

M. E. Goursat.—On singular points situated on the circle of convergence, and on the summation of divergent series, by M. Leau.—Measurement of the velocity of sound, by M. Frot. The experiments were made near Bourges, at a temperature near 0° C., the time being measured automatically by electric chronographs. Two sets of experiments gave for the velocity in air at 0° mean results of 330.6 and 330.9 metres per second.—On the tones of vibrating strings, by M. A. Guillemin. By suitably fixing any portion of a vibrating string any desired overtone can be produced; but this does not in any way prove that this note really existed as a partial tone in the original note given by the string.—On the atomic weight of tellurium, in relation to the multiple proportions of the atomic weights of other simple bodies, by M. H. Wilde.—On the positions of tellurium and iodine in periodic systems of the elements, by M. H. Wilde. Remarks on the recent determination by Metzner of the atomic weight of tellurium (128) as invalidating the periodic arrangements of Mendelejeff, Crookes and others.—On calcium amalgam, by M. J. Ferée.—Action of metallic sulphates on potassium paratungstate, by M. L. A. Hallopeau.—On the amines and amido-derivatives of the aldehydes, by M. Marcel Delépine. A thermochemical paper.—On the changes in composition which take place in fatty seeds in the course of germination, by M. L. Maquenne. The oily materials in the seeds of the earth-nut and castor-oil plant undergo a rapid diminution during germination, the latter being especially marked in this respect, the change being accompanied by an increase in carbohydrates.—Contribution to the biology of wine yeasts, by M. J. A. Cordier. The appearance of *Saccharomyces* upon fruit, especially the grape, at the period of ripening, has hitherto been described as due to the action of insects, but it would appear from the experiments quoted that the air is really the principal factor in the transport of these yeasts.—The specific characters of *Endomyces albicans*, by M. Paul Vuillemin.—On the place of the Phoronidæ in the classification of animals, and on their relations with the vertebrates, by M. Louis Roule.—On the respiratory apparatus of the larvae of entomophagous Hymenoptera, by M. L. G. Seurat. It is shown that the respiratory apparatus of the different larvae of entomophagous Hymenoptera, although all built on the same fundamental plan, present differences in the number and arrangement of some of their parts, sufficient to establish distinctive characters of the several families. There is not yet sufficient knowledge, however, to draw any general conclusions.—On an organ, not previously described, which closes the poison reservoir in ants, and on the method of stinging in the same, by M. Charles Janet.—New observations on the cave and subterranean river of Hansur-Lesse (Belgium), by M. Martet. The paper is accompanied by a plan and section of the cave and stream. The unknown part of its course is now only two kilometres.

DIARY OF SOCIETIES.

THURSDAY, NOVEMBER 3.

CHEMICAL SOCIETY, at 8.—A Determination of the Equivalent of Cyanogen: George Dean.—Note on the Action of Light on Platinum, Gold, and Silver Chlorides: E. Sonstadt.—Methanetrissulphonic Acid; E. H. Bagnall.—A Composite Sodium Chlorate Crystal in which the Twin Law is not followed: W. J. Pope.—On the Composition of American Petroleum: Dr. Sydney Young, F.R.S.—(1) On the Separation of Normal and Iso-heptane from American Petroleum; (2) On the Action of Fuming Nitric Acid on the Paraffins and other Hydrocarbons: Dr. F. E. Francis and Dr. Sydney Young, F.R.S.—On the Boiling Points and Specific Gravities of Mixtures of Benzene and Normal Hexane: D. H. Jackson and Dr. Sydney Young, F.R.S.

LINNEAN SOCIETY, at 8.30.—On *Craterostigma pumilum*, Hochst.: Prof. H. Marshall Ward, F.R.S., and Miss Dale.—Amphipoda from the Copenhagen Museum and other Sources, Part II.: Rev. T. R. Stebbing, F.R.S.—Exhibitions: Embryos of *Hatteria*: Prof. Howes, F.R.S.—Photographs of Chicken with Foster-Parent a Common Buzzard: Alan F. Crossman.—*Nitella hyalina*, Ag., a New British Plant: H. and J. Groves.

FRIDAY, NOVEMBER 4.

GEOLOGISTS' ASSOCIATION, at 8.—Conversazione and Exhibition of Specimens.

QUEKETT MICROSCOPICAL CLUB, at 8.

TUESDAY, NOVEMBER 8.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Extraction of Nickel from its Ores by the Mond Process: Prof. W. C. Roberts-Austen, C.B., F.R.S.

ANTHROPOLOGICAL INSTITUTE, at 8.30.—The Tribes inhabiting the Mouth of the Wanigela River, New Guinea: R. E. Guise.

WEDNESDAY, NOVEMBER 9.

GEOLOGICAL SOCIETY, at 8.—On the Palæozoic Radiolarian Rocks of New South Wales: Prof. T. W. Edgeworth David and E. F. Pittman.—On the Radiolaria in the Devonian Rocks of New South Wales: Dr. G. J. Hinde, F.R.S.

THURSDAY, NOVEMBER 10.

MATHEMATICAL SOCIETY, at 8.—Some Secondary Needs and Opportunities of English Mathematicians: Presidential Address.—The Structure of certain Linear Groups with Quadratic Invariants: Dr. L. E. Dickson.—Multiform Solutions of certain Differential Equations of Physical Mathematics and their Applications: H. S. Carslaw.—A Discovery in the Theory of Compound Partitions: Major Macmahon, R.A., F.R.S.

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

FRIDAY, NOVEMBER 11.

ROYAL ASTRONOMICAL SOCIETY, at 8.

PHYSICAL SOCIETY, at 5.—Discussion on Mr. A. Campbell's Paper on the Magnetic Fluxes in Meters and other Electrical Instruments, to be opened by Prof. W. E. Ayrton, F.R.S.—On the Propagation of Damped Electrical Oscillations along Parallel Wires: Prof. W. B. Morton.—On the Properties of Liquid Mixtures: R. A. Lehfeldt.

BOOKS, PAMPHLETS, and SERIALS RECEIVED.

Books.—Domestic Hygiene: Dr. A. W. Williams (Bell).—A Manual of the Grasses of New South Wales: J. H. Maiden (Sydney, Gullick).—Manual of Bacteriological Technique and Special Bacteriology: T. Bowhill (Edinburgh, Oliver).—The Teacher's Manual of Object Lessons in Domestic Economy: V. T. Murché, Vol. 2 (Macmillan).—Electricity made Easy: Drs. Houston and Kennelly (Sonnenschein).—Algebra made Easy: Drs. Houston and Kennelly (Sonnenschein).—The Interpretation of Mathematical Formulae: Drs. Houston and Kennelly (Sonnenschein).—A Pocket Dictionary of Electrical Words, Terms, and Phrases: Dr. E. J. Houston (Sonnenschein).—Organic Evolution Cross-Examined: Duke of Argyll (Murray).—The Groundwork of Science: Dr. St. Geo. Mivart (Murray).—The Natural History of Digestion: Dr. A. L. Gillespie (W. Scott).—Graham-Otto's Ausführliches Lehrbuch der Chemie, Erster Band, Dritte Abthg. (Braunschweig, Vieweg).—University Collegen, Nottingham, Calendar 1898-99 (Nottingham, Sands).—An Introduction to Practical Physics: D. Rintoul (Macmillan).—The Egyptian Soudan: its Loss and Recovery: Lieuts. Alford and Sword (Macmillan).—L'Art de Découvrir les Sources et de les Capter (Paris, Baillière).—Marvels of Ant Life: W. F. Kirby (Partridge).

PAMPHLETS.—Lessons in Domestic Science: E. R. Lush, Part 2 (Macmillan).—Ein Ausflug auf den Aetna: A. Belar (Laibach, Kleinmayr).

SERIALS.—Longman's Magazine, November (Longmans).—Good Words, November (Isbister).—Sunday Magazine, November (Isbister).—Journal of the Royal Statistical Society, September (Stanford).—Transactions of the Institution of Engineers and Shipbuilders in Scotland, October (Glasgow).—Record of Technical and Secondary Education, October (Macmillan).—Chambers's Journal, November (Chambers).—Century Magazine, November (Macmillan).—Humanitarian, November (Duckworth).—National Geographic Magazine, October (Washington).—Physical Review, August (Macmillan).—Contemporary Review, November (Isbister).—Journal of the Royal Microscopical Society, October (20 Hanover Square).

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