

agents, and is not characteristic of nitric acid.—On the antiseptic properties of certain kinds of smoke and on their utilisation: A. **Trillat**. In previous papers the author has shown that formaldehyde is a constant constituent of chimney smoke. He now finds that a polymerised formaldehyde is always present in soot, in proportions varying from 0.28 per cent. to 0.34 per cent.—The effects of phosphorus on the coagulation of the blood. The origin of fibrinogen: M. **Doyon**, A. **Morel**, and N. **Kareff**.—The duration of the process of stimulation for different muscles: M. and Madame L. **Lapicque**.—On the anatomical and functional independence of the lobes of the liver: H. **Sérége**. The arguments from the anatomical and physiological points of view are summarised and shown to be all in favour of the independence of the lobes.—An experimental study of the relations between the arterial pressure and the pulmonary circulation in anæsthesia by chloroform. The determining cause of chloroform accidents: J. **Tissot**.—On the measurement of disposable energy by a self-registering integrating dynamometer: Charles **Henry**. The apparatus consists essentially of a rubber ball filled with mercury. The pressure of the hand on this raises a mass of iron up and down a graduated tube, this iron being connected with the registering apparatus. The area registered measures the static work done by the pressure of the fingers.—The cardiac area in cured consumptive cases: H. **Guilleminot**.

DIARY OF SOCIETIES.

THURSDAY, MARCH 30.

ROYAL SOCIETY, at 4.30.—On the Observations on Stars made in some British Stone Circles (Preliminary Note): Sir Norman Lockyer, K.C.B., F.R.S.—On the Distribution of Velocity in a Viscous Fluid over the Cross-section of a Pipe, and on the Action at the Critical Velocity: J. Morrow.—The Direct Synthesis of Ammonia: Dr. E. P. Perman.—The Determination of Vapour Pressure by Air Bubbling: Dr. E. P. Perman and J. H. Davies.—Note on Fluorescence and Absorption: J. B. Burke.—The Determination of the Specific Heat of Superheated Steam by Throttling and other Experiments: A. H. Peake.—The Role of Diffusion in the Catalysis of Hydrogen Peroxide by Colloidal Platinum; G. Senter.—The Theory of Photographic Processes. Part II. On the Chemical Dynamics of Development, including the Microscopy of the Image: S. E. Sheppard and C. E. K. Mees.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.

FRIDAY, MARCH 31.

ROYAL INSTITUTION, at 9.—The Scientific Study of Dialects: Prof. J. Wright.

SATURDAY, APRIL 1.

ROYAL INSTITUTION, at 3.—Some Controverted Questions of Optics: Lord Rayleigh.

MONDAY, APRIL 3.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—On the Formation of Sulphuric Esters in the Nitration of Cellulose and their Influence on Stability: C. Napier Hake and R. J. Lewis.—The Proof of Percussion Caps: H. W. Brownson.

SOCIETY OF ARTS, at 8.—Telephony: H. L. Webb.

VICTORIA INSTITUTE, at 4.30.

TUESDAY, APRIL 4.

ROYAL INSTITUTION, at 5.—Tibet: Perceval Landon.
FARADAY SOCIETY, at 8.—Alloys of Copper and Antimony and Copper and Bismuth: A. H. Hiorns.—Refractory Materials for Furnace Linings: E. Kilburn Scott.—Electrically Heated Carbon Tube Furnaces. Part I.: R. S. Hutton and W. H. Patterson.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Continued Discussion: Coolgardie Water-Supply: C. S. R. Palmer.

WEDNESDAY, APRIL 5.

GEOLOGICAL SOCIETY, at 8.—On the Divisions and Correlations of the Upper Portion of the Coal-measures, with Special Reference to their Development in the Midland Counties of England: R. Kidston, F.R.S.—On the Age and Relations of the Phosphatic Chalk of Taplow: L. Treacher and H. J. O. White.

ENTOMOLOGICAL SOCIETY, at 8.

SOCIETY OF PUBLIC ANALYSTS, at 8.—The Determination of Higher Alcohols in Spirits. I.: Dr. Philip Schidrowitz and F. Kaye.—The Action of slightly Alkaline Waters on Iron: C. H. Cribb and F. W. F. Arnaud.—Notes on Preservatives: E. G. Clayton.

SOCIETY OF ARTS, at 8.—Ancient Architecture of the Great Zimbabwe: R. N. Hall.

THURSDAY, APRIL 6.

ROYAL SOCIETY, at 4.30.—Probable Papers: On Reciprocal Innervation of Antagonistic Muscles, Seventh Note: Prof. C. S. Sherrington, F.R.S.—The Influence of Cobra-Venom on the Proteid Metabolism: Dr. James Scott.—Further Experiments and Histological Investigations, on Intumescentes, with some Observations on Nuclear Division in Pathological Tissues: Miss E. Dale.—On the Toxin-Antitoxin Reaction, with Special Reference to the Neutralisation of Lysin by Antilysin: J. A. Craw.—On the Nature of the Silver Reaction in Animal and Vegetable Tissues: Prof. A. B. Macallum.

CHEMICAL SOCIETY, at 8.—The Basic Properties of Oxygen at Low Temperatures. Additive Compounds of the Halogens with Organic Substances containing Oxygen: D. McIntosh.—Note on the Interaction of Metallic Cyanides and Organic Halides: N. V. Sidgwick.—The Chemical Dynamics of the Reactions between Sodium Thiosulphate and Organic Halogen Compounds. Part II. Halogen-substituted Acetates: A. Slator.—The Chemical Kinetics of Reactions with inverse Reactions. The Decomposition of Dimethylcarbamide: C. E. Fawcitt.—The Tautomerism of Acetyl Thiocyanate: A. E. Dixon and J. Hawthorne.—A Method of Determining the Specific Gravity of Soluble Salts by Displacement in their own Mother Liquor, and its Application in the Case of the Alkaline Halides: J. Y. Buchanan.—The Combination of Mercaptans with Unsaturated Ketonic Compounds: S. Ruhemann.—A new Formation of Acetylcamphor: M. O. Forster and Miss H. M. Judd.—Preparation and Properties of 1:4:5-Trimethylglyoxaline: H. A. D. Jowett.—Bromomethylheptylketone: H. A. D. Jowett.—On the Existence of a Carbide of Magnesium: J. T. Nance.—The Action of Carbon Monoxide on Ammonia: H. Jackson and D. N. Laurie.—Isomeric Salts of the Type $NR_1R_2H_3$. A Correction. Isomeric Forms of α -Bromo- and α -Chloro-camphorsulphonic Acids: F. S. Kipping.—Isomerism of α -Bromo- and α -Chloro-camphor: F. S. Kipping.—*l*-Phenylethylamine: F. S. Kipping and A. E. Hunter.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Discussion of the Report to Council on the International Electrical Congress at St. Louis, by W. Duddell, and of Papers on Systems of Electric Units Published in Part clxx. (last issue) of the *Journal*.

ROYAL INSTITUTION, at 5.—Synthetic Chemistry: Prof. R. Meldola, F.R.S.

RÖNTGEN SOCIETY, at 8.15.—Exhibition Evening.

LINNEAN SOCIETY, at 8.—Intra-axillary Scales of Aquatic Monocotyledons: Prof. R. J. Harvey Gibson.—A further Communication on the Study of *Pelomyxa palustris*: Mrs. Veley.

SOCIETY OF ARTS, at 4.30.—The Prospects of the Shan States: Sir J. George Scott.

FRIDAY, APRIL 7.

ROYAL INSTITUTION, at 9.—American Industry: Alfred Mosely.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Cofferdams for Dock Use: R. G. Clark.—Bath Corporation Waterworks Extension: J. R. Fox.

SATURDAY, APRIL 8.

ROYAL INSTITUTION, at 3.—Some Controverted Questions of Optics: Lord Rayleigh.

THE ESSEX FIELD CLUB, at 6.30. (At Essex Museum of Natural History, Stratford).—Twenty-fifth Annual Meeting.—Natural History Museums: F. W. Rudler.

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