

involved in the statistical method of ascertaining the air-pressure coefficient of ultra-radiation are taken into account. ARMIN DADIEU and HANS KOPPER: The Raman spectrum of liquid deuterium chloride. This spectrum consists of a wide, diffuse band of low intensity and with a maximum at 2041  $\text{cm}^{-1}$ . Under analogous conditions, ordinary liquid hydrogen chloride furnishes a band at 2822  $\text{cm}^{-1}$ . GUIDO MACHEK: The action of aromatic hydroxy-sulphonic acids on hippuric acid (1). The interaction of hippuric acid and the three isomeric cresols, phenol and  $\beta$ -naphthol yields salt-like molecular compounds of the hydroxybenzene (or naphthol) with glycocholl (liberated from the hippuric acid) in equimolecular proportions. LEOPOLD SCHMID and CHARLOTTE KEMENY: Investigation on *Flores verbasci*. The identity of the acid found, together with the colouring matter crocetin, in these flowers with  $n-1:14$ -tetradecandicarboxylic acid is confirmed by the synthesis of the acid from sebacic acid, by way of decandiol. HANS PRZIBRAM: The life of the water-beetle, *Hydrocus piceus*, L. (Col. Hydroph.), without antennæ. The feelers are not unconditionally necessary to the breathing of *Hydrocus* in water.

### Forthcoming Events

[Meetings marked with an asterisk are open to the public.]

#### Sunday, May 5

BRITISH MUSEUM (NATURAL HISTORY), at 3 and 4.30.—M. A. Phillips: "Birds".\*

#### Tuesday, May 7

UNIVERSITY COLLEGE, LONDON, at 5.—Dr. E. W. Fish: "The Physiology of the Teeth" (succeeding lecture on May 14).\*

INSTITUTION OF CIVIL ENGINEERS, at 6.—Prof. O. T. Jones: "Geophysics" (James Forrest Lecture).

#### Wednesday, May 8

INSTITUTE OF METALS, at 8.—(at the Institution of Mechanical Engineers, Storey's Gate, Westminster, S.W.1).—Prof. W. L. Bragg: "Atomic Arrangements in Metals and Alloys" (Annual May Lecture).

#### Thursday, May 9

ST. MARY'S HOSPITAL, LONDON, at 5.—Prof. E. D. Adrian: "The Electrical Activity of the Brain".\*

KING'S COLLEGE, LONDON, at 5.30.—Hugh Braun: "The Development of the Castle in England and Wales" (succeeding lectures on May 16, 23 and 30).\*

#### Friday, May 10

ROYAL INSTITUTION, at 9.—Dr. C. S. Myers: "The Scientific Approach to Vocational Guidance".

ELECTRICAL ASSOCIATION FOR WOMEN, May 8–11.—Annual Conference to be held in Manchester and Salford.

Margaret, Lady Moir: President.

### Official Publications Received

#### GREAT BRITAIN AND IRELAND

Reports of the Council and Auditors of the Zoological Society of London for the Year 1934, prepared for the Annual General Meeting to be held on Monday, April 29th, 1935. Pp. 103. (London: Zoological Society.)

The Scientific Proceedings of the Royal Dublin Society. Vol. 21 (N.S.), No. 22: Investigations on the Control of Seedling Diseases of Sugar Beet. By William Hughes. Pp. 205–212. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 6d.

Bristol Museum and Art Gallery. Publication 19: Explanatory Guide to the Geological Relief Map of the Bristol District. By Prof. S. H. Reynolds. Second edition. Pp. 24. (Bristol: Bristol Museum and Art Gallery.) 3d.

Imperial Agricultural Bureaux. Fifth Annual Report of the Executive Council, 1933–1934. Pp. 51. (London: H.M. Stationery Office.) 4s. net.

Agricultural Progress: the Journal of the Agricultural Education Association. Vol. 12, 1935. Pp. 204. (Cambridge: W. Heffer and Sons, Ltd.) 5s. net.

Brussels Exhibition 1935: British Chemical Exhibit. Organised by the Association of British Chemical Manufacturers. Pp. 87. (London: Association of British Chemical Manufacturers.)

#### OTHER COUNTRIES

U.S. Department of Agriculture. Circular No. 334: Characters Useful in distinguishing Larvæ of *Popillia japonica* and other introduced Scarabæidæ from Native Species. By Robert J. Sim. Pp. 20. (Washington, D.C.: Government Printing Office.) 5 cents.

Comptes rendus de la septième séance de la Commission Géodésique Baltique réunie à Léningrad et Moscou du 12 au 19 Septembre 1934. 1<sup>re</sup> partie: Procès-verbaux et rapports. Rédigés par Ilmari Bonsdorff. Pp. iii+182. 2<sup>e</sup> partie: Communications. Rédigés par Ilmari Bonsdorff. Pp. ii+429. (Helsinki: Commission Géodésique Baltique.)

Obras completas y Correspondencia científica de Florentino Ameghino. Vol. 14: Investigaciones de morfología filogenética en los molares superiores de los Ungulados. Edición Oficial ordenada por el Gobierno de la Provincia de Buenos Aires. Dirigida por Alfredo J. Torcelli. Pp. 619+271 plates. (La Plata.)

Carnegie Endowment for International Peace. Annual Report for 1934 of the Division of Intercourse and Education. By Nicholas Murray Butler. Pp. 68+8 plates. (Washington, D.C., and New York: Carnegie Endowment for International Peace.)

Field Museum of Natural History. Report Series, Vol. 10, No. 2: Annual Report of the Director to the Board of Trustees for the Year 1934. (Publication 336.) Pp. 137–280+plates 13–24. (Chicago: Field Museum of Natural History.) 1 dollar.

New York Academy of Sciences. Scientific Survey of Porto Rico and the Virgin Islands. Vol. 14, Part 2: Insects of Porto Rico and the Virgin Islands—Homoptera (excepting the Sternorrhynchi). By Herbert Osborn. Pp. 111–260. (New York City: New York Academy of Sciences.) 2 dollars.

Imperial College of Tropical Agriculture: Low Temperature Research Station. Memoir No. 1: The Storage of Avocado Pears. By C. W. Wardlaw and E. R. Leonard. Pp. 20. (Trinidad: Imperial College of Tropical Agriculture.) 2s. net.

Bulletin of the American Museum of Natural History. Vol. 68, Art. 4: Wallace's Line and the Distribution of Anglo-Australian Mammals. By Henry C. Raven. Pp. ii+179–293. (New York: American Museum of Natural History.)

South Australia: Department of Mines. Mining Review for the Half-Year ended June 30th, 1934. (No. 60.) Pp. 72+2 plates. (Adelaide: Government Printer.)

Journal of the Faculty of Agriculture, Hokkaido Imperial University. Vol. 36, Part 2: Mycological and Pathological Studies on the Downy Mildew of Italian Millet. By Makoto Hiura. Pp. 121–284+plates 9–14. (Tokyo: Maruzen Co., Ltd.)

Bernice P. Bishop Museum. Occasional Papers. Vol. 10, No. 18: New Nemertean from Hawaii. By W. R. Coe. Pp. 9. Vol. 10, No. 19: Taxonomic Studies of Raiatean Plants. By John William Moore. Pp. 8. Vol. 10, No. 20: Anatomy of Hawaiian Peperomias. By T. G. Tuncker and William D. Gray. Pp. 19. Vol. 10, No. 21: Revised List of Hawaiian Ants. By William Morton Wheeler. Pp. 21. Vol. 10, No. 22: Check List of the False Scorpions of Oceania. By J. C. Chamberlin. Pp. 14. Vol. 10, No. 23: Indo-Pacific Terrestrial Talitridæ. By K. Stephensen. Pp. 20. Vol. 10, No. 24: New and Rare Polynesian Crustacea. By Charles Howard Edmondson. Pp. 40. (Honolulu: Bernice P. Bishop Museum.)

Memoirs of the Bernice P. Bishop Museum. Vol. 11, No. 6: The Fishes of Oceania, Supplement 2. By Henry W. Fowler. Pp. 385–466. (Honolulu: Bernice P. Bishop Museum.)

Bernice P. Bishop Museum. Bulletin 113: Society Islands Insects. (Pacific Entomological Survey, Publication 6.) Pp. 156. Bulletin 114: Marquesan Insects. 2. (Pacific Entomological Survey, Publication 7.) Pp. ii+378. Bulletin 123: Archaeology of the Pacific Equatorial Islands. By Kenneth P. Emory. (Whippoorwill Expedition, Publication No. 4.) Pp. 43+5 plates. Bulletin 125: Hawaiian Helicidæ. By Marie C. Neal. Pp. 102. Bulletin 126: Outline of Hawaiian Physical Therapeutics. By E. S. Craighill Handy, Mary Kawena Pukui and Katherine Livermore. Pp. 51. Bulletin 127: The Legends of Maui and Tahaki. Translated by J. F. Stimson. Pp. 100. Bulletin 128: Flowering Plants of Samoa. By Erling Christophersen. Pp. iii+221. Bulletin 129: Polychæta from Hawaii. By Maximilian Holly. Pp. 33. (Honolulu: Bernice P. Bishop Museum.)

#### CATALOGUES

Foyles Catalogue of Books on Folklore, Comparative Religion, Mythology (New and Secondhand). Pp. 12. (London: W. and G. Foyle, Ltd.)

Books, Periodicals and Pamphlets on Geology, including Palaeontology, Mineralogy and Mining. (New Series, No. 40.) Pp. 44. (London: Wheldon and Wesley, Ltd.)

Electrical Measuring Instruments. (Special List No. 5.) Pp. 32. Polarograph. Pp. 2. (Köln: E. Leybold's Nachfolger A.-G.; London: W. Edwards and Co.)

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