

POLACK: Colour vision and its anomalies. The author concludes that the Young-Helmholtz trichromatic theory does not accord with the facts. Normal colour vision cannot be reduced to three fundamental colours. Colour vision is characterised by two physiological factors, the position of the luminous maximum in the spectrum and the extent of the untonal regions. R. GRAIN: The electrical treatment of chronic catarrhal laryngitis. Details of a method of fixing iodine ions on the tissues by faradisation.

CRACOW

Academy of Sciences and Letters, October 2. R. MALACHOWSKI and T. WANCZURA: The catalytic hydrogenation of dehydracetic acid. By the action of hydrogen upon dehydracetic acid in the presence of platinum oxide, the principal product was 6-methyl-3-ethylpyronone. MLE. T. GRADOWSKA, A. KRYNICKI and R. MALACHOWSKI: The unsaturated polybasic acids. Derivatives of ethylene-tricarboxylic acid. The methyl and ethyl esters of this acid were prepared, but, owing to reactions occurring on saponification, the free acid could not be obtained. K. DZIEWONSKI, ST. PIZON and MLE. M. MAZURKIEWICZOWNA: Symmetrical $\alpha\beta$ -dinaphthopyrone. K. DZIEWONSKI and ST. PIZON: Two isomers, compounds of the type of symmetrical $\alpha\beta$ -dinaphthopyrane. W. SZYMANOWSKI: The lethal time for animals submitted to the action of short electric waves of different wave-lengths. Contrary to the results obtained by other workers on the same subject, the author finds no maximum lethal effect for a given frequency. The lethal time follows fairly closely the laws of heating of electrolytes produced by the action of high-frequency electric fields. The conclusion is drawn that the death of the animals is due to the heat effects produced. B. PAWLOWSKI: Studies on the delphiniums of Central Europe belonging to the *Elatopsis* section. J. WISZNEWSKI: The males of the psammic rotifers. MLE. I. TUROWSKA: Studies on the sulphur bacteria (2). The Cyanophyceae accompanying the sulphur bacteria (3). The intimate structure of the cell of the sulphur bacteria. Attempt at the establishment of their phylogenesis. Discussion of the relations between the white sulphur bacteria and the Cyanophyceae. J. JAROCKI: Two new ciliates of the family Hypocomidæ. *Heterocinetia janickii* and *H. lwoffi*, ctoparasites of *Physa fontinalis* and of *Viviparus fasciatus*. MLE. M. WIERZBICKA: The results of crossing certain forms of *Cyclops strenuus*. Z. GRODZINSKI: The development and the comparative anatomy of the axial vessels of the anterior extremities of the vertebrates. J. STACH: Two new species of the genus *Onychiurus* in Poland.

Forthcoming Events

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

Monday, December 18

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—J. R. Rymill: "The Tugtilit (Lake Fjord) Country, East Greenland".

Tuesday, December 19

EUGENICS SOCIETY, at 5.30—(in the rooms of the Linnean Society, Burlington House, London, W.1).—Discussion on "Family Allowances".*

Wednesday, December 20

ROYAL METEOROLOGICAL SOCIETY, at 5.—Dr. J. Glasspool and W. L. Andrew: "The Exceptional Summer of 1933".

Official Publications Received

GREAT BRITAIN AND IRELAND

Proceedings of the Royal Irish Academy. Vol. 41, Section B, No. 15: Contributions to the Life-History of *Fitzroya*. By J. Doyle and W. T. Saxton. Pp. 191-217+plates 11-12. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s.

Imperial Bureaux of Plant Genetics: Herbage Plants. Bulletin No. 12: Lucerne, its Ecological Position and Distribution in the World. By Dr. M. Klinkowski. Translated by G. M. Roseveare. Pp. 62. 3s. 6d. Bulletin No. 13: Plant Breeding in the Soviet Union: Achievements, Organization and Future Programme of the Institute of Plant Industry. Pp. 58. 3s. 6d. (Aberystwyth: Agricultural Buildings.)

Report of the Departmental Committee on Thames Flood Prevention. (Cmd. 4452.) Pp. 24. (London: H.M. Stationery Office.) 6d. net.

Transactions and Proceedings of the Botanical Society of Edinburgh. Vol. 31, Part 2, Session 1932-33. Pp. ix-xv+245-322+plates 3-8. (Edinburgh.)

Proceedings of the Linnean Society of London, Session 1932-33. Part 4: Hooker Lecture—Some Aspects of the Bearing of Cytology on Taxonomy. By Sir William Wright Smith. Pp. 151-182. (London: Linnean Society.) 1s.

Department of Scientific and Industrial Research. Building Science Abstracts. Vol. 6 (New Series), No. 10, October. Abstracts Nos. 1654-1844. Pp. 325-360. (London: H.M. Stationery Office.) 1s. 6d. net.

Agreements concluded at the International Conference for the Protection of the Fauna and Flora of Africa, London, November 8, 1933. (Cmd. 4453.) Pp. 61. (London: H.M. Stationery Office.) 1s. net.

Proceedings of the Royal Irish Academy. Vol. 41, Section A, Nos. 13, 14: The Resolving Power with a Microphotometer, by R. W. Ditchburn and E. J. Power-Steele; The Method of Focal Isolation, by R. W. Ditchburn. Pp. 137-155. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s.

The Scottish Forestry Journal: being the Transactions of the Royal Scottish Forestry Society. Vol. 47, Part 2, October. Pp. xviii+93-214+23-30. (Edinburgh: Douglas and Foulis.) 7s. 6d.

Board of Education. Report of the Consultative Committee on Infant and Nursery Schools. Pp. xxvi+282+6 plates. (London: H.M. Stationery Office.) 2s. 6d. net.

OTHER COUNTRIES

Commonwealth of Australia: Council for Scientific and Industrial Research. Pamphlet No. 44: The Chemistry of Australian Timbers. Part 3: The Chemical Composition of Four Pale-Coloured Woods of the Genus *Eucalyptus*:—*E. rigida*, *E. obliqua*, *E. remana*, *E. sieberiana*. By W. E. Cohen, A. G. Charles and A. B. Jamieson. (Division of Forest Products, Technical Paper No. 9.) Pp. 22. Bulletin No. 76: A Soil Survey of the Hundreds of Laffer and Willalokka, South Australia. Edited by J. K. Taylor. (Report of the Division of Soils.) Pp. 41. (Melbourne: Government Printer.)

The Indian Forest Records. Vol. 19, Part 1: New Thysanoptera from India. By Dudley Moulton. Pp. iii+6. 6 annas; 8s. Vol. 18, Part 12: A Stand Table for *Sal* (*Shorea robusta*), Evenaged High Forest. By I. D. Mahendru. Pp. iii+9. 5 annas; 6d. (Delhi: Manager of Publications.)

Journal of the Indian Institute of Science. Vol. 16A, Part 9: Physiological Products of the Lac Insect. Part 2: Investigation of the Water Soluble Nitrogenous Constituents. By N. K. Ranga Rao. Pp. 97-102. (Bangalore.) 8 annas.

Ministry of Public Works, Egypt: Physical Department. Meteorological Report for the Years 1927-1930. Pp. iv+285. (Cairo: Government Press.) 65 P.T.

Studies in West Indian Soils. 7: The Cacao Soils of Trinidad. (A) Montserrat District. By J. A. McDonald, F. Hardy and G. Rodriguez. Pp. 50. (Trinidad: Government Printing Office.) 2s.

Tide Tables for the Atlantic Coast of Canada for the Year 1934: including the River and Gulf of St. Lawrence, the Bay of Fundy, Northumberland and Cabot Straits, Hudson Bay, and Information on Currents; in addition Tide Tables for New York and Boston, U.S.A. (Thirty-eighth Year of Issue.) Pp. 95. (Ottawa: King's Printer.)

Tide Tables for the Pacific Coast of Canada for the Year 1934: including Juan de Fuca Strait, the Strait of Georgia, and the Northern Coast, with Data for Slack Water in the Navigable Passes and Narrows, and Information on Currents; also Tide Tables for the U.S. Ports of Seattle and Port Townsend. (Thirty-fourth Year of Issue.) Pp. 80. (Ottawa: King's Printer.)

Proceedings of the American Philosophical Society. Vol. 73, No. 1: The Rates of Growth, Larval Development and Seasonal Distribution of Dragonflies of the Genus *Anax* (Odonata: Aeshnidae). By Philip P. Calvert. Pp. 70+4 plates. (Philadelphia.)

U.S. Department of the Interior: Geological Survey. Circular 3: The Bleaching Clays. By P. G. Nutting. Pp. 51. Circular 4: Some Deposits of Ornamental Stone in Montana. By G. R. Mansfield. Pp. iii+22. (Washington, D.C.: Government Printing Office.)

Transactions of the Academy of Science of St. Louis. Vol. 28, Nos. 1 and 2: A Preliminary Check List of the Lizards of South America, by Charles E. Burt and May Danheim Burt; An Aurora observed in Missouri and its Connection with Solar Activity, by Stuart L. O'Byrne. Pp. v+117. (St. Louis, Mo.)

Public Library, Museum and Art Gallery of South Australia. Records of the South Australian Museum. Vol. 5, No. 1. Pp. 116. (Adelaide.) 10s. 6d.

Carnegie Institution of Washington. Publication No. 438: The Book of Chilam Balam of Chumayel. By Ralph L. Roys. Pp. viii+229+2 plates. (Washington, D.C.: Carnegie Institution.)

Proceedings of the United States National Museum. Vol. 82, Art. 26: Review of the Wasps of the Subfamily Pseninae of North America (Hymenoptera: Aculeata.) By J. R. Malloch. (No. 2967.) Pp. 60+2 plates. (Washington, D.C.: Government Printing Office.)