

These are thick bacilli, of length usually less than  $2 \mu$ ; all are sugar ferments, and anaerobic.—B. **Collin**: The hypertrophied forms and degenerated growth among the Acinetarians. Intensive culture and constant over-feeding are capable of producing on the organism of these infusoria profound modifications, both morphological and physiological.—Ph. **Dantzenberg**: The marine molluscs found in the scientific expeditions of M. A. Gruvel in West Africa, 1906-9.—W. **Wietrzykowski**: Contributions to the study of the development of Lucernarids.—G. **Eisenmenger**: The glacial excavation of Lake Garda (Italy). If the origin of the Lake of Garda is a tectonic depression dating from Mesozoic, or if, later, different movements took place with a dislocation of Mount Baldo, it is necessary to recognise that the actual configuration of Lake Garda is the work of a very powerful glacial excavation.

## DIARY OF SOCIETIES.

### THURSDAY, NOVEMBER 11.

ROYAL SOCIETY, at 4.30.—The Vacuolation of the Blood-platelets—An Experimental Proof of their Cellular Nature: H. C. Ross.—Further Results of the Experimental Treatment of Trypanosomiasis—being a Progress Report to a Committee of the Royal Society: H. G. Plimmer and Captain W. B. Fry.—*Hillousia mirabilis*, a Giant Sulphur Bacterium: G. S. West and B. M. Griffiths.—The Modes of Division of *Spirochaeta recurrentis* and *S. duttoni* as observed in the Living Organism: H. B. Fantham and Miss A. Porter.—On the Supposed Presence of Carbon Monoxide in Normal Blood and in the Blood of Animals anaesthetised with Chloroform: G. A. Buckmaster and J. A. Gardner.—The Origin and Destiny of Cholesterol in the Animal Organism. Part vi.—The Excretion of Cholesterol by the Cat: G. W. Ellis and J. A. Gardner.—The Elasticity of Rubber Balloons and Hollow Viscera (with a Note by W. Sutherland): Prof. W. A. Osborne.

MATHEMATICAL SOCIETY, at 5.30.—Annual General Meeting.—(1) The Ordinal Relations of the Terms of a Convergent Sequence; (2) The Application to Dirichlet's Series of Borel's Exponential Method of Summation; (3) Theorems relating to the Summability and Convergence of Slowly Oscillating Series: G. H. Hardy.—Notes on Synthetic Geometry: Prof. W. Esson.—Kummer's Quartic Surface as a Wave Surface: H. Bateman.—The Green's Function in a Wedge, and Other Problems in the Conduction of Heat: Prof. H. S. Carslaw.—The Envelope of a Line cut Harmonically by two Conics: J. L. S. Hatton.—On a Case of  $q$ -Hypergeometric Series: Rev. F. H. Jackson.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Presidential Address: Dr. Gisbert Kapp.

### FRIDAY, NOVEMBER 12.

PHYSICAL SOCIETY, at 8.—On the Absorption Spectrum of Potassium Vapour: P. V. Bevan.—Some Further Notes on the Physiological Principles underlying the Flicker Photometer: J. S. Dow.—Exhibition of a Colour-perception Spectrometer: Dr. F. W. Edridge-Green.—Tables of Ber and Bei and Ker and Kei Functions, with Furthur Formulæ for their Computation: H. G. Savidge.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Observations of Jupiter, 1907-8: Scriven Bolton.—On the use of an Ordinary Telescope in the Zenith for Determination of Time and Latitude: R. H. M. Bosanquet.—Star Colours and Spectral Types: Stars of Spectrum Type O: W. S. Franks.—Observations of Jupiter's Galilean Satellites, 1909: R. T. A. Innes.—The Effective Temperature of 100 Fixed Stars: J. Wilsing and J. Scheiner.—A New Map of the Moon: W. Goodacre.—An Addition to the Theoretical Secular Acceleration of the Moon's Mean Motion: E. W. Brown.—An Error in the New Lunar Theory: E. W. Brown.—On the Plans for New Tables of the Moon's Motion: E. W. Brown.—The Magnetic Storm of 1909 Sept. 25, and the Associated Solar Disturbance: W. J. S. Lockyer.—A Solar Outburst and a Magnetic Storm: C. Michie Smith.—Spectroscopic Determination of the Systematic Motions of the Stars: S. S. Hough and J. Halm.—Mesures récentes sur la Planète Mars: R. Jonckheere.—Aberration Day Numbers for 1910: H. C. Plummer.—Description of the Society's Harrison Clock: E. T. Cottingham.—The Cyclones of the Indian Ocean, 1856-67, and their Association with the Solar Rotation: E. W. Maunder.—*Probable Papers*: Solar Parallax Papers, No. 8, The Mass of the Moon derived from Photographic Observations of Eros, 1900-1: A. R. Hinks.—The Sun-spots and Associated Magnetic Storm of 1909 September and October: Rev. A. L. Cortie.

### MONDAY, NOVEMBER 15.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Mesopotamia: Past, Present, and Future: Sir William Willcocks, K.C.M.G.

### TUESDAY, NOVEMBER 16.

MINERALOGICAL SOCIETY, at 8.—Anniversary Meeting.—On an Occurrence of Native Copper with Tin Ore in the Federated Malay States: J. B. Scrivenor.—On a Meteoric Stone from Simondium, Cape Colony: Dr. G. T. Prior.—On Sartorite and other Minerals from the Binnenthal: Prof. W. J. Lewis.—On the Occurrence of Alstonite and Ullmannite, a Species New to Britain in a Barytes-witherite Vein in the New Brancepeth Colliery, near Durham: L. J. Spencer.—A Pocket Sclerometer: C. J. Woodward.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Discussion: The Single-phase Electrification of the Heysham, Morecambe and Lancaster Branch of the Midland Railway: J. Dalziel and J. Sayers.—The Equipment and Working-results of the Mersey Railway under Steam and under Electric Traction: J. Shaw.—The Effect of Electrical Operation on the Permanent-way Maintenance of Railways, as Illustrated on the Tynemouth Branches of the North-Eastern Railway: Dr. C. A. Harrison.

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ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—The Rothwell Crania: F. G. Parsons.

ROYAL STATISTICAL SOCIETY, at 5.—Inaugural Address: Sir J. A. Baines, President.

### WEDNESDAY, NOVEMBER 17.

ROYAL SOCIETY OF ARTS, at 8.—An Imperial Navy: Sir W. H. White, K.C.B., F.R.S.

ROYAL METEOROLOGICAL SOCIETY, at 7.30.—Methods Employed for Observing Pilot Balloons: C. J. P. Cave.—Registering Balloon Ascents at Gloucester, June 23 and 24, 1909: W. Marriott.—Winter Temperatures on Mountain Heights: W. P. Brown.—The Semi-diurnal Variation of Rainfall: E. Gold.

GEOLOGICAL SOCIETY, at 8.

ENTOMOLOGICAL SOCIETY, at 8.

ROYAL MICROSCOPICAL SOCIETY, at 8.—On the Recent and Fossil Foraminifera of the Shore Sands of Selsey Bill, Sussex; Part iv.: Edwd. Heron-Allen and A. Earland.

### THURSDAY, NOVEMBER 18.

ROYAL SOCIETY, at 4.30.—Bakerian Lecture: The Statistical and Thermodynamical Relations of Radiant Energy: Sir J. Larmor, Sec. R.S.

LINNEAN SOCIETY, at 8.—A New Tipulid Subfamily: W. Wesché.—Fresh-water Rhizopods from the English Lake District: J. W. Brown.

INSTITUTION OF MINING AND METALLURGY, at 8.

### FRIDAY, NOVEMBER 19.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—An Internal-combustion Pump and other Applications of a New Principle: Herbert A. Humphrey.

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