

greatly on the nature of the coagulant employed, there being a distinct relation between the fineness of the reticular structure of the clot and the elastic properties.—The presence of phenylethyl alcohol in the essence from the needles of the Aleppo pine of Algeria: Emilian **Grimal**. Details are given of the method of extraction and identification of the phenylethyl alcohol.—The successive distributions of terpenic compounds in various organs of the living plant: Eug. **Charabot** and G. **Laloue**.—Fluorine in the shells of molluscs: P. **Carles**. The presence of fluorine in the mollusc shells is proved: if the shell is treated with hydrochloric acid, the presence of fluorine may be easily overlooked, since hydrofluoric acid is carried away with the carbon dioxide.—A new genus of Pennatulidae: Ch. **Gravier**.—*Giardia alata*, a new species: J. **Kunster** and Ch. **Gineste**.—Some physico-biological conditions of Lake Mélah, Algeria: J. **Bounhiol**.—The toxic effects of oysters: J. **Baylac**. Apart from the possibility of bacterial infection, the fluid of the oyster itself possesses toxic effects, and these are greatly increased by keeping at a temperature of about 16° C. for two or three days. The author is of opinion that many accidents attributed to the bacterial contamination of oysters are really due to the increase in the toxic power of the natural fluids of the oyster under the influence of temperature.—Do elephants possess a pleural cavity? Mme. Marie **Phisalix**. A reply to a recent note of M. Giard.—New researches on the transplantation of nerve ganglia; transplantation in the frog: G. **Marinesco** and J. **Minea**. In cold-blooded animals, the transplanted ganglion cells live for a much longer time after transplantation, and react and repair their lesions more readily than the ganglion cells of animals at constant temperature.—The distribution of microbial secretions, in a culture, between the liquid of this culture and the micro-organisms. Free toxins and adherent toxins. Extracellular bodies and intra-cellular bodies: MM. **Charrin** and **Goupil**.—A remarkable case of an aneurism of the ophthalmic artery cured by gelatin: MM. **Lancereaux** and **Paulesco**. In the treatment of aneurisms of the aorta by gelatin injection the improvement, although marked, proves to be only temporary, and the effect of each injection is less than that of the one preceding, no permanent effect being produced. In the case described the cure was complete and permanent after thirty-nine injections.

DIARY OF SOCIETIES.

THURSDAY, MARCH 7.

ROYAL SOCIETY, at 4.30.—Experiments with Vacuum Gold-Leaf Electroscopes on the Mechanical Temperature Effects in Rarefied Gases: Dr. J. T. Rottomley, F.R.S., and F. A. King.—On the Resistance of Air: A. Mallock, F.R.S.—Electric Furnace Reactions under High Gaseous Pressures: R. S. Hutton and J. E. Petavel.—On the Absorption of Water by Cotton and Wool: Dr. M. W. Travers, F.R.S.

CHEMICAL SOCIETY, at 8.30.—The Constitution of Chaulmoogric and Hydrocarpic Acids: M. Barrowcliff and F. R. Power.—Volume Changes which accompany Transformations in the System $\text{Na}_2\text{S}_2\text{O}_3$, H_2O : H. M. Dawson and C. G. Jackson.

AERONAUTICAL SOCIETY, at 8.—Wings *v.* Screws: Colonel J. D. Fullerton, R.E.—The Free Lever in the Flying Machine: Herr Karl Milla.—Theory of Sailing Flight: José Weiss.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Transmission of Electrical Energy by Direct Current on the Series System: J. S. Highfield.

LINNEAN SOCIETY, at 8.—On the Development of the Frog: Miss N. F. Lazard.—Biscayan Plankton, Decapoda: S. B. Kemp.—A Special Point in the Colour Adjustment of Chamæleon: Prof. E. B. Poulton, F.R.S.—New Channel Island Plants: G. Claridge Druce.—*Exhibitions*: Specimens of *Nitella ornithopoda*, A.Br.: H. and J. Groves.—(1) Probate of the Will of Richard Anthony Salisbury; (2) Manuscripts of Dr. W. J. Burchell: Prof. E. B. Poulton, F.R.S.

CIVIL AND MECHANICAL ENGINEERS' SOCIETY, at 8.—Types of Enclosed Steam Water Heaters: C. R. Allensby.

FRIDAY, MARCH 8.

ROYAL INSTITUTION, at 9.—Certain Seasonal Diseases of the Sheep, and the Means of Preventing Them: Prof. D. J. Hamilton.

PHYSICAL SOCIETY, at 8.—The Rate of Recovery of Residual Charge in Electric Condensers: Prof. Trouton and Mr. Russ.—Experimental Mathematics: Mr. Pichon.—An Instrument to describe Families of Equiangular Spirals: Mr. Blakesley.—A Micromanometer: Mr. Roberts.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Corrugations on Tram-Rails: A. T. Arnall.

MALACOLOGICAL SOCIETY, at 8.—On the Non-Marine Mollusca of the Mylne Collection: A. S. Kennard and B. B. Woodward.—Notes on Holocene Mollusca from Ightham: A. S. Kennard and B. B. Woodward.—Descriptions of Four New Species of Melania from New Ireland and Ke-lan-tan: H. B. Preston.—On the Arms of the Belemnite: G. C. Crick.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Computation of Secular Perturbations: R. T. A. Innes.—Observations of Occultations: Rev. A. L. Williams.—Baxendell's Observations of U Geminorum: Edited by H. H. Turner.—On the Classification of Long-period Variable Stars, and a Possible Physical Interpretation: H. H. Turner.—Perturbations of Halley's Comet: P. H. Cowell and A. C. D. Crommelin.

SATURDAY, MARCH 9.

ROYAL INSTITUTION, at 3.—Röntgen, Kathode, and Positive Rays: Prof. J. J. Thomson, F.R.S.

MONDAY, MARCH 11.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Journeys in Turkey-in-Asia: Mark Sykes.

TUESDAY, MARCH 12.

ROYAL INSTITUTION, at 3.—The Visual Apparatus of Man and Animals: Prof. William Stirling.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Construction of Overhead Electric Transmission-lines: A. P. Trotter.

WEDNESDAY, MARCH 13.

SOCIETY OF ARTS, at 8.—Mediæval Stained Glass, its Production and Decay: Noel Heaton.

GEOLOGICAL SOCIETY, at 8.—A Silurian Inlier in the Eastern Mendips: Prof. Sidney H. Reynolds.—On Changes of Physical Constants which take place in certain Minerals and Igneous Rocks, on the Passage from the Crystalline to the Glassy State; with a short Note on Eutectic Mixtures: J. A. Douglas.

THURSDAY, MARCH 14.

ROYAL SOCIETY, at 4.30.—*Probable Papers* 5.—On the Gravitational Stability of the Earth: Prof. A. E. H. Love, F.R.S.—The Total Ionisation of Various Gases by the α Rays of Uranium: T. H. Laby.—On the Ionisation of Various Gases by the α , β and γ Rays: R. D. Kleeman.

ROYAL INSTITUTION, at 3.—Biology and Progress: Dr. C. W. Sateby.

SOCIETY OF ARTS, at 4.30.—The City of Madras: Sir James Thomson.

MATHEMATICAL SOCIETY, at 5.30.—Exhibition of a New Calculating Machine: G. W. Evans-Cross.—On the Reduction of the Factorisation of Binary Septans and Octans to the Solution of Indeterminate Equations of the Second Degree: Dr. T. Stuart.—Invariants of the General Quadratic Form *Modulo* 2: Prof. L. E. Dickson.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—*Adjourned discussion*: The Transmission of Electrical Energy by Direct Current on the Series System: J. S. Highfield.

CONTENTS.

PAGE

Sir Charles Bunbury. By F. D.	433
Haileybury Natural History Lectures. By R. L.	434
Medical Inspection of School Children. By C. S. M.	435
Elementary Physics	436
Our Book Shelf:—	
Cornish: "Animal Artizans and other Studies of Birds and Beasts."—R. L.	437
"Rubber in the East."—L. C. B.	437
Popplewell: "Some Modern Conditions and Recent Developments in Iron and Steel Production in America"	438
Letters to the Editor:—	
The Positive Charge carried by the α Particle.—Frederick Soddy	438
The Rusting of Iron.—Dr. G. T. Moody	438
The Valparaiso Earthquake, August 17, 1906.—R. D. Oldham	439
Nomenclature of the Proteins.—W. S. Gilles	439
Maximum Gravitational Attraction on a Solid.—W. E. Miller; Prof. G. H. Bryan, F.R.S.	439
A New Chemical Test for Strength in Wheat Flour.—Dr. E. Frankland Armstrong	439
A Remarkable Lunar Halo, February 24.—H. F. Hunt	439
A Practical Handbook of Burma. (<i>Illustrated</i> .)	440
Prof. Marcel Bertrand. By M. M. Allorge	441
H. C. Russell, C.M.G., F.R.S. By W. E. P.	442
Dr. Allan Macfadyen. By R. T. H.	443
Notes	443
Our Astronomical Column:—	
Perturbations of Halley's Comet	447
Stars having Peculiar Spectra	448
Simultaneous Disparition of Jupiter's Four Satellites	448
Photographs of Faint Stars	448
Model to Illustrate Effects of the Earth's Rotation	448
Prominence Observations (1906)	448
Meteorological Observations. (<i>Illustrated</i> .)	448
Vox Populi. (<i>With Diagram</i> .) By Dr. Francis Galton, F.R.S.	450
The Work of the Optical Society	451
The Compressibility of Crystalline Rocks. By A. H. Cyanogenesis in Plants and the Constitution of Phaseolunatin	452
University and Educational Intelligence	453
Societies and Academies	454
Diary of Societies	456