriculture. Miscellaneous Publication No. 251: A History of Agricultural Experimentation and Research in the United States, 1607-1925; including a History of the United States Department of Agriculture. By Alfred Charles True. Pp. vi+321. (Washington, D.C.: Government Printing Office.) 25 cents. [289]

Proceedings of the United States National Museum. Vol. 84, No. 3021: Observations on the Birds of West Virginia. By Alexander Wetmore. Pp. 401-442. (Washington, D.C.: Government Printing Office.) [289]

Smithsonian Miscellaneous Collections. Vol. 96, No. 4: Indian Sites below the Falls of the Rappahannock, Virginia. By David I. Bushnell, Jr. (Publication 3441.) Pp. v+65+21 plates. (Washington D.C.: Smithsonian Institution.) [289]

Carnegie Institution of Washington. Principles and Methods of Tree-Ring Analysis. By Waldo S. Glock. (Publication No. 486.) Pp. viii+100+14 plates. (Washington, D.C.: Carnegie Institution.) [110]

Report of the Aeronautical Research Institute, Tōkyō Imperial University. No. 154: Notes on the Lift and Moment of a Plane Aerofoil which touches the Ground with its Trailing Edge. By Susumu Tomotika and Isao Imai. Pp. 519-571. (Tōkyō; Kōgyō Toshō Kabushiki Kaisha.) 60 sen. [410]

Journal of the Indian Institute of Science. Vol. 20A, Part 1: Contributions to the Study of Spike Disease of Sandal (*Santalum album* Linn.). Part 17: Some Factors relating to the Abnormal Accumulation of Carbohydrates in Diseased Tissues. By A. V. Varadaraja Iyengar. Pp. 14. (Bangalore: Indian Institute of Science.) 1.2 rupees. [410]

University of Illinois: Engineering Experiment Station. Bulletin No. 292: Tests of Steel Columns, Thin Cylindrical Shells, Laced Channels, Angles. By Prof. Wilbur M. Wilson. Pp. 40. 50 cents. Bulletin No. 293: The Combined Effect of Corrosion and Stress Concentration at Holes and Fillets in Steel Specimens subjected to Reversed Torsional Stresses. By Thomas J. Dolan. Pp. 40. 50 cents. Bulletin No. 294: Tests of Strength Properties of Chilled Car Wheels. By Prof. E. Richart, Rex L. Brown and Paul G. Jones. Pp. 68. 85 cents. Bulletin No. 295: Tests of Thin Hemispherical Shells subjected to Internal Hydrostatic Pressure. By Prof. Wilbur M. Wilson and Joseph Marin. Pp. 20. 30 cents. (Urbana, Ill.: University of Illinois.) [410]

Egyptian Government: Ministry of Public Works. Annual Report for the Year 1929-1930. English Version. Part 1. Pp. v+138+13 plates. (Cairo: Government Press.) P.T. 50. [410]

### Catalogues, etc.

Electric Heat-Treatment Furnaces. Pp. 6. (London: Wild-Barfield Electric Furnaces, Ltd.)

The Hammond Organ, Model E. Pp. 4. (London: Boosey and Hawkes, Ltd.)

Black Light Equipment. Pp. 4. (Cincinnati, Ohio: Science Laboratories, Inc.)

A Pamphlet on Cambridge CO<sub>2</sub> Apparatus for the Steam Raiser. (Folder No. 60.) Pp. 6. (London: Cambridge Instrument Co., Ltd.)

Standard Meteorological Instruments. (List M.3.) Pp. 136. (London: Negretti and Zambra.)

Laboratory Balances and related Weighing Apparatus. (Catalogue No. 15B, Section 2.) Pp. vi+66. (London: Griffin and Tatlock, Ltd.)

Galvanometers. (Galvo 36.) Pp. 12. (Delft: P. J. Kipp and Zonen; London: W. Edwards and Co.)

Watson's Microscope Record. No. 42, September. Pp. 24. (London: W. Watson and Sons, Ltd.)

Important Books in the History of Science. (Catalogue 45.) Pp. 60+8 plates. (London: E. P. Goldschmidt and Co., Ltd.)