

(2?), hexene (1) and a dihexylic ether. Mr. van Erp has also observed the behaviour of neutral nitramines with alkalis. Dimethylnitramine gives nitrous acid, monomethylamine, formic acid (and methyl alcohol?). Diethyl- and dipropyl-nitramine seemed not to be changed. Normal butylmethyl-nitramine, less easily than dimethylnitramine, gives nitrous acid, butylamine, formic acid (and methyl alcohol?). It therefore seems that mixed nitramines give the amine with the greatest alkyl, or the methyl radical is most easily separated from the nitrogen.—On quadrinodal quintics, by Mr. Jan de Vries.—On the cranial nerves of vertebrates in amphioxus, by Mr. van Wijhe. The olfactory nerve represents a type of its own. The ventral nerves, or nerves of the myotomes, do not exhibit special characteristics. Among the dorsal or septal nerves, the trigeminal, facial, glossopharyngeal and vagus nerves could be recognised with more or less probability, chiefly by their relations to the branchial clefts, the first of which on the left side becomes the opening of the velum.

DIARY OF SOCIETIES.

LONDON.

THURSDAY, NOVEMBER 29.

SANITARY INSTITUTE, at 8.—Workers in Copper, Zinc, Brass, and Tin: Dr. R. M. Simon.

FRIDAY, NOVEMBER 30.

ROYAL SOCIETY, at 4.—Anniversary Meeting.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Sub-aqueous Excavation at Newry: C. H. Olley.

SANITARY INSTITUTE, at 8.—Sanitary Law: Prof. A. Wynter Blyth.

SUNDAY, DECEMBER 2.

SUNDAY LECTURE SOCIETY, at 4.—Village Life in India: Mr. R. W. Frazer.

MONDAY, DECEMBER 3.

SOCIETY OF ARTS, at 8.—Modern Developments in Explosives: Prof. Vivian B. Lewes.

SOCIETY OF CHEMICAL INDUSTRY (Burlington House), at 8.—The Rational Sterilisation of Alimentary Liquids: Mr. E. W. Kuhn (of Paris).—An Investigation of the Natural Sodium Sulphate Lakes of Wyoming, U.S.A.: Dr. D. H. Atfield.—Specimens of India-rubber, and Petroleum Oil, Varnish, and Soap will be exhibited by Mr. Thos. Christy.

VICTORIA INSTITUTE, at 4.30.—Semitic Languages: Mr. T. G. Pinches.

TUESDAY, DECEMBER 4.

ZOOLOGICAL SOCIETY, at 8.30.—On some Points in the Anatomy of *Ornithorhynchus paradoxus*: Mr. T. Manners Smith.—On certain Points in the Visceral Anatomy of *Ornithorhynchus*: Mr. F. E. Beddard, F.R.S.—On some Remarkable Corals of Great Size from North-West Australia: Prof. F. Jeffrey Bell.—Second Report on Additions to the Lizard Collection in the Natural History Museum: Mr. G. A. Boulenger, F.R.S.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Machinery of War-Ships: Mr. Albert J. Durston.—Colliery Surface-Works: Mr. E. B. Wain.

ROYAL STATISTICAL SOCIETY, at 4.45.—The Eleventh United States Census: Hon. R. P. Porter.—Exhibition of the Hollerith Electrical Counting Machine: Dr. H. Hollerith.

WEDNESDAY, DECEMBER 5.

SOCIETY OF ARTS at 8.—Fire Protection: Mr. Edwin O. Sachs.

GEOLOGICAL SOCIETY, at 8.—Supplementary Note on the Narborough District (Leicestershire): Prof. T. G. Bonney, F.R.S.—The Tarns of Lakeland: Mr. J. E. Marr, F.R.S.—The Marble Beds of Natal: Mr. David Draper.—Description of a New Instrument for Surveying by the Aid of Photography, with some Observations upon the Applicability of the Instrument to Geological Purposes: Mr. J. Bridges Lee.

ENTOMOLOGICAL SOCIETY, at 8.—A List of the Lepidoptera of the Khasia Hills, Part III.: Colonel Charles Swinhoe.—A Monograph of British Braconidae, Part VI.: Rev. T. A. Marshall.—On the Longicorn Coleoptera of the West India Islands: Mr. Charles J. Gahan.—Notes on the Fungus Growing and Eating Habit of *Sericomyrmex opacus*, Mayr.: Mr. F. W. Ulrich.—An Apparent Case of Sexual Preference in a Male Insect: Prof. E. B. Poulton, F.R.S.

THURSDAY, DECEMBER 6.

ROYAL SOCIETY, at 4.30.—Experimental Researches on Vegetable Assimilation and Respiration. No. 1. On a New Method for Investigating the Carbonic Acid Exchanges of Plants. No. 2. On the Paths of Gaseous Exchange between Aerial Leaves and the Atmosphere: Mr. F. F. Blackman.

SOCIETY OF ARTS, at 4.30.—Roman and British Indian Systems of Government: Hon. W. Lee-Warner, C.S.I.

LINNEAN SOCIETY, at 8.—A New Revision of Dipterocarpeæ, with Lantern Slides: Sir D. Brandis, F.R.S.—On the Spinning Glands in *Phrynus*: Mr. H. M. Bernard.

CHEMICAL SOCIETY, at 8.—The Use of the Globe in the Study of Crystallography: J. Y. Buchanan, F.R.S.—Latent Heat of Fusion: Mr. H. Crompton.—New Method of Preparing Dihydroxytartaric Acid: Mr. H. J. H. Fenton.—Essence of Oil of Hucus: Mr. A. C. Chapman.

LONDON INSTITUTION, at 6.—The Fauna of Rivers and Lakes: Prof. Sydney Hickson.

FRIDAY, DECEMBER 7.

ROYAL INSTITUTION, at 5.—General Monthly Meeting.

GEOLOGISTS' ASSOCIATION, at 8.—Note on Megalosaurian Teeth, discovered by Mr. J. Alstone in the Portlandian of Aylesbury: Mr. A. Smith Woodward.—On the Geology of the St. Gothard Pass: Mr. H. W. Monckton.

SATURDAY, DECEMBER 8.

ROYAL BOTANIC SOCIETY, at 3.45.

BOOKS, PAMPHLETS, and SERIALS RECEIVED

BOOKS.—Imperial University of Japan, Calendar 1893-4 (Tokyo, Maruya).—Catalogue of the Snakes in the British Museum (Natural History): G. A. Boulenger, Vol. 2 (London).—The Flower of the Ocean, the Island of Madeira: Surgeon-General C. A. Gordon (Baillière).—Topographische Anatomie des Pferdes: Ellenburger and Baum, Zweiter Teil (Berlin, Parey).—Butterflies and Moths (British): W. Furneaux (Longmans).

PAMPHLETS.—Sulle Oscillazioni Elettriche a Piccola Lunghezza d'Onda &c.: Prof. A. Righi (Bologna).—North of England Institute of Mining and Mechanical Engineers: Report of the Proceedings of the Flameless Explosives Committee. Part 1. Air and Combustible Gases: A. C. Kayll (Reid).—Resultate der im Sommer 1893 in dem Nördlichsten Theile Norwegens ausgeführten Pendelbeobachtungen: O. E. Schiøtz (Kristiania, Dydwad).

SERIALS.—Cassell's Magazine, December (Cassell).—Proceedings of the Aristotelian Society, Vol. 2, No. 3, Part 2 (Williams).—Transactions and Proceedings of the Botanical Society of Edinburgh, Vol. xx, Part 1 (Edinburgh).—Proceedings of the American Academy of Arts and Sciences, new series, Vol. xxi. (Boston).—Brain, Part lxxviii. (Macmillan).—Kryptogamen-Flora von Schlesien, iii. Band, 2 Hälfte, 3 Liefg. (Breslau, Kern).—Journal of the Institute of Jamaica, September (Sothoran).—Longman's Magazine, December (Longmans).—Chambers's Journal, December (Chambers).—Natural Science, December (Macmillan).—Good Words, December and Christmas (Isbister).—Sunday Magazine, December and Christmas (Isbister).—Century Magazine, December (Unwin).—Humanitarian, December (Hutchinson).—Udgivet af den Norske Gradmaalings-Kommission, Vandstansobservationer, v. Hefte (Christiania, Fabritius).—Botanische Jahrbücher, &c., Zwanzigster Band, 1 and 2 Heft (Leipzig, Engelmann).

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