

on the Atlantic and Indian Oceans.—E. Chauvenet and J. Dawidowicz: Zirconyl oxyiodides.—K. Dziewoński, Cz. Baraniecki, and L. Sternbach: A new method of synthesis of colouring matters of the thio-indigo type. Syntheses in the naphthalene group.—J. Kuhl: Contribution to the knowledge of the Trembowla grits in the neighbourhood of Mogielnica (Eastern Little Poland).—Mlle. C. de Kleist: Phytosociological researches on the peat bogs of the region of the dunes of the right bank of the Vistula in the neighbourhood of Warsaw.—Z. Grodiński: The development of the blood vessels in the anterior extremities of *Amblystoma mexicanum*.—J. Zacwili-chowski: Researches on the innervation of the wings of insects.—L. Hirszfeld and Mlle. W. Halber: Deviation of the complement by the serum of cancer patients and of pregnant women with alcoholic extract of cancers.—Z. Zakrzewski: Researches on the production of the principles stimulating the growth of normal tissues by sarcomatous cells in culture *in vitro*.

## MELBOURNE.

Royal Society of Victoria, June 12.—John Clark: New Formicidæ; with notes on some little-known species. Fourteen species and one genus are described as new. The ants described by Kirby in 1896, collected by the member of the Horn Expedition to Central Australia, have been revised. Of the twelve species mentioned by Kirby, five now stand as apparently valid species.—Alan P. Dodd: New Hymenoptera Proctotrypoidea from Victoria. Six new species are described, belonging to the families (1) Scelionidæ and (2) Belytidæ. The genus *Xenotoma* is here recorded for the first time from Australia.—Alan Coulson: Notes on the Jurassic Rocks of the Barrabool Hills, near Geelong, Victoria. Fossil plants, of which a list is given, were discovered in a mudstone band intercalated with basal boulder beds. The flora indicates a Lower Jurassic age. The pebbles of the boulder beds are Ordovician spotted slate, quartzite, quartz and mica schist, Heathcotian (Up. Cambrian) epidiorite, and Lower Palæozoic granite. Two faults have affected the Jurassic beds.

## SYDNEY.

Linnean Society of New South Wales, May 21.—C. P. Alexander: Observations on the Dipterous family Tanyderidae. A preliminary description of the immature stages of the family Tanyderidae. The material consists of larvæ and pupæ of a North American species, *Protoplasa fitchii*, from the Gaspé Peninsula of eastern Quebec, Canada. More than half the known species of the family are from Australasia, which is the great centre of distribution of the family.—H. L. Jensen: The genus *Micromonospora* Orskov, a little-known group of soil micro-organisms. Morphological and biological description of nine strains of the practically unknown genus *Micromonospora*, which appears to be of common occurrence in Australian soils.—A. Jefferis Turner: Revision of Australian Oenochromidæ (Lepidoptera). Part 3. This completes the revision of the family. In this part twenty genera and forty-seven species are dealt with, one genus and six species being described as new. Keys are given for the determination of the species of *Oenochroma* and *Derambila*.

## VIENNA.

Academy of Sciences, May 22.—G. Machek: The linear pentacene series (19). The constitution of the bi-derivatives of pentacene-diquinone.—M. Kohn and E. Gurewitsch: The 2, 5-dichlor-hydro-quinone-dimethyl-ether.—M. Kohn and S. Fink: Chlorination

of *p*-amido-phenol. 35th. Communication on bromo-phenols.—K. Prziбрам: Recrystallisation and coloration of rock-salt.—G. Ortner: Recrystallisation of compressed rock-salt. M. Blau and E. Rona: Application of Chamie's photographic method to reactions and electrolysis of polonium.

## Official Publications Received.

## BRITISH.

- Indian Central Cotton Committee: Technological Laboratory. Technical Bulletin, Series A, No. 15: Preliminary Spinning Tests on Mixings of Indian and American Cottons using Ordinary and High Drafts. By R. P. Richardson and Dr. A. James Turner. Pp. 21. (Bombay.) 1 rupee.
- Publications of the Dominion Observatory, Ottawa. Vol. 10: Bibliography of Seismology. No. 4: October, November, December, 1929. By Ernest A. Hodgson. Pp. 51-65. (Ottawa: F. A. Acland.) 25 cents.
- A Summary of Data relating to Economic Entomology in the British Empire. Prepared for the Third Imperial Entomological Conference by Dr. S. A. Neave. Pp. 23. (London: Imperial Institute of Entomology.) 2s. 6d. net.
- The Scientific Proceedings of the Royal Dublin Society. Vol. 19 (N.S.). No. 41: Study of the Polysaccharides. Part 3: Acetamide as a Polysaccharide Solvent. By Dr. J. Reilly, Dr. Reinhold Wolter and P. F. Donovan. Pp. 467-478. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 6d.
- Memoirs of the Asiatic Society of Bengal. Vol. 11, No. 3: The Palæogeography of the Hathigumpha and the Nanaghat Inscriptions. By R. D. Banerji. Pp. 131-146 + plates 17-23. (Calcutta.) 4.8 rupees.
- The Half-Yearly Journal of the Mysore University. Vol. 4, No. 1, January. Pp. 144. (Bangalore.) 2 rupees.
- Education, India. Pamphlet No. 26: Note on Education at Jamshedpur in Bihar and Orissa. By G. E. Fawcus. Pp. iii+8+2 plates. (Calcutta: Government of India Central Publication Branch.) 8 annas; 10d.
- Journal of the Indian Institute of Science. Vol. 13A, Part 10: Contributions to the Study of Spike-Disease of Sandal (*Santalum album*, Linn.) Part xi: New Methods of Disease Transmission and their Significance. By M. Sreenivasaya. Pp. 113-117. (Bangalore.) 12 annas.
- University of Bristol. The Annual Report of the Agricultural and Horticultural Research Station (The National Fruit and Cider Institute), Long Ashton, Bristol, 1929. Pp. 227+18 plates. (Bristol.)
- Queensland. Department of Mines: Queensland Geological Survey. Publication No. 278: The Queensland Upper Palæozoic Succession. By J. H. Reid. Pp. 96. (Brisbane: Anthony James Cumming.)
- Report of the Progress of the Ordnance Survey for the Financial Year 1st April 1929 to 31st March 1930. Pp. 22+6 plates. (London: H.M. Stationery Office.) 4s. 6d. net.
- Transactions of the Institute of Marine Engineers, Incorporated. Session 1930, Vol. 42, July. Pp. 391-473+xliv. (London.)
- Harper Adams Agricultural College, Newport, Shropshire. Advisory Report No. 5: Report of the Advisory Department, 1929-1930. Pp. 32. (Newport.)
- Ministry of Agriculture and Fisheries. The National Mark. Second edition. Pp. 11. (London: Ministry of Agriculture and Fisheries.) Free.

## FOREIGN.

- Annales de l'Institut Henri Poincaré: recueil de Conférences et mémoires de calcul des probabilités et physique théorique. Vol. 1, Fasc. 1. Pp. 74. (Paris: Les Presses universitaires de France.) 35 francs.
- Transactions of the San Diego Society of Natural History. Vol. 6, No. 4: Upper Eocene Orbitoid Foraminifera from the Western Santa Ynez Range, California, and their Stratigraphic Significance. By W. P. Woodring. Pp. 145-170+plates 13-17. 50 cents. Vol. 6, No. 5: A new Race of Gilded Flicker from Sonora. By A. J. van Rossem. Pp. 171-172. 10 cents. Vol. 6, No. 6: New Species of Mollusks. By Fred Baker and V. D. P. Spicer. Pp. 173-182+plates 18-19. 25 cents. (San Diego.)
- Publikationer og mindre Meddelelser fra Københavns Observatorium. Nr. 69: Die retrograden periodischen Bahnen um die beiden endlichen Massen im Probleme Restreint, mit direkter absoluter Bewegung (Klasse  $\bar{0}$ ). Von Elis Strömgren. Pp. 31. (København: Bianco Lunos Bogtrykkeri A.-S.)
- Federated Malay States. Annual Report on the Department of Agriculture, S.S. and F.M.S., for the Year 1929. By Dr. H. A. Tempny. Pp. ii+19. (Kuala Lumpur.)
- Ministry of Agriculture, Egypt: Technical and Scientific Service. Bulletin No. 93: Some Supplementary Records to Muschler's Manual Flora of Egypt; including many Species collected by Mr. G. W. Murray. By N. Douglas Simpson. Pp. iv+59. 6 P.T. Bulletin No. 94: The Angular Leaf Spot of Cotton in Egypt. By Dr. Tewfik Fahmy. Pp. 5+7 plates. 5 P.T. (Cairo: Government Publications Office.)
- Collection des travaux chimiques de Tchecoslovaquie. Rédigée et publiée par E. Votoček et J. Heyrovský. Année 2, No. 7, Juillet. Pp. 441-488. (Prague: Regia Societas Scientiarum Bohemica.)
- Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 82. The North American Retinellæ. By H. Burrington Baker. Pp. 193-219+plates 9-14. Results of the Pinchot South Sea Expedition. 1: Land Mollusks of the Caribbean Islands, Grand Cayman, Swan, Old Providence and St. Andrew. By Henry A. Pilsbry. Pp. 221-261+plates 15-19. (Philadelphia, Pa.)
- Bulletin of the Bingham Oceanographic Collection. Vol. 3, Art. 4: Scientific Results of the Third Oceanographic Expedition of the *Pawnee*, 1927. Teleostean Shore and Shallow-water Fishes from the Bahamas and Turks Islands. By Albert Eide Parr. Pp. 148. (New Haven, Conn.: Peabody Museum of Natural History, Yale University.)