

losis in man. The author has studied this skin reaction with animals with results generally confirming those of Von Pirket. In healthy animals (cattle, horses, guinea-pigs) no appreciable skin reaction is produced; with tuberculous animals, on the other hand, the skin reaction is well marked.

DIARY OF SOCIETIES.

THURSDAY, JUNE 13.

ROYAL SOCIETY, at 4.30.—Some Points in the Development of *Ophiotrix fragilis*: Prof. E. W. MacBride, F.R.S.—On Certain Phenomena of Inactivation and of Inhibition exhibited by Precipitin Antisera: D. A. Welsh and H. G. Chapman.—The Inhibitory Action upon Subsequent Phagocytosis exerted on Active Normal Serum by Inactive Normal Serum through which bacilli have been passed: J. C. G. Ledingham.—*Miadesmia membranacea*, Bertrand; a New Palaeozoic Lycopod with a Seed-like Structure: Miss M. Benson.—On the Identification of Chitin by its Physical Constants: Miss I. Sollas.

CHEMICAL SOCIETY (Extra Meeting), at 8.30.—Discourse entitled Some Borderline Problems in Botany: Prof. J. B. Farmer, F.R.S.

MATHEMATICAL SOCIETY, at 5.30.—On Partial Differential Equations of the Second Order: Prof. A. R. Forsyth.

INSTITUTION OF MINING ENGINEERS, at 11 a.m.—Improvements required in Inland Navigation: H. R. de Salis.—Bye-product Coking Plant at Clay Cross: W. B. M. Jackson.—Notes on Bye-product Coke-ovens, with Special Reference to the Koppers Oven: A. V. Kochs.—Bye-product Coke-ovens: P. Schwarz.—Water Supplies by Means of Artesian-bored Tube-wells: H. F. Broadhurst.—Gypsum in Sussex: W. J. Kemp and G. A. Lewis.—The Use of Duplicate Capell Fans: G. M. Capell.

MATHEMATICAL SOCIETY, at 5.30.—Note on a Special Set of Classes of Partial Differential Equations of the Second Order: Prof. A. R. Forsyth.—Various Extensions of Abel's Lemma: Prof. T. J. I'A. Bromwich.—On the Number of Representations of a Number as a Sum of  $2r$  Squares, where  $2r$  does not exceed  $18$ : Dr. J. W. L. Glaisher.—An Extension of Eisenstein's Law of Reciprocity: Mr. A. E. Western.—On Certain Singular Points of Surfaces: Mr. A. B. Basset.—The Minimum Necessary Postulates as to a Function to be Defined as Analytic over a Region: Prof. E. B. Elliott.

FRIDAY, JUNE 14.

ROYAL INSTITUTION, at 9.

ROYAL ASTRONOMICAL SOCIETY, at 5.—(1) Note on the Colours of  $\alpha$  and  $\sigma$  Ceti; (2) The Relation between Star Colours and Spectra: W. S. Franks.—On the "Owl Nebula," M 97, N.G.C. 3587: E. E. Barnard.—Ancient Eclipses: P. H. Cowell.—Note on the Visual Spectrum of Mira Ce i in December, 1906: Rev. A. L. Corrie.—The Spectrum of Mira Ceti in December, 1906, as Photographed at Stonyhurst College Observatory: Rev. W. Sidgreaves.—Observations of Comets  $d, e, g, 1906$ , from Photographs taken with the 30-inch Reflector of the Thompson Equatorial: Royal Observatory, Greenwich.—*Probable Papers*: Observations of Jupiter: Rev. T. E. R. Phillips.—Description of an Equatorial Reflecting Telescope driven by a Hydraulic Ram: T. E. Heath.—The Work of the Mount Wilson Observatory: Prof. G. E. Hale.

PHYSICAL SOCIETY, at 8.—Observations on the Electric Arc: W. L. Upson.—The Poulsen Arc as a Means of Producing Electrical Oscillations (with Experiments): Dr. J. A. Fleming.—Exhibition of a Direct Reading Conductivity Bridge for Rods: R. Appleyard.

INSTITUTION OF MINING ENGINEERS, at 10.30 a.m.—The Reform of British Weights and Measures: A. Hopkinson.—The Thick Coal of Warwickshire: J. T. Browne.—Description of the Ozokerite (Mineral Wax) Mine at Boryslaw, Galicia, Austria: D. M. Chambers.—Notes on the Structural Geology of South Africa: Dr. C. Sandberg.—The New Rand Gold-field, Orange River Colony: A. R. Sawyer.—Cast-iron Tubbing: What is the Rational Formula? H. W. G. Halbaum.

MONDAY, JUNE 17.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—In the Equatorial Forests of Africa: Major P. H. G. Powell-Cotton.

TUESDAY, JUNE 18.

ROYAL STATISTICAL SOCIETY, at 5.

ZOOLOGICAL SOCIETY, at 8.30.—On Growth-forms and supposed Species in Corals (illustrated by Lantern Slides): Dr. F. W. Jones.—Notes on Limnocoelids from Lakes Tanganyika and Victoria Nyanza: R. T. Günther.—On *Lacerta ionica*, Lehrs, a Variety of *Lacerta taurica*, Pallas: G. A. Boulenger, F.R.S.—On Neotropical Lycanidae, with Descriptions of New Species: Hamilton H. Druce.—Descriptions of *Vesifer hypolepterus* and a New Fish of the Genus *Vesifer*: C. Tate Regan.—On the Anatomy, Classification, and Systematic Position of the Teleostean Fishes of the Sub-order Halotriognathi: C. Tate Regan.—A Monographic Revision of the Monkeys of the Genus *Cercopithecus*: R. I. Pocock.—Notes upon some African Species of the Genus *Felis* recently exhibited in the Zoological Gardens: R. I. Pocock.

WEDNESDAY, JUNE 19.

GEOLOGICAL SOCIETY, at 8.—The Constitution of the Interior of the Earth as revealed by Earthquakes (Second Communication): Some New Light on the Origin of the Oceans: R. D. Oldham.—(1) The Swansea Earthquake of June 27, 1906; (2) The Oculi Earthquakes of September, 1900, to April, 1907: Dr. C. Davison.—(1) The Inferior Oolite and Contiguous Deposits of the Bath-Douling District; (2) The Inferior Oolite and Contiguous Deposits of the District between the Rissingtons and Burford: L. Richard-on.—The Flora of the Inferior Oolite of Brora (Sutherland): Dr. M. C. Stopes.

ROYAL METEOROLOGICAL SOCIETY, at 4.30.—Weather and Crops, 1891-1906: F. C. Bayard.—The Relation of the Rainfall to the Depth of Water in a Well at Cirencester, 1903-1906: C. P. Hooker.—*Exhibit*: The "Step" Anemometer, an Instrument designed to obviate the "Sheltering" Error: W. Child.]

ROYAL MICROSCOPICAL SOCIETY, at 8.—Eye-pieces for the Microscope: E. M. Nelson.—Lecture, illustrated by Lantern-slides, on the Life-history of the Tiger Beetle, *Cicindela campestris*: F. Enoch.

THURSDAY, JUNE 20.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Bakerian Lecture, On the Atomic Weight of Radium: Dr. T. E. Thorpe, C.B., F.R.S.—On the Origin of the Gases Evolved by Mineral Springs: Hon. R. J. Strutt, F.R.S.—On the Presence of Sulphur in Some of the Hotter Stars: Sir J. Norman Lockyer, K.C.B., F.R.S.—The Fluted Spectrum of Titanium Oxide: A. Fowler.—Preliminary Note on a New Method of Measuring Directly Double Refraction in Strained Glass: L. N. G. Filon.—Studies of the Processes Operative in Solutions, II., The Displacement of Chlorides from Solution by Alcohol and by Hydrogen Chloride: Prof. H. E. Armstrong, F.R.S., E. V. Evre, and A. V. Hussey; III. The Sacroclastic Action of Nitric Acid as Influenced by Nitrates: R. Whymer; IV. The Hydrolysis of Methyl Acetate in Presence of Salts: Prof. H. E. Armstrong and J. A. Watson; V. The Discrimination of Hydrates in Solution: Prof. H. E. Armstrong, F.R.S., and R. J. Caldwell.

CHEMICAL SOCIETY, at 8.30.—Some Properties of Radium Emanation: A. T. Cameron and Sir W. Ramsay.—The Affinity Constants of Amino-sulphonic Acids as Determined by the Aid of Methyl Orange: V. H. Veley.—Azo-derivatives of 1:3-Diphenylbarbituric Acid. Dynamic Isomerism among the Coloured Hydrzones of 1:3-Diphenylalloxan: M. A. Whiteley.—A Series of Coloured Diazo-salts Derived from  $p$ -Amino-aceto- $n$ -naphthalide: G. T. Morgan and W. O. Wootton.—(1) Colour and Constitution of Azo-compounds, Part I.; (2) Colour and Constitution of Azo-compounds, Part II.: J. T. Hewitt and H. V. Mitchell.—The Oxidation of Hydrazines by Free Oxygen: F. D. Chattaway.—Calmatambin, a new Glucoside: F. L. Pyman.—The Decomposition of Hyponitrous Acid in Presence of Mineral Acids: P. C. Réay and A. C. Ganguli.—The Chemical Composition of Petroleum from Borneo: H. O. Jones and H. A. Wootton.—(1) The Synthesis of Phenonaphthacridines. Trimethylphenonaphthacridines; (2) The Condensation of Aldehydes with Mixtures of  $\alpha$ -Naphthol and  $\alpha$ -Naphthylamine; Synthesis of 7-Aryl  $\beta$ -Naphthacridines: A. Senier and P. C. Austin.—(1) An Improved Form of Apparatus for the Rapid Estimation of Sulphates and Salts of Barium; (2) The Determination of Sugar by Fehling's Solution: W. R. Lang and T. B. Allen.

LINNEAN SOCIETY, at 8.—Distribution of Conifers of China: Dr. Maxwell T. Masters, F.R.S.—Pre-glacial Flora of Great Britain: Clement Reid, F.R.S., and Mrs. Reid.—Cruise of H.M.S. *Sealark*, Part II.: Dr. J. Stanley Gardiner.—On Tubucellaria: A. W. Waters.—Cruise of the *Silver Belle*: Dr. N. Wolfenden.—Triassic Species of *Zamiko* and *Pterophyllum*: E. A. N. Arber.

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