

castes. This paper contains descriptions of the winged adults of *Hamitermes neogermanus*, Hill, and *H. meridionalis*, Froggatt, which were previously known from sterile castes only, and of eight new species. W. J. HARRIS and D. E. THOMAS: Geological structure of the Lower Ordovician rocks of eastern Talbot, Victoria. The paper deals with the eastern half of the county of Talbot in central Victoria, extending from Castlemaine and Maldon in the north to Kyneton and Daylesford in the south. The physiography of the area is discussed, particularly as modified by the lava flows usually referred to as the Newer Basalt. A large number of new graptolite localities are recorded and the graptolite zones of the Lower Ordovician rocks have been mapped over about 1,000 square miles. The main structural lines in the area trend a little to the west of north and an anticlinorium extending from Maldon to Dean occurs in the west with its eastern limb truncated by the Muckleford fault. East of this is the Guildford-Bullarto synclinorium, and the Chewton-Lyonville anticlinorium, and, after a smaller intervening synclinorium, the Taradale-Lauriston anticlinorium. The relation of gold occurrences to geological structure is briefly discussed.

### Forthcoming Events

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

#### Monday, February 5

UNIVERSITY COLLEGE, LONDON, at 5.30.—L. W. G. Malcolm: "Africa, Past and Present".\*

SOCIETY OF ENGINEERS, at 6—(in the rooms of the Geological Society, Burlington House, Piccadilly, W.1). Inaugural meeting. A. M. A. Struben: Presidential Address.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Lieut.-Col. E. R. L. Peake: "The Rhodesia-Congo Boundary".

#### Wednesday, February 7

EAST LONDON COLLEGE, at 5.30.—Prof. F. E. Fritsch: "Certain Aspects of Algal Biology" (Four succeeding lectures).\*

ROYAL SOCIETY OF ARTS, at 8.—Robert R. Hyde: "The Human Element in Industry".

#### Friday, February 9

UNIVERSITY COLLEGE, LONDON, at 5.30.—Prof. Herbert Freundlich: "Some Aspects of Colloid Science" (succeeding lectures on February 16, 23, March 9 and 16).

ROYAL ASTRONOMICAL SOCIETY, at 5.—Annual General Meeting. Prof. F. J. M. Stratton: "International Co-operation in Astronomy—a Chapter in Astronomical History" (Presidential Address).

ROYAL INSTITUTION, at 9.—Sir J. J. Thomson: "Reminiscences of Physics and Physicists".

### Official Publications Received

#### GREAT BRITAIN AND IRELAND

Lecture on Alchemists in Art and Literature. By Richard B. Pilcher. Pp. 54. (London: Institute of Chemistry.)

British Industries Fair, 1934, Olympia and White City, London, February 19th to March 2nd. Organised by the Department of Overseas Trade. Special Overseas Advance edition. Pp. xvi+544+Ads. xii+Ads. 184. (London: Department of Overseas Trade.) 1s.

Proceedings of the Royal Society of Edinburgh. Vol. 53, Part 4, No. 23: The Mathematical Representation of the Energy Levels of the Secondary Spectrum of Hydrogen. By Dr. Ian Sandeman. Pp. 347-353. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.) 9d.

#### OTHER COUNTRIES

Scientific Papers of the Institute of Physical and Chemical Research. Nos. 468-477: On the Sorption of Hydrogen by Reduced Nickel. 1: Determination of the Quantities of Hydrogen Adsorbed by and diffused in Pure and Spoiled Reduced Nickel, and Determination of the Isothermal Adsorption Lines and the Heat of Adsorption, by Shun-ichiro Iijima; Studies on Dietary Requirements for Lactation. 1: Failure of Lactation on an apparently complete Synthetic Diet, by Waro Nakahara and Fumito Inukai; Growth of Transplanted Tumors in Albino Rats maintained on a Diet with Protein Hydrolysates as substitute for Protein, by Umetsuro Suzuki, Waro Nakahara, Nabetaro Hashimoto and Ryosuke Ikeda; The Influence of Alcohol on the Growth of Transplanted Tumors in Rats, by Umetsuro Suzuki, Waro Nakahara, Nabetaro Hashimoto and Ryosuke Ikeda; The Constitution of Resorcine and Acetylacetone viewed from the Raman Effect, by Taro Hayashi; Studies on Thermo-luminescence Spectra of Fluorites. Part 2: Division of the Bands in Thermo-luminescence Spectrum of Fluorite into Two Groups, by Eiichi Iwase; On the Sorption of Hydrogen by Reduced Nickel. 2: Adsorption of Hydrogen by Reduced Nickel at Low Temperatures, by Shun-ichiro Iijima; Über die Konstitution der Glucoside. Mitteilung 7: Das Glucosid von *Sanguisorba officinalis*, von Shigehiro Abe und Munio Kotake; On the Surface Free Energy of Liquids and Liquid Mixtures, by Yonezō Morino; Resistance of Impact on Water Surface. Part 4: Circular Plane, by Shumpei Watanabe. Pp. 285-307+vi+1-135+18 plates. 1.25 yen. No. 478: La likva fazo de portlandcemento je praktika mikspoporciro. De Tutomu Maeda kaj Ryōzō Syōzi. Pp. 137-152. 20 sen. (Tokyo: Iwanami Shoten.)

Report of the Aeronautical Research Institute, Tōkyō Imperial University. No. 98: On the Transmissibility of the Visible Light through a Cloud of Particles. Part 3: Scattering of Light from Particles. By Daizo Nukiya. Pp. 61-100. 30 sen. No. 99: Investigations on the Origin of the Sounds emitted by Revolving Airscrews. 1: Measurement of Pressure Variations in the Neighbourhood of the Airscrew Blade. By Jūichi Obata, Sakae Morita and Yaei Yosida. Pp. 101-114. 15 sen. (Tōkyō: Koseikai Publishing House.)

Mémoires de Musée Royal d'Histoire Naturelle de Belgique. Mémoire No. 53: Monographie de la Faune malacologique du Bruxelles des Environs de Bruxelles. Par Dr. Maxime Gilbert. Pp. 215+11 plates. Mémoire No. 54: Étude de la variation dans la composition de la florule du toit des veines de l'Olive et du Parc des Charbonnages de Mariemont-Bascoup. Par A. Rousseau. Pp. 30+2 plates. Mémoire No. 55: Le genre alveolites Lamarck dans le dévonian moyen et supérieure de l'Ardenne. Par M. Lecompte. Pp. 50+4 plates. (Bruxelles.)

Mémoires du Musée Royal d'Histoire Naturelle de Belgique, Hors Série. Résultats scientifiques du Voyage aux Indes Orientales Néerlandaises de L.L. A.A. R.R. le Prince et la Princesse Léopold de Belgique. Publiés par V. Van Straelen. Vol. 2, Fascicule 13: i. Sipunculiden, von J. M. A. ten Broeke; ii. Brachiopodes, par E. Leloup; iii. Amphineures, par E. Leloup. Pp. 33+2 plates. Vol. 3, Fascicule 13: Holothuries, par H. Engel. Pp. 42+1 plate. Vol. 3, Fascicule 14: Crustacés décapodes d'eau douce. Par Jean Roux. Pp. 18. Vol. 5, Fascicule 3: Poissons. By Louis Giltay. Pp. 129. (Bruxelles.)

Verhandlungen der Schweizerischen Naturforschenden Gesellschaft. 114 Jahresversammlung vom 1 bis 3 September 1933 in Aaldorf. Pp. 510+8 plates. (Aarau: H. R. Sauerländer und Co.)

New Zealand: Department of Lands and Survey. Annual Report on Scenery-Preservation for the Year ended 31st March 1933. Pp. 8. (Wellington: Government Printer.)

Annales de l'Observatoire de Paris, Section d'Astrophysique, à Meudon. Publiées par Ernest Esclançon. Tome 6: Cartes synoptiques de la chromosphère solaire et catalogue des filaments de la couche supérieure. Fascicule 6: Années 1928-1929-1930. Pp. 11+85. (Meudon.)

Commonwealth of Australia: Council for Scientific and Industrial Research. Pamphlet No. 46: The Holding Power of Special Nails. By Ian Langlands. (Division of Forest Products, Technical Paper No. 11.) Pp. 30. (Melbourne: Government Printer.)

Proceedings of the United States National Museum. Vol. 82, Art. 25: Additional Notes on the Birds of Haiti and the Dominican Republic. By Alexander Wetmore and Frederick C. Lincoln. (No. 2966.) Pp. 68+6 plates. Vol. 82, Art. 27: New Species of Buprestid Beetles from Mexico and Central America. By W. S. Fisher. (No. 2968.) Pp. 47. Vol. 82, Art. 28: Revision of the Beetles of the Genus *Disonycha* occurring in America North of Mexico. By Doris Holmes Blake. (No. 2969.) Pp. 66+8 plates. (Washington, D.C.: Government Printing Office.)

Abridged Scientific Publications from the Kodak Research Laboratories. Vol. 15, 1931-1932. Pp. 311+VIII. (Rochester, N.Y.: Eastman Kodak Co.)

#### CATALOGUES

Direct Reading Universal Compass. Pp. 8. (London: Thorold Drawing Instruments.)

A Short List of Second-hand Books chiefly in Natural, Physical Science and Mathematics. (Catalogue No. 340.) Pp. 16. (Oxford: B. H. Blackwell, Ltd.)

Geographical Books: a Bibliographical List of University and School Text and Reference Books prepared for the use of Teachers and Students. (No. 422.) Pp. 86. (Cambridge: W. Heffer and Sons, Ltd.)

#### Editorial and Publishing Offices:

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