

velocity of the wind theoretically calculated and based on good observations in the mountains corresponds better with the true wind velocity. G. GUTZET and R. MONNIER: The utilisation of some azo derivatives of oxyquinoline as reagents in qualitative analysis. In a preliminary study, the authors describe the spot colour reactions of the cations of the heavy metals with several azo derivatives of oxyquinoline. The presence of a sulpho group in the substituted molecule makes the colour reactions more clear. H. LAGOTALA: The stratigraphical study of the Mindouli-Mines region. The author makes clear the stratigraphical complexity of this part of the French Congo, due to numerous faults leading to repetition of facies. J. WEIGLE: Dispersion in the Hertzian domain. Experiments show indubitably that polarised molecules dissolved in a viscous medium associate in part to form large groups in the solvent. Certain X-ray measurements had suggested this arrangement, but the full proof had been lacking up to the present.

Forthcoming Events

Monday, Jan. 30

ROYAL GEOGRAPHICAL SOCIETY, at 5.30.—(Geographical Film).—Lieut.-Commander J. L. F. Hunt: "The Sahara and the Ivory Coast".

Wednesday, Feb. 1

UNIVERSITY COLLEGE, LONDON, at 5.30.—K. Ryde: "The Reference Library of a Modern Town and What it Can do for You".

Thursday, Feb. 2

UNIVERSITY COLLEGE, LONDON, at 5.30.—(Newmarch Lectures in Statistics).—Dr. L. J. Comrie: "Modern Methods of Calculation" (succeeding lectures on Feb. 9, 16, 23, March 2 and 9).

Official Publications Received

GREAT BRITAIN AND IRELAND

The Quarterly Journal of the Geological Society of London. Vol. 88, Part 4 (second half), No. 352 (second half), December 29th. Pp. 711-916+plates 47-82. (London: Longmans, Green and Co., Ltd.) 7s. 6d.

Quarterly Journal of the Royal Meteorological Society. Vol. 59, No. 248, January. Pp. 94. (London: Edward Stanford, Ltd.) 7s. 6d.

The Slaughter-House Problem: being the eleventh Benjamin Ward Richardson Memorial Lecture delivered before the Modern Abattoir Society at the Royal Sanitary Institute on November 30th, 1932. By T. Topping. Pp. 16. (London: Model Abattoir Society.)

Biological Reviews and Biological Proceedings of the Cambridge Philosophical Society. Edited by H. Munro Fox. Vol. 8, No. 1, January. Pp. 105. (London: Cambridge University Press.) 12s. 6d. net.

The Proceedings of the Physical Society. Vol. 45, Part 1, No. 246, January 1. Pp. iv+133. (London: Physical Society.) 7s. net.

Medical Research Council. Special Report Series, No. 176: Third Report of the Miners' Nystagmus Committee. Pp. 36. (London: H.M. Stationery Office.) 9d. net.

Transactions of the Royal Society of Edinburgh. Vol. 57, Part 2, No. 14: Submarine Faulting in Kimmeridgian Times—East Sutherland. By Prof. E. B. Bailey and Dr. J. Weir. Pp. 429-407+3 plates. 6s. Vol. 57, Part 2, No. 15: Development and Probable Evolution of the Suctorial Disc in the Tadpoles of *Rana afghana* Gunther. By Dr. Sunder Lal Hora. Pp. 469-472+1 plate. 1s. Vol. 57, Part 2, No. 16: The Innervation of the Uterus. By Dr. Amy M. Fleming. Pp. 473-490+4 plates. 4s. Vol. 57, Part 2, No. 17: Contributions to the Study of the Old Red Sandstone Flora of Scotland. 8: On Arthrostroma, Psilophyton, and some associated Plant-Remains from the Strathmore Beds of the Caledonian Lower Old Red Sandstone. By Dr. W. H. Lang. Pp. 491-521+4 plates. 5s. 6d. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.)

Amgueddfa Genedlaethol Cymru: National Museum of Wales. Twenty-fifth Annual Report, 1931-32, presented by the Council to the Court of Governors on the 25th October, 1932. Pp. 44+5 plates. (Cardiff.)

The Journal of the Institution of Electrical Engineers. Edited by P. F. Rowell. Vol. 72, No. 433, January. Pp. 92+xxii. (London: E. and F. N. Spou, Ltd.) 10s. 6d.

OTHER COUNTRIES

Indian Lac Research Institute. Annual Report for the Year 1st April, 1931, to 31st March, 1932. Pp. 44. Bulletin No. 10: The Influence of Orpiment in Shellac on the Protective Properties of the Varnish. By M. Rangaswami. Pp. 8. 8 annas. (Nankum, Ranchi.) Publications of the Dominion Observatory, Ottawa. Vol. 10: Bibliography of Seismology. No. 15: July, August, September, 1932. By Ernest A. Hodgson. Pp. 247-261. (Ottawa: F. A. Acland.) 25 cents.

Indian Forest Records. Vol. 15, Part 5: Provisional Volume Tables and Diameter Growth Curve for Semal (Bombax malabaricum DC.) in the Central Provinces. By Ishwar Das Mahendru. Pp. ii+6. 2 annas; 3d. Vol. 15, Part 6: Branch Smallwood Tables for Shorea robusta, Tectona grandis, Cedrus deodara, Pinus excelsa and P. longifolia. Pp. iii+7. 3 annas; 4d. (Calcutta: Government of India Central Publication Branch.)

Journal of the Faculty of Science, Hokkaido Imperial University. Series 4: Geology and Mineralogy. Vol. 1, Nos. 3-4, November. Pp. 257-390+plates 19-52. (Sapporo.)

Report of the Secretary of the Smithsonian Institution for the Year ending June 30, 1932. (Publication 3183.) Pp. vii+89. (Washington, D.C.: Government Printing Office.)

Proceedings of the United States National Museum. Vol. 81, Art. 18: On a Newly Mounted Skeleton of Diplodocus in the United States National Museum. By Charles W. Gilmore. (No. 2941.) Pp. 21+6 plates. (Washington, D.C.: Government Printing Office.)

U.S. Department of the Interior: Geological Survey. Fifty-third Annual Report of the Director of the Geological Survey to the Secretary of the Interior for the Fiscal Year ended June 30, 1932. Pp. ii+94. 10 cents. Bulletin 837: Tertiary and Quaternary Geology of the Lower Rio Grande Region, Texas. By A. C. Trowbridge. Pp. viii+260+45 plates. 75 cents. Professional Paper 174: Physiography and Glacial Geology of Eastern Montana and adjacent Areas. By William C. Alden. Pp. viii+133+51 plates. 1 dollar. (Washington, D.C.: Government Printing Office.)

Ceylon Journal of Science. Section B: Zoology and Geology. Spolia Zeylanica. Edited by Dr. Joseph Pearson. Vol. 17, Part 1, October 11th. Pp. 71+11 plates. 3 rupees. Vol. 17, Part 2, November 3rd. Pp. 73-148+plates 12-27. 3 rupees. (Colombo: Colombo Museum; London: Dulau and Co., Ltd.)

The University of Colorado Studies. Vol. 20, No. 1: Abstracts of Theses for Higher Degrees, 1932. Pp. 113. (Boulder, Colo.) 1 dollar.

India: Meteorological Department: Scientific Notes. Vol. 4, No. 45: The Method of Coincidences, or a Quick Method of Determining the Approximate Value of a Simple Correlation Co-efficient. By Dr. S. R. Savur. Pp. 152-156. 3 annas; 4d. Vol. 5, No. 47: Horizontal Atmospheric Visibility at Quetta. By A. K. Roy. Pp. 17+3 plates. 8 annas; 10d. (Calcutta: Government of India Central Publication Branch.)

Instituts scientifiques de Buitenzorg: "s Lands Plantentuin". Treubia: recueil de travaux zoologiques, hydrobiologiques et océanographiques. Rédigé par Dr. K. W. Dammerman and Prof. Dr. H. C. Delsman. Vol. 7, Suppl. Livraison 7, Novembre. Pp. 349-387. (Buitenzorg: Archipel Drukkerij.)

Field Museum of Natural History. Botanical Series, Vol. 11, No. 4: New Plants from British Honduras. By Paul C. Standley. (Publication 316.) Pp. 129-142. (Chicago.) 25 cents.

State of California: Department of Agriculture, Sacramento. Special Publication No. 109: The California Ground Squirrel Control Program. By Eugene S. Kellogg. Pp. 21. (Sacramento, Calif.: California State Printing Office.)

U.S. Department of Agriculture: Biological Survey. Report of the Chief of the Bureau of Biological Survey. Pp. 30. (Washington, D.C.: Government Printing Office.)

Proceedings of the United States National Museum. Vol. 81, Art. 4: The Marine and Fresh-Water Sponges of California. By M. W. de Laubenfels. (No. 2927.) Pp. 140. (Washington, D.C.: Government Printing Office.)

The Imperial Council of Agricultural Research. Scientific Monograph No. 2: Life-Histories of Indian Microlepidoptera (Second Series): Alucitidae (Pterophoridae), Tortricina and Gelechiidae. By T. Bainbridge Fletcher. Pp. ii+58+35 plates. (Calcutta: Government Printing Office.) 3.4 rupees; 5s. 6d.

Mysore Geological Department. Records, Vol. 30, 1931. Pp. iv+30. (Bangalore: Government Press.) 2 rupees.

Malta. Annual Report on the Working of the Museum Department during 1931-32. Pp. xiv. (Malta: Government Printing Office.)

Stanford University Publications: University Series. Engineering, Vol. 1, No. 1: Some Experiments on Oil Films in Complete Cylindrical Bearings. By Prof. Guido H. Marx; in collaboration with Jean B. Balcomb, Edwin O. Bennett, Jean Dentraygues, Walter K. Franklin, Boynton M. Green, Richard H. Hartman, Rhodus MacKamey, William L. Rifenberick. Pp. 110. (Stanford University, Calif.: Stanford University Press; London: Oxford University Press.) 1 dollar.

Contributions from the Department of Geology of Stanford University. Vol. 1, No. 3: Recent Littoral Foraminifera from Texas and Louisiana. By M. M. Kornfeld. Pp. 75-102+plates 13-16. (Stanford University, Calif.: Stanford University Press; London: Oxford University Press.) 75 cents.

Proceedings of the Nineteenth Indian Science Congress, Bangalore, 1932 (Third Circuit). Pp. xxxvii+540. (Calcutta: Asiatic Society of Bengal.) 18.12 rupees.

National Research Council. Organisation and Members, 1932-1933. Pp. ii+68. (Washington, D.C.)

The Science Reports of the Tôhoku Imperial University, Sendai, Japan. Fourth Series (Biology), Vol. 7, No. 4. Pp. 457-573+plates 13-17. (Tokyo and Sendai: Maruzen Co., Ltd.)

Institute for Science of Labour. Annual Report of the Director of the Institute for Science of Labour for 1930-1931. Pp. ii+25. (Kurasiki.) 60 sen.

CATALOGUES

Acridlavine 'B.D.' in General Practice. Pp. 12. (London: The British Drug Houses, Ltd.)

Zeiss Nachrichten. Heft 2, Dezember. Pp. 32. (Jena: Carl Zeiss.)