

Forthcoming Events

Monday, March 6

VICTORIA INSTITUTE, at 4.30—(in Committee Room B, Central Hall, Westminster).—Dr. J. Burnett Rae: "Psychology and the Problem of Inadequacy" (Dr. A. T. Schofield Memorial Paper).

UNIVERSITY OF LEEDS, at 5.15.—Prof. A. C. Chibnall: "The Biochemistry of Plant Waxes".

ROYAL SOCIETY OF ARTS, at 8—(Cantor Lectures).—Arthur Stephenson: "Welding and Allied Processes for Engineering Purposes" (succeeding lectures on March 13 and 20).

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Sir Douglas Mawson: "Kerguelen".

Thursday, March 9

CHEMICAL SOCIETY, at 7—(extra meeting at the University of Manchester).—Prof. E. K. Rideal: "How Chemical Reactions Go".

CHADWICK PUBLIC LECTURE, at 8—(at the Royal Sanitary Institute).—Dr. E. Killiek Millard: "Housing".

Friday, March 10

ROYAL INSTITUTION, at 9.—Lord Rutherford: "Recent Researches on Transmutation of the Elements".

INSTITUTE OF METALS, March 8-9.—Annual General Meeting.

Official Publications Received

GREAT BRITAIN AND IRELAND

Ministry of Agriculture and Fisheries. Report of the Reorganisation Committee for Milk. (Economic Series No. 38.) Pp. 228+xx. (London: H.M. Stationery Office.) 6d. net.

Economic Advisory Council. Tsetse Fly Committee Report: Developments in the Treatment of Animal and Human Trypanosomiasis and in Tsetse Fly Control in the Period 1925-31. Pp. 27. (London: H.M. Stationery Office.) 6d. net.

Census of Nigeria, 1931. Vol. 1: Nigeria. By S. M. Jacob. Pp. viii+155. 10s. Vol. 2: Census of the Northern Provinces. By N. J. Brooke. Pp. ii+234. 12s. Vol. 3: Census of the Southern Provinces. By H. B. Cox. Pp. ii+46. 4s. Vol. 5: Medical Census, Northern Provinces. By Dr. R. C. Jones. Pp. ii+92. 7s. Vol. 6: Medical Census, Southern Provinces. By Dr. J. G. S. Turner. Pp. iv+101. 8s. (London: The Crown Agents for the Colonies.)

Transactions of the Royal Society of Edinburgh. Vol. 57, Part 2, No. 19: Notes on the Kidston Collection of Fossil Plant Slides. No. 1: The Anatomy of the Axis of *Lepidodendron Brownii* Unger sp., with Special Reference to the Relationship between this Stem and *Lepidostrobus Brownii* Unger sp. By Mary G. Calder. Pp. 547-555+3 plates. 2s. 3d. Vol. 57, Part 2, No. 20: The Metamorphism of the Deeside Limestone, Aberdeenshire. By Dr. Arthur G. Hutcheson. Pp. 557-592. 4s. 6d. Vol. 57, Part 2, No. 21: The Restoration and Regeneration of the Epithelium and Endometrium of the Uterus of *Cavia* Post Partum in Non-Pregnant Animals. By William J. Hamilton. Pp. 593-600+1 plate. 1s. 6d. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.)

Proceedings of the Royal Society of Edinburgh, Session 1932-1933. Vol. 53, Part 1, No. 4: On Properties of Null Geodesics, and their Application to the Theory of Radiation. By Dr. W. O. Kermack, Dr. W. H. M'Crear and Prof. E. T. Whittaker. Pp. 31-47. 1s. 6d. Vol. 53, Part 1, No. 5: Expansion and Contraction of Coal caused respectively by the Sorption and Discharge of Gas. By Prof. Henry Briggs and R. P. Shuha. Pp. 48-53. 9d. Vol. 53, Part 1, No. 6: On the Graduation of Data by the Orthogonal Polynomials of Least Squares. Pp. 54-78. 2s. 3d. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.)

OTHER COUNTRIES

U.S. Department of Agriculture. Miscellaneous Publication No. 98: Market Diseases of Fruits and Vegetables—Potatoes. By Prof. George K. K. Link and Glen B. Ramsey. Pp. 63+15 plates. 30 cents. Miscellaneous Publication No. 121: Market Diseases of Fruits and Vegetables—Tomatoes, Peppers, Eggplants. By Glen B. Ramsey and Prof. George K. K. Link. Pp. 44+11 plates. 20 cents. (Washington, D.C.: Government Printing Office.)

Cornell University: Agricultural Experiment Station. Bulletin 541: Soils in relation to Fruit Growing in New York. Part 1: A Detailed Soil Survey of the Hilton Area, Monroe County. By A. T. Sweet and Joseph Oskamp. Pp. 16+1 map. Bulletin 542: Killing Perennial Weeds with Chlorates during Winter. By W. C. Muenschner. Pp. 8. Bulletin 549: An Analysis of the Loaming Operations of the Federal Land Bank of Springfield from its Organisation in March 1917 to May 31, 1929. By F. F. Hill. Pp. 107. (Ithaca, N.Y.)

Differences between certain of the North American Indian Tribes as shown by a Microscopical Study of their Head Hair. By George Woodbury and Edna T. Woodbury. Pp. 37. (Denver, Colo.: State Historical Society of Colorado.)

Bulletin of the Vanderbilt Marine Museum. Vol. 1, Art. 3: Scientific Results of the Yacht *Alva* World Cruise, July 1931 to March 1932, in Command of William K. Vanderbilt. Fishes. By N. A. Borodin. Pp. 65-101+2 plates. (Cambridge, Mass.)

Field and Laboratory: Contributions from the Science Departments of Southern Methodist University. Vol. 1, No. 1, November, 1932. Pp. 32. (Dallas, Texas.)

Bulletin of the Geological Society of America, Vol. 43. Gondwana Land Bridges, by Charles Schuchert; Isthmian Links, by Bailey Willis. Pp. 875-952+plates 24-29. (New York City.)

Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 84. A New Species of Sailfish, *Istiophorus brookei*, from Tahiti. By Henry W. Fowler. Pp. 403-404+plate 20. (Philadelphia.)

Smithsonian Miscellaneous Collections. Vol. 87, No. 16: Carbon Dioxide Assimilation in a Higher Plant. By W. H. Hoover, Earl S. Johnston and F. S. Brackett. (Publication 3186.) Pp. 19+2 plates. Vol. 87, No. 17: Absolute Intensities in the Visible and Ultra-Violet Spectrum of a Quartz Mercury Arc. By E. D. McAlister. (Publication 3187.) Pp. 18. (Washington, D.C.: Smithsonian Institution.)

U.S. Department of Commerce: Bureau of Standards. Bureau of Standards Journal of Research. Vol. 9, No. 6, December, Research Papers Nos. 501-511. Pp. 711-860. 25 cents. Vol. 10, No. 1, January, Research Papers Nos. 512-521. Pp. 149. 25 cents. (Washington, D.C.: Government Printing Office.)

The Felidae of Rancho La Brea. By John C. Merriam and Chester Stock. (Publication No. 422.) Pp. xvi+231+43 plates. (Washington, D.C.: Carnegie Institution.)

Observatoire de Zi-ka-wei: Annales de Zô-Sè. Tome 17, Fasc. 5: Théorie approchée de la petite planète (113) Amalthea. By E. de la Villemarqué. Pp. D49. Tome 17, Fasc. 6: Observations photographiques d'Eros. Pp. E68. (Zi-ka-wei.)

Sveriges Geologiska Undersökning. Arbetstafel för År 1931. Pp. 12. (Stockholm: P. A. Norstedt and Söner.) 0.50 kr.

Trinidad and Tobago. Notes on the Production of Sugar Cane. Taken by S. M. Gilbert at the Fourth Triennial Conference of the International Society of Sugar Cane Technologists held at Puerto Rico in March, 1932. Pp. 35+3 plates. (Trinidad: Government Printing Office.) 2s.

Carnegie Institution of Washington. Year Book No. 31, July 1, 1931, to June 30, 1932; with Administrative Reports through December 9, 1932. Pp. xi+392. (Washington, D.C.: Carnegie Institution.)

Proceedings of the United States National Museum. Vol. 81, Art. 17: The Helminths parasitic in the Amphibia and Reptilia of Houston, Texas, and Vicinity. By Paul D. Harwood. (No. 2940.) Pp. 71+5 plates. (Washington, D.C.: Government Printing Office.)

Education, India. Occasional Reports No. 16: A Report on the Use of the Mother-tongue as the Medium of Instruction and Examination in certain Subjects for the Matriculation Examination of the Bombay University. By M. R. Paranjpe. Pp. vii+47. (Calcutta: Government of India Central Publication Branch.) 10 annas; 1s.

Memoirs of the Asiatic Society of Bengal. Vol. 9, No. 6: Geographic and Oceanographic Research in Indian Waters. Part 6: Temperature and Salinity of the Deeper Waters of the Bay of Bengal and Andaman Sea. By Lieut.-Col. R. B. Seymour Sewell. Pp. 357-424. 2.13 rupees. Vol. 11, No. 5: Algal Flora of the Chilka Lake. By Kalipada Biswas. Pp. 165-198+plates 25-32. 3.15 rupees. (Calcutta.)

Journal and Proceedings of the Asiatic Society of Bengal. New Series, Vol. 26, 1930, No. 4. Pp. 419-588. (Calcutta.) 5.10 rupees.

Commonwealth of Australia: Council for Scientific and Industrial Research. Bulletin No. 71: Investigation on Irrigated Pastures. 1: The Yield and Botanical Composition of an Irrigated Permanent Pasture under various Systems of Pasture Management, by Dr. A. E. V. Richardson; 2: The Chemical Composition of Irrigated Pastures at Wood's Point, South Australia, by H. P. C. Gallus. Pp. 45+7 plates. (Melbourne: H. J. Green.)

CATALOGUES

British Industries Fair, 1933: Birmingham Section, February 20th to March 3rd, 1933. Supplementary Guide to Electrical Exhibits: Plan and List of Exhibitors. Pp. 16. (London: The British Electrical Development Association, Inc.)

Newton's Episcopes: High Intensity Models fitted with Special Diffusion Reflectors. Pp. 6. (London: Newton and Co.)

Catalogue of Science and Technology, No. III. Annotated and Classified List of Rare and Standard Works on Exact and Applied Science. Part 10: XIII. 2, Civil Engineering. (No. 836.) Pp. 1017-1112. (London: Henry Sotheran, Ltd.)

The Notched Echelon Cell for Rapid Absorption Spectrophotometry in the Visible and Ultra-violet Regions. (Publication No. 178.) Pp. 11. The Spekker Ultra-Violet Spectrophotometer. (Publication No. 184.) Pp. 4. The Campbell Solution Calculator for rapidly calculating the Behaviour of Solutions. (Publication No. 177.) Pp. 4. (London: Adam Hilger, Ltd.)

Degussa Lilliput Gas-heated Laboratory Furnace for 600-1900° C. Pp. 4. Degussa-Lilliput Furnace for Metal Melting. Pp. 2. High Temperature Furnaces for Gas-heating up to 2000° C. Pp. 8. (London: Bush, Beach and Gent, Ltd.)

Watson's Microscope Record. No. 28, January. Pp. 24. (London: W. Watson and Sons, Ltd.)

Lettres, Arts, Sciences. Pp. 32. (Paris: Librairie Delagrave.)

Catalogue de livres anciens et modernes rares ou curieux relatifs à l'Orient. (No. 23.) Pp. 119-188. (Paris: Librairie-Maisonneuve.)

Catalogue of Scientific Books and Publications of Learned Societies. (No. 404.) Pp. 84. (Cambridge: W. Heffer and Sons, Ltd.)

A List of two recently purchased Collections of Botanical Books. (No. 205.) Pp. 16. (London: Dulau and Co., Ltd.)

Wild-Barfield Forced Air Circulation Furnaces. Pp. 8. (London: Wild-Barfield Electric Furnaces, Ltd.)