

of the quince race were yellow.—The bacterial origin of *Macrozamia* gum: Dr. R. Greig **Smith**. An organism, *Bacillus macrozamiæ*, n.sp., isolated from the tissues of *Macrozamia spiralis* which was exuding a gum, produced, upon l  velose media, a slime from which a gum was obtained.—On a new species of Rhizophyllum from the Upper Silurian rocks of Yass, New South Wales: A. J. **Shearsby**. A third species of Calceola-like, operculate, rugose corals is described.

DIARY OF SOCIETIES.

THURSDAY, JANUARY 12.

MATHEMATICAL SOCIETY, at 5.30.—Generational Relations for the Abstract Group simply Isomorphic with the Abstract Group LF [2, 2^m]; Dr. W. Bussey.—On a Class of Expansions in Oscillating Functions: Prof. A. C. Dixon.—Isogonal Transformation and the Diameter Transformation: H. L. Trachtenberg.—A Generalisation of the Legendre Polynomial: H. Bateman.—Current Flow in Rectangular Conductors: H. Fletcher Moulton.—Basic Generalisations of some well known Analytic Functions: Rev. F. H. Jackson.—On the Kinematics and Dynamics of a Granular Medium in Normal Piling: J. H. Jeans.—On Alternants and Continuous Groups: Dr. H. F. Baker.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Combination of Dust Destructors and Electricity Works Economically Considered: W. P. Adams. (Conclusion of Discussion).—Fuel Economy in Steam Power Plants: Wm. H. Booth and J. B. C. Kershaw.

FRIDAY, JANUARY 13.

ROYAL ASTRONOMICAL SOCIETY, at 5.—On the Temperature of Sun-spots and on the Spectrum of an Artificial One: W. E. Wilson.—On Terms of Long Period in the Complete Expression for the Moon's Longitude: E. Nevill.—The Longitude of the Moon's Perigee: P. H. Cowell.—On the Relative Brightness of Stars: J. E. Gore.—On the Variable Star *Y Aurigæ*: A. S. Williams.—The Spiral Nebula H. I. 153 Ceti: W. S. Franks.—Sun-spots and Magnetic Storms: A. Schuster.—*Promised Papers*: Magnetic Storms and Associated Sun-spots: Rev. A. L. Cortie.—On the Possible Effect of Radiation on the Motion of Comets: H. C. Plummer.—Note on the Re-determination of the Paris-Greenwich Longitude (communicated by the Astronomer-Royal).—Observations of the Spectra of Sun-spots, Region C to D (communicated by the Astronomer-Royal).—*Probable Discussion* of Mr. Maunder's Paper in the *Monthly Notices*, on the Connection of Magnetic Storms with the Rotation of the Sun.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Theory of Electricity and Magnetism: James Swinburne.

MALACOLOGICAL SOCIETY, at 8.—A Review of the Genera of the family Mytilid  : A. J. Jukes-Browne.—Note on the Type of Geomelania, with Description of New Species: E. R. Sykes.—On Three Species of *Dyakia* from Sumatra: E. R. Sykes.—Some Nudibranchs from the Pacific, including a New Genus, *Chromodoridella*: Sir C. Eliot, K.C.M.G.—Notes on Two Rare British Nudibranchs, *Hero formosa*, var. *arborescens*, and *Staurodoris maculata*: Sir C. Eliot, K.C.M.G.—Description of a new *Achatina* from the Zambesi: H. B. Preston.

MONDAY, JANUARY 16.

VICTORIA INSTITUTE, at 4.30.—The History of Rajputana: Col. T. Holbein Hendley.

TUESDAY, JANUARY 17.

ROYAL INSTITUTION, at 5.—The Structure of Animals: Prof. L. C. Miall, F.R.S.

ROYAL STATISTICAL SOCIETY, at 5.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The River Hooghly: L. F. Vernon-Harcourt.

ZOOLOGICAL SOCIETY, at 8.30.—On a Collection of Sipunculids made at Singapore and Malacca: W. F. Lanchester.—On a Collection of Gephyrea from Zanzibar: W. F. Lanchester.—On the Sipunculids and Echiurids collected during the "Skeat Expedition" to the Malay Peninsula: W. F. Lanchester.—On the Oral and Pharyngeal Denticles of Elasmobranchs: A. D. Imms.—A Contribution to the Anatomy of *Chlamydosaurus* and some other Agamid  : F. E. Beddard, F.R.S.—A Note on the Brain of *Cynopithecus niger*: F. E. Beddard, F.R.S.

WEDNESDAY, JANUARY 18.

CHEMICAL SOCIETY, at 5.30.—(1) Nitrogen Halogen Derivatives of the Sulphonamides. Part i.: Sulphondichloroamides and Sulphonalkylchloroamides.—(2) Nitrogen Halogen Derivatives of the Sulphonamides. Part ii.: Sulphondibromoamides and Sulphonalkylbromoamides: F. D. Chattaway.—Electrolytic Oxidation of Aliphatic Aldehydes: H. D. I. aw.—The Diazo-derivatives of the Benzenesulphonylphenylenediamines: G. T. Morgan and F. M. G. Micklethwait.—The Molecular Condition in Solution of Ferrous Potassium Oxalate: S. E. Sheppard and C. E. K. Mees.—The Formation of Magnesia from Magnesium Carbonate by Heat, and the Effect of Temperature on the Properties of the Product: W. C. Anderson.—Transformations of Derivatives of *s*-Tribromodiazobenzene: K. J. P. Orton.—The Addition of Sodium Bisulphite to Ketonic Compounds: A. W. Stewart.

ENTOMOLOGICAL SOCIETY, at 8.—Annual Meeting. Address by the President, Prof. E. B. Poulton, F.R.S.

GEOLOGICAL SOCIETY, at 8.—The Geology of Arenig Fawr and Moel Llyfnant: W. G. Fearnside.

SOCIETY OF ARTS, at 8.—Wireless Telegraphy and War Correspondence: Capt. Lionel James.

ROYAL MICROSCOPICAL SOCIETY, at 8.—What were the Carboniferous Ferns? the President's Annual Address.

ROYAL METEOROLOGICAL SOCIETY, at 7.40.—Annual General Meeting. Address on the Connection of Meteorology with other Sciences: the President, Capt. D. Wilson-Barker.

THURSDAY, JANUARY 19.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: On the "Blaze Currents" of the Gall Bladder of the Frog: Mrs. A. M. Waller.—The Dual Force of the Dividing Cell. Part i.: The Achromatic Spindle Figure illustrated by Magnetic Chains of Force: Prof. M. Hartog.—Note on the Effects produced on Rats by the Trypanosomata of Gambia Fever and Sleeping Sickness: H. G. Plimmer.—Further Histological Studies on the Localisation of Cerebral Function. The Brains of Felis, Canis and Sus compared with that of Homo: Dr. A. W. Campbell.

LINNEAN SOCIETY, at 8.—Botanical Collecting: Dr. A. Henry.—On the Cranial Osteology of the Families Osteoglossid  , Pantodontid  , and Phractol  mid  : Dr. W. G. Ridewood.

SOCIETY OF ARTS, at 4.30.—The Gates of Tibet: Douglas W. Freshfield.

FRIDAY, JANUARY 20.

ROYAL INSTITUTION, at 9.—New Low Temperature Phenomena: Sir J. Dewar, F.R.S.

EPIDEMIOLOGICAL SOCIETY, at 8.30.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Some Impressions of American Workshops: A. J. Gimson.—Waterworks Pumping Engines in the United States and Canada: J. Barr.—Some Features in the Design and Construction of American Planing Machines: A. Kenrick, Jun.—Engines at the Power Stations, and at the St. Louis Exhibition: A. Saxon.

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