and can be weighed after thorough washing by decantation. Test experiments gave results within one per cent.—The culture of some lower organisms in modified sea water, by MM. P. Duflocq and P. Lejonne. Several pathogenic organisms can become accustomed to grow in a medium containing sea water, also certain moulds (Aspergillus niger, Muguet, Actinomyces).—
Action of the bacterium of sorbose on the aldehydic sugars, by
M. Gabriel Bertrand. Arabinose, dextrose, and galactose are converted by the action of the sorbose bacteria into arabonic, gluconic, and galactonic acids respectively. - Instantaneous submarine photography, by M. Louis Boutan. In the earlier attempts at submarine photography, at least half an hour's exposure was required. The apparatus has now been so far improved that photographs have been taken of fish at distances at 1.5 to 2 metres from the lens, without any artificial light being necessary.—The post-larval stages of Arenicolae, by M. Pierre Fauvel.—The cephalic eyes in Lamellibranchs, by M. Paul Pelseneer.—On the Chamydomonadineae, by M. P. A. Dangeard.—On some new facts in the geology of the Dauphiny Alps, by M. W. Kilian.—On some lakes in the Eastern, Upper, and Lower Pyrenees, by MM. André Delebecque and Etienne Ritter.—Barometer movements on the meridian of the moon, by M. A. Poincaré.

DIARY OF SOCIETIES.

THURSDAY, NOVEMBER 17.

ROYAL SOCIETY, at 4.30.—Further Note on the Sensory Nerves of the Eye-Muscles: Prof. Sherrington, F.R.S.—Further Observations on the Effects of Partial Thyroidectomy: W. Edmunds.—Contributions to our Knowledge of the Formation, Storage, and Depletion of Carbohydrates in Monocotyledons: J. Parkin.—An Experiment in Search of a Directive Action of One Quartz Crystal on another: Prof. Poynting, F.R.S., and P. L. Gray.—The Electrical Conductivity and Luminosity of Flames containing Vaporised Salts: Prof. Smithells, H. M. Dawson, and H. A. Wilson.

LINNEAN SOCIETY, at 8.—On some Spiders from Chile and Parasicolarization.

Wilson.

LINNEAN SOCIETY, at 8.—On some Spiders from Chile and Peru, collected by Dr. Platte of Berlin: F. Pickard Cambridge.—The Botanical Results of a Journey into the Interior of Western Australia; with some Observations on the Nature and Relations of the Desert Flora, and on the Probable Origin of the Australian Flora as a whole: Spencer Le M.

Moore.

MEMICAL SOCIETY, at 8.—Preparation of Hyponitrite from Nitrite through Oxyamidosulphonate: Dr. E. Divers, F.R.S., and T. Haga.—

(r) Absorption of Nitric Oxide in Gas Analysis; (2) Interaction of Nitric Oxide with Silver Nitrate; (3) Preparation of Pure Alkali Nitrites; (4) The Reduction of an Alkali Nitrite by an Alkali Metal; (5) Hyponitrites: their Preparation by Sodium or Potassium and Properties: Dr. E. Divers, F.R.S.

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FRIDAY, NOVEMBER 18.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Production of Liquid Air, and its Application to Chemical and other Industries: Cecil Lightfoot.

QUEKETT MICROSCOPICAL CLUB, at 8.

MONDAY, NOVEMBER 21.

Society of Arts, at 8.—Acetylene: Prof. Vivian B. Lewes.
IMPERIAL INSTITUTE, at 8.30.—The Stalactite Caves of New South
Wales: Frederick Lambert.

TUESDAY, NOVEMBER 22.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Paper to be further discussed: Electrical Transmission of Power in Mining: William Beedie Esson.

ANTHROPOLOGICAL INSTITUTE, at 8.30.—The Hill Tribes of the Central Indian Hills: their Ethnology, Customs, and Sociology (with Lantern Illustrations): Wm. Crooke.

WEDNESDAY, NOVEMBER 23.

SOCIETY OF ARTS, at 8.—Long Distance Transmission of Electric Power: Prof. George Forbes, F.R.S.
GEOLOGICAL SOCIETY, at 8.—Note on a Conglomerate near Melmerby, Cumberland: J. E. Marr, F.R.S.—Geology of the Great Central Railway—Rugby to Catesby: Beeby Thompson.—On the Remains of Amia from Oligocene Strata in the Isle of Wight: E. T. Newton, F.R.S.

THURSDAY, NOVEMBER 24.

ROYAL SOCIETY, at 4.30.
INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Rotatory Converters:
Prof. S. P. Thompson, F.R.S.

FRIDAY, NOVEMBER 25.

Physical Society, at 5.—On the Properties of Liquid Mixtures: R. A. Lehfeldt.—On certain Diffraction Fringes as applied to Micrometric Observations: L. N. G. Filon.

BOOKS, PAMPHLETS, and SERIALS RECEIVED.

Books.—La Cytologie Expérimentale: Dr. A. Labbé (Paris, Carré).—Publications of the British Fire Prevention Committee, Vol. 1 (1 Waterloo Place).—Allgemeine Biologie: Prof. M. Kassowitz, i. Band (Wien, Perles).—General Report on the Operations of the Survey of India Department during 1896-97 (Calcutta).—From Matter to Man: A. R. Dewar (Chapman).—Wild Animals in Captivity: A. D. Bartlett (Chapman).—Leçons de Chimie Physique: Prof. J. H. Van 't Hoff, translated by Prof. Corvisy,

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Part r (Paris, Hermann).—Traité Élémentaire de Mécanique Chimique : Prof. P. Duhem, Tome iii. (Paris, Hermann).—Through Arctic Lapland : C. Hyne (Black).—The Total Solar Eclipse, January 22, 1898 (Dehra Dûn).—Traité d'Astronomie Stellaire: Prof. C. André, r Partie (Paris, Gauthier-Villars).—Practical Inorganic Chemistry for Advanced Students: C. Jones (Macmillan).—Birds of the British Isles: J. Duncan (Scott).—Aperçus de Taxinomie Générale: J. P. Durand (Paris, Alcan).—Life of Man on the High Alps; A. Mosso, translated by E. L. Kiesow (Unwin). PAMPHLETS.—Review of Mineral Production in India for 1897 (Calcutta).—Replica di Krupp alla Protesta del Signor Bashforth: translated by F. Bashforth (Cambridge University Press).—Mines and Quarries: General Report and Statistics for 1897, Part 3, Output (Darling).—Temperature Entropy Chart; Captain Sankey (Rugby, Frost).—Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley: C. S. Prosser and E. R. Cumings (New York).—The Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York: J. Hall and C. S. Prosser, Part 1 (New York).—Zwanzig Briefe g. z. Jöns Jakob Berzelius und Christian Friedrich Schönbein, 1836–1847, Herausgegeben von Prof. Kahlbaum (Basel, Schwabe).

Serials.——Morphologisches Jahrbuch, 26 Band, 2 Heft (Leipzig).—

(Basel, Schwabe).

SERIALS.—Morphologisches Jahrbuch, 26 Band, 2 Heft (Leipzig).—
Scribner's Magazine, November (Low).—Observatory November (Taylor).

—Encyklopaedie der Naturwissenschaften, Erste Abthg., 73 and 74 Liefg.;
Dritte Abthg., 44 and 45 Liefg. (Breslau).—Engineering Magazine, November (222 Strand).—Himmel und Erde, November (Berlin).—Quarterly Journal of the Geological Society, November (Longmans).—American Naturalfist, October (Ginn).—Astrophysical Journal, October (Chicago).—The Process Photogram, November (Dawbarn).—Transactions of the Edinburgh Field Naturalists' and Microscopical Society, Vol. iii. Part (Blackwood).—American Journal of Science, November (New Haven).—Psychological Review, November (Macmillan).—American Journal of Mathematics, October (Baltimore).—Journal of the Chemical Society, November (Gurney).

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