inhibited; (4) stimulation of the vagus nerve does not inhibit the secretion due to secretin; (5) the pressure under which the fluid is secreted in the pancreatic duct is equivalent to 9 inches of the juice; (6) pancreatic juice may be activated by leucocytes so that it acts upon proteids.

DIARY OF SOCIETIES.

THURSDAY, MAY 11.

ROYAL SOCIETY, at 4, Election of Fellows.—At 4.30, On the Resemblances existing between the "Plimmer's Bodies" of Malignant Growths and certain Normal Constituents of Reproductive Cells of Animals: Prof. J. B. Farmer, F.R.S., J. E. S. Moore, and C. E. Walker.—The Effect of Plant Growth and of Manures upon the Soil: the retention of Bases by the Soil: A. D. Hall and Dr. N. H. J. Miller.—A Study of the Process of Nitrification with Reference to the Purification of Sewage; Miss H. Chick.—Pathological Report on the Histology of Sleeping Sickness and Trypanosomiasis; with a Comparison of the Changes found in Animals infected with T. gambiense and other Trypanosomiasis: Dr. A. Breinl.—(1) The Experimental Treatment of Trypanosomiasis in Animals; (2) Remarks on Mr. Plimmer's Note on the Effects produced in Rats by the Trypanosomata of Gambian Fever and Sleeping Sickness: Dr. H. Wolferstan Thomas. Wolferstan Thomas.

Wolferstan Inomas.

ROYAL Institution, at 5.—Flame: Sir James Dewar, F.R.S.

SOCIETY OF ARTS, at 4.30.—The Manufactures of Greater Britain. III.

India: H. J. Tozer.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Telephone Traffic:

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Telephone Traint. H. L. Webb.

SOCIOLOGICAL SOCIETY, at 8.15.—Some Guiding Principles in the Philosophy of History: Dr. J. H. Bridges.

MATHEMATICAL SOCIETY, at 5.30.—On the Intersections of two Conic Sections: J. A. H. Johnston.—On a System of Conics yielding Operators which Annihilate a Cubic and its Bearing on the Reduction of the Cubic to the Sum of four Cubes: H. G. Dawson.—High Pellian Factorisations: Lt.-Col. A. Cunningham.

FRIDAY, MAY 12.

ROYAL INSTITUTION, at 9.—The Pressure due to Radiation: Prof. E. F. Nichols.

ROYAL INSTITUTION, at 9.—The Pressure due to Radiation: Prof. E. F. Nichols.

Nichols.

Physical Society, at 8.—A Simple Method of Determining the Radiation Constant; suitable for a Laboratory Experiment: Dr. A. D. Denning.—A Bolometer for the Absolute Measurement of Radiation: Prof. H. L. Callendar, F.R.S.—The Resistance of a Conductor the Measure of the Current flowing through it: W. A. Price.

Malacological Society, at 8.—Note on Helix pellita, Fér., and other Shells from the Pleistocene Cave-deposits of East Crete: Rev. R. Ashington Bullen.—Notes on Recent Spanish Shells from Granada and Carm ma. Rev. R. Ashington Bullen.—Description of a new Species of Vitrea from Greece: E. A. Smith.—Descriptions of new Forms of Marginellidæ and Pleuretomidæ: E. R. Sykes.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Discussion of the Observations of the Satellite of Neptune made at the Royal Observatory, Greenwich, in the years 1902–3-4: F. W. Dyson and D. J. R. Edney.—Further Note on the Density and Prolateness of Close Binary Stars: A. W. Roberts.—On Hansen's Coefficients for the Inequalities in the Moon's Longitude: E. Nevill.—A Supposed Instance of Sudden Change on Jupiter: Major P. B. Molesworth.—Optical Distortion of the Object Glass of the Astrongraphic Telescope, deduced from Measures of the Eros Photographs, Communicated by the Astronomer Royal: Royal Observatory, Greenwich.—Promised Papers: On the Formula for Connecting Photographic Diameters with Stellar Magnitudes: H. H. Turner.—The Determination of Stellar Proper Motions without Reference to Meridian Observations: A. R. Hinks.—Notes on the Use of Thorp Gratings for Eclipse Work: Dr. W. J. S. Lockyer. A. R. Hinks.—Notes of Dr. W. J. S. Lockyer.

SATURDAY, MAY 13.

ROVAL INSTITUTION, at 3.—Moulds and Mouldiness: Prof. Marshall Ward, F.R.S. MONDAY, MAY 15.

SOCIETY OF ARTS, at 8.—The Uses of Electricity in Mines: H. W.

Ravenshaw.

Royal Ghographical Society, at 8.30.—Exploration and Survey in Central Tibet and to the Sources of the Brahmaputra: Captain C. H. D. Ryder.

VICTORIA INSTITUTE, at 4.30.—The Messiah of Quadian: The Rev. Dr. Griswold.

TUESDAY, MAY 16.

ROYAL INSTITUTION, at 5.-The Study of Extinct Animals: Prof. L. C.

ROYAL INSTITUTION, at 5.—The Study of Extinct Animals: Prof. L. C. Miall, F.R.S.
ROYAL STATISTICAL SOCIETY, at 5.
ZOOLOGICAL SOCIETY, at 8.30.—A Contribution to the Knowledge of the Encephalic Arterial System in Sauropsida: F. E. Beddard.—On Stridulating Halyinæ with Descriptions of New Genera and Species: Dr. E. Bergroth.—On the Classification of the Anthropoid Apes as Proposed by the Hon. Walter Rothschild: Sir Harry Johnston.
SOCIETY OF ARTS, at 8.—Excavation of the Oldest Temple at Thebes: H. R. Hall.

WEDNESDAY, MAY 17.

WEDNESDAY, MAY 17.

SOCIETY OF ARTS, at 8.-The Use of Wood Pulp for Paper Making:

S. Charles Phillips.

ROYAL MICROSCOPICAL SOCIETY, at 8.—The Movements of Diatoms and other Microscopic Plants: D. D. Jackson.—Exhibition of Slides of the Oribatidæ.

the Oribatidæ.

ROYAL METEOROLOGICAL SOCIETY, at 4.30.—Measurement of Evaporation; R. Strachan.—Logarithmic Slide-Rule for reducing Readings of the Barometer to Sea-level: Dr. J. Ball.

CHEMICAL SOCIETY, at 5.30.—The Chlorination of Methyl Derivatives of Pyridine. Part I. 2-Methyl Pyridine: W. J. Sell.—The Absorption

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Spectra of Uric Acid, Murexide and the Ureides in Relation to Colour and to their Chemical Structure: W. N. Hartley,—Further Studies on Dihydroxymaleic Acid: H. J. H. Fenton.—The Thermal Decomposition of F. rmaldehyde and Acetaldehyde: W. A. Bone and H. L. Smith.—The Synthesis of Formaldehyde: D. L. Chapman and A. Holt, Jun.—The Influence of Light on Diazo-reactions. Preliminary Notice: K. J. P. Orton, J. E. Coates, and (in part) F. Burdett.

THURSDAY, MAY 18.

THURSDAY, MAY 18

ROYAL SOCIETY, at 4.30.—Probable Papers: On Lesage's Theory of Gravitation and the Repulsion of Light: Prof. G. H. Darwin, F.R.S.—The Atomic Weight of Chlorine; an Attempt to Determine the Equivalent of Chlorine by burning with Hydrogen: Prof. H. B. Dixon, F.R.S., and E. C. Edgar.—The Flow of the River Thames in Relation to British Pressure and Rainfall: Sir Norman Lockyer, K.C.B., F.R.S., and Dr. W. J. S. Lockyer.—Thorianite, a New Mineral, from Ceylon: Prof. W. R. Dunstan, F.R.S., and G. S. Blake.—The Elastic Properties of Steel at High Temperatures: Prof. B. Hopkinson and F. Rogers.—Modified Apparatus for the Measurement of Colour, and its Application to the Determination of the Colour Sensations: Sir William de W. Abney, K.C.B., F.R.S. - Further/Observations on the Germination of the Seed of the Castor Oil Plant (Ricinus communis): Prof. J. Reynolds Green, F.R.S., and H. Jackson.—On the Efferent Relationship of the Optic Thalamus and Deiter's Nucleus to the Spinal Cord. with Special Reference to the Cerebellar Influx Theory (Hüghlings Jackson) and the Genesis of Decerebrate Rigidity (Sherrington): Dr. F. H. Thiele.—On Reciprocal Innervation of Antagonistic Muscles. Eighth Note: Prof. C. S. Sherrington, F.R.S.—The Structure and Function of Nerve Fibres: Prof. J. S. Macdonald.—On the Occurrence of Anopheles (Myzomyia Listoni in Calcutta: Major A. Alcock, C.I.E., F.R.S., and Major J. R. Adie.

Adde.
ROYAL INSTITUTION, at 5.—Flame: Sir James Dewar, F.R.S.
SOCIBTY OF ARTS, at 4 30.—Plague in India: Dr. C. Creighton.
FARADAY SOCIETY, at 8.—An Application to Electrolytes of the Hydrate
Theory of Solutions: T. M. Lowry.

FRIDAY, MAY 19.

ROYAL INSTITUTION, at 9.—The Native Races of the British East Africa Protectorate: Sir Charles Eliot, K.C.M.G.
EPIDEMIOLOGICAL SOCIETY, at 8.30.

SATURDAY, MAY 29.

ROYAL INSTITUTION, at 3.—The Evolution of the Kingship in Early Society: Dr. J. G. Frazer.

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