

SYDNEY.

Linnean Society of New South Wales, June 27.—**A. B. Walkom**: Fossil plants from the Upper Palaeozoic rocks of New South Wales. Four species of fossil plants are described from the Kuttung Series, namely, *Ulodendron minus*, *Stigmaria ficoides*, a new species of *Pityis* (?), and a new species of *Lepidodendron* similar to *L. spitsbergense*. These plants indicate that the flora of the Kuttung Series is related to floras of Lower Carboniferous age in the northern hemisphere. A new species of *Dadoxylon* is described from the Ravensfield sandstone, in the Lower Marine Series.—**T. L. Bancroft**: On the life-history of *Ceratodus* (*Epiceratodus forsteri*). During a period of seventeen years many thousands of *Ceratodus* have been hatched, but the author only succeeded in rearing two past the critical three months' stage. The secret of successfully negotiating this stage has now been discovered, and a description of the technique is given. The great importance of this lies in the fact that conditions for favourable propagation of *Ceratodus* no longer exist in the Burnett River, and the fish must be gradually nearing extinction in that river.—**J. R. Malloch**: Notes on Australian Diptera. No. 14. This part deals with Asilidæ (subfamilies Laphrinæ and Dasypogoninæ), Chloropidæ (one subgenus and three species of *Parahippelates* are described as new, and a key is given to the species of that genus), Lonchæidæ (a key is given to the species of *Lonchæa*, one species is described as new, and notes are given on other species), Sepsidæ (one genus and one species are described as new) and Piophilidæ (one genus and one species are described as new).—**A. B. Walkom**: Lepidodendroid remains from Yalwal, N.S.W. Lepidodendroid stems from Yalwal are referred to two species (described as new) of *Protolpidodendron* and one species of (?) *Lepidodendron*. The former show resemblances to *P. primævum* from the Upper Devonian of New York, and support the reference of the Yalwal rocks to the Devonian.—**C. P. Alexander**: The Australasian species of the genus *Nemopalpus* Macquart (Diptera, Psychodidæ). A second species of the genus is described from the Dorrigo Plateau in New South Wales. Keys are given for the recognition of the subfamilies of Psychodidæ, the genera of Bruchomyinæ and the species of *Nemopalpus*.—**H. J. Carter**: Revision of the Australian species of the genera *Curis*, *Neocuris*, and *Trachys*, together with notes and descriptions of new species of other Coleoptera. Amongst the Buprestidæ four species are described as new, many notes on synonymy are given, and the results of critical examination of recent work by Dr. Obenberger are recorded. One genus and six species of *Tenebrionidæ*, five species of *Cistelidæ* and one species of *Cerambycidæ* are also described as new.

VIENNA.

Academy of Sciences, June 21.—**P. Gross** and **K. Schwarz**: The separating action of salts. An inquiry into the distribution of acetone and of hydrocyanic acid between benzol and aqueous solutions of electrolytes and some non-electrolytes.—**P. Gross**: The action of neutral salts.—**A. Müller** and **E. Rölz**: A new preparation of 1, 5-dioxy-*n*-pentane (pentamethyleneglycol) and 1, 5-diod-*n*-pentane.—**R. Weiss**: Researches on the preparation of acridone derivatives.—**R. Weiss** and **E. Merksammer**: A new synthesis of cumarin derivatives.—**E. Blumenstock-Halward** and **E. Jusa**: The colour deepening action of the methyl-mercapto group in azo dyes (1).—**E. Blumenstock-Halward** and **E. Riess**: The colour deepening action of the methyl-mercapto group in azo dyes (2).—**G. Koller** and **E. Strang**: A

synthesis of 2,4-dioxy-6,7-benzo-1,8-naphthydrin-3-carbonic acid-methylester.—**A. Tornquist**: The system of lead-zinc-pyrites mineralisation in the hills of Graz.—**A. Kieslinger**: Geology and petrography of the Kor Alps. (7) Eclogite and amphibolite. (8) Pararocks.—**A. Musger**: Etiology of Nicholas-Durand-Favre's disease. Apparently it is due to corynebacteria.—**E. Haschek**: A contribution to the Young-Helmholtz theory. The hypothesis of three visual substances in the retina with separate photochemical sensitivities and regeneration constants.—**L. Holzer**: The determination of Lebesgue's measure of linear point manifolds the elements of which are given by systematic development.—**L. Hajek**: New recording apparatus of the Vienna phonogram archives.—**Z. Dische**: The nature of the albumen-fixed plasma sugar. The sugar was from horse blood and includes a non-dialysable blood-sugar partly an easily fermentable *d*-mannose and partly a non-fermentable sugar.—**A. Zinke**, **A. Dadieu**, **K. Funke**, and **A. Pongratz**: Researches on perylene and its derivatives (17).—**A. Pongratz**: Researches on perylene and its derivatives (18).—**O. Dischendorfer**: A disintegration acid of α -naphthol.—**K. Przibrám**: Contributions to the coloration of salts. Crystals from molten rocksalt show blue coloration under sufficient pressure.—**C. Doelter** and **H. Hueber**: The colouring substance in blue rock-salt. Chemical inquiries as to alkalinity with phenolphthalein.—**O. Grube**: On numbers prime to each other and the sums of their powers.

Official Publications Received.

BRITISH.

The Tea Research Institute of Ceylon. Bulletin No. 2: Annual Report for the Year 1927. Pp. 43. (Kandy, Ceylon.)
The Quarterly Journal of the Geological Society. Vol. 84, Part 2, No. 334. Pp. xix-cv+179-381+13 plates. (London: Longmans, Green and Co., Ltd.) 7s. 6d.
Apia Observatory, Samoa. Report for 1924. Pp. 84. (Wellington, N.Z.: W. A. G. Skeinmer.)
British Association for the Advancement of Science, Glasgow Meeting, 1928. Daily Time-Table: Preliminary Issue. Pp. 23+ix. Excursion Arrangements: List of Excursion Fares and Trains available during the Period from 6th to 12th September 1928. Pp. 35. Visits to Works. Pp. 20. (London.)

FOREIGN.

Journal of the College of Agriculture, Hokkaido Imperial University, Sapporo, Japan. Vol. 20, Part 5: Chemical Studies on the Ripening of Rice-seed and Chemical Properties of Rice of the Early Ripening Sub-varieties, by Tetsutaro Tadokoro; On the Differences in Physico-Chemical Properties of various Proteins in Plant Seeds. Third Report: On the Differences in the Physico-Chemical Properties of the different Kinds of Soy-bean Proteins. By Tetsutaro Tadokoro and Katsuji Yoshimura. Pp. 333-362. (Tokyo: Maruzen Co. Ltd.)
Proceedings of the Imperial Academy. Vol. 4, No. 6, June. Pp. xxi-xxiv+255-318. (Tokyo.)
U.S. Department of Agriculture: Bureau of Biological Survey. North American Fauna. No. 51: A Taxonomic Review of the American Long-tailed Shrews (Genera *Sorex* and *Microsorex*). By Hartley H. T. Jackson. Pp. vi+238+13 plates. (Washington, D.C.: Government Printing Office.) 50 cents.

Diary of Societies.

FRIDAY, SEPTEMBER 7.

PHILOLOGICAL SOCIETY (at University College), at 5.30.—Sir W. A. Craigie: Lexicography.

SATURDAY, SEPTEMBER 8.

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS (Eastern District Meeting) (at Town Hall, Great Yarmouth), at 11.
INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS (North-Eastern District Meeting) (at Town Hall, Morpeth), at 2.

THURSDAY, SEPTEMBER 13.

CERAMIC SOCIETY (Refractory Materials Section) (at Royal Technical College, Glasgow), at 10.30 A.M.—P. Cooper: Refractory Formers for Electric Heating Elements: some Problems in the Manufacture and Use.—W. Emery: Notes on Refractories for Salt Glaz Kilns.—A. T. Green: The Functions of Regenerators in Relation to the Properties of the Refractories of Construction.