

tained their ancient courses against the uplift; earth movements have determined the formation of the ranges; while isostasy, through rock flowage, has determined their form, namely, as undulations balancing each other in positions of variable unstable equilibrium. Earthquakes and volcanoes are incidental features. The cordillera and the main continental plateaux are physiographic unities, all being dependent upon a deep underlying and world-wide control operating in late and post-Tertiary time. A. R. PENFOLD and F. R. MORRISON: The essential oils of *Eucalyptus micrantha*, including a form rich in piperitone. The essential oil of *Eucalyptus micrantha* (type) is of no economic value, but that obtained from the new variety, var. *A.*, is of potential value since it contains 40-50 per cent piperitone. M. B. WELCH: Equilibrium moisture content of seasoned timber. Whilst it was found that a number of timbers indoors in Sydney only showed a mean variation of about 2.0 per cent moisture, at Broken Hill and Hay the variation was nearly 8.0 per cent, and whilst individual timbers in country districts during summer contained less than 5 per cent, in winter the figure reached was nearly 19.0 per cent moisture. Of a number of timbers used, Queensland maple showed the greatest fluctuation in moisture content.

Forthcoming Events

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

Monday, March 12

VICTORIA INSTITUTE, at 4.30.—Dr. W. M. Christie: "The Jewish Immigrant Population of Palestine".

ROYAL GEOGRAPHICAL SOCIETY, at 5.—J. A. Steers: "Scott Head Island".

Tuesday, March 13

INSTITUTION OF PETROLEUM TECHNOLOGISTS, at 5.30.—Annual General Meeting.

PHARMACEUTICAL SOCIETY, at 8.30.—C. E. Carfield: "The British Pharmaceutical Codex—Some Notes on its Revision".*

ROYAL SOCIETY FOR THE PROTECTION OF BIRDS, at 3—(at Church House, Westminster, S.W.1).—Annual Meeting.

Wednesday, March 14

GEOLOGICAL SOCIETY, at 5.30.—Dr. L. Hawkes: "Some Javanese Volcanoes, with notes on the Tectonics of the Island Arcs of the East Indies".

TELEVISION SOCIETY, at 7.—Sixth Annual General Meeting.

Sir Ambrose Fleming: "Invention in Relation to National Prosperity and Legislative Control" (Presidential Address).

Thursday, March 15

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—C. C. Paterson: "The Electrical Engineer and the Free Electron" (Faraday Lecture).

Friday, March 16

ASSOCIATION OF APPLIED BIOLOGISTS, at 11.45—(at the Imperial College of Science and Technology, South Kensington, S.W.7).

At 11.45, Dr. W. Maldwyn Davies: "The Sheep Blowfly Problem".

At 2.30, Dr. I. Thomas: "Some lesser-known Pests of Cereals with Observations on the Source of Infestation".

J. C. F. Fryer: "The Colorado Beetle".*

Official Publications Received

GREAT BRITAIN AND IRELAND

International Agreement, Brussels, 1924. Venereal Diseases: Centres in the Ports at Home and Abroad where Seamen can obtain Treatment. (List 7a, revised.) Pp. 23. (London: Ministry of Health.)

Liverpool Observatory and Tidal Institute. Annual Report, 1933. Pp. 16. (Liverpool: Observatory and Tidal Institute.)

The Scientific Proceedings of the Royal Dublin Society. Vol. 21 (N.S.), No. 4: A Note on the Molecular Complexity of Amylose in Potato Starch. By Dr. J. Keilly and Miss H. Murphy. Pp. 37-42. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 6s.

A List of the more Important Collections in the University Herbarium, Cambridge. By J. S. L. Gilmour and T. G. Tutin. Pp. 40. (Cambridge: Botany School.) 2s. 6d.

Navy (Health). Statistical Report of the Health of the Navy for the Year 1932. Pp. 144. (London: H.M. Stationery Office.) 2s. 6d. net.

Imperial Bureau of Plant Genetics: Herbage Plants. Bulletin No. 14: Grassland Research in Australia; Future Programme and Contributions on Pasture Technique. Pp. vi+43. (Aberystwyth: Imperial Bureau of Plant Genetics.) 3s.

The Carnegie Trust for the Universities of Scotland. Thirty-second Annual Report (for the Year 1932-33), submitted by the Executive Committee to the Trustees on 7th February, 1934. Pp. iv+202. (Edinburgh: Carnegie Trust for the Universities of Scotland.)

The National Institute of Poultry Husbandry (Harper Adams Agricultural College), Newport, Shropshire. Bulletin No. 9: A Progress Report of Instructional and Experimental Work. Pp. 64. (Newport.)

Department of Scientific and Industrial Research. The Investigation of Atmospheric Pollution: Report on Observations in the Year ended 31st March 1933. (Nineteenth Report.) Pp. vii+99. (London: H.M. Stationery Office.) 5s. net.

OTHER COUNTRIES

U.S. Department of the Interior: Office of Education. Bulletin, 1933, No. 8: A Background Study of Negro College Students. By Ambrose Caliver. Pp. vii+132. 10 cents. Bulletin, 1933, No. 13: High-School Instruction by Mail; a Potential Economy. By Walter H. Gaumnitz. Pp. v+69. 10 cents. Bulletin, 1933, No. 14: The Effects of the Economic Depression on Education in other Countries. By James F. Abel. Pp. v+37. 5 cents. Leaflet No. 44: The Deepening Crisis in Education. Pp. 16. 5 cents. (Washington, D.C.: Government Printing Office.)

U.S. Department of Agriculture. Technical Bulletin No. 373: Studies of Fluorine Compounds for Controlling the Codling Moth. By E. J. Newcomer and R. H. Carter. Pp. 24. (Washington, D.C.: Government Printing Office.) 5 cents.

U.S. Department of the Interior: Geological Survey. Bulletin 846-A: Some Mining Districts of Eastern Oregon. By James Gilluly, J. C. Reed and C. F. Park, Jr. (Contributions to Economic Geology, 1933, Part 1.) Pp. viii+140+8 plates. 25 cents. Bulletin 846-B: Geology and Ore Deposits of the Takilma-Waldo District, Oregon; including the Blue Creek District. By Phillip J. Shenon. (Contributions to Economic Geology, 1933, Part 1.) Pp. v+141-194+plates 9-22. 20 cents. Bulletin 849-B: Lode Deposits of the Fairbanks District, Alaska. By James M. Hill. (Investigations in Alaska Railroad Belt, 1931.) Pp. x+29-163+plates 3-10. 35 cents. Bulletin 849-C: The Willow Creek Gold Lode District, Alaska. By James C. Ray. (Investigations in Alaska Railroad Belt, 1931.) Pp. viii+165-229+plates 11-20. 20 cents. (Washington, D.C.: Government Printing Office.)

University Observatory, Oslo. Publication No. 9: On the Interpretation of the Umkehr-Effect in Atmospheric Ozone Measurement. By Chaim L. Pekeris. Pp. 31. Publication No. 10: On the Trajectories of Electric Particles in the Field of a Magnetic Dipole with Applications to the Theory of Cosmic Radiation, First Communication. By Carl Størmer. Pp. 19+9 plates. (Oslo: Jacob Dybwad.)

Colony and Protectorate of Nigeria. Report on the Agricultural Department for the Year 1932. Pp. ii+47. (Lagos: Government Printer.) 4s. net.

U.S. Department of Agriculture. Technical Bulletin No. 399: A Study of Claypan Soils. By Irvin C. Brown, T. D. Rice and Horace G. Byers. Pp. 43. (Washington, D.C.: Government Printing Office.) 5 cents.

Publications of the Observatory of the University of Michigan. Vol. 5, No. 10: A New Method of Driving Equatorial Telescopes. By Robert R. McMath and Walter A. Greig. Pp. 123-131+2 plates. Vol. 5, No. 11: The Elements and Ephemeris of Comet 1933f (Whipple). By Allan D. Maxwell and Helen M. Porter. Pp. 133-135. (Ann Arbor, Mich.)

Library of Congress. Report of the Librarian of Congress for the Fiscal Year ending June 30, 1933. Pp. vi+264+20 plates. (Washington, D.C.: Government Printing Office.) 75 cents.

U.S. Department of Agriculture. Circular No. 295: The Obscure Scale on the Pecan and its Control. By Howard Baker. Pp. 20. 5 cents. Miscellaneous Publication No. 174: The Serpoid and Chalchidoid Parasites of the Hessian Fly. By A. B. Gahan. Pp. 148. 10 cents. (Washington, D.C.: Government Printing Office.)

South Australia. Annual Report of the Director of Mines and Government Geologist for 1932. Pp. 8. (Adelaide: Government Printer.)

Natal's Nature Sanctuaries in Zululand. By E. K. du Plessis. Pp. ii+23. (Pietermaritzburg: The Natal Witness, Ltd.)

CATALOGUES

Catalogue de livres anciens et modernes rares ou curieux relatifs à l'Orient. (No. 26.) Pp. 307-402. Catalogue des publications suivies d'une liste de grammaires et dictionnaires les plus usités. Pp. 16. (Paris: Librairie Adrien-Maisonneuve.)

B.D.H. Injections for Parenteral Medication. Pp. 54. (London: The British Drug Houses, Ltd.)