

ACADEMIES AND SOCIETIES.

Indian Academy of Sciences:

February 1937. SECTION A.—M. A. WALI AND M. C. TUMMIN KATTI: *Chemical Examination of the Constituents of Hydrocotyle asiatica.—Part I.* G. S. KASBEKAR AND A. R. NORMAND: *Reaction between Nitric Acid and Tin in Presence of Catalysts—Part I.*—The retarding effect of reagents like FeSO_4 , NaNO_2 , etc., and the accelerating effect of others like H_2SO_4 and TiCl_3 are studied. A. BAI ANKESWARA RAO: *Maxwell Effect in Some Organic Liquids.*—The experimental results of Sadron are re-checked against a corrected formula of Raman and Krishnan, and it is concluded that there is a general agreement excepting where complications due to association arise. K. SUBBA RAMAIAH: *Studies in Colloid Optics—I. Scattering of Light by Protein Solutions.*—Simultaneous measurements have been made of the depolarisation—with incident beam unpolarised, horizontally polarised and vertically polarised—and the intensity of light scattered by solutions of gelatin, casein and albumin, at various pH values. It is found that the intensity is a maximum and the depolarisation minimum at the iso-electric point. K. SUBBA RAMAIAH: *Studies in Colloid Optics—II. Scattering of Light by Silica Acid Sols and Gels.*—There is a continuous fall of ρ_h with time during gel formation indicating a continuous growth in micellar size, even after gel formation is complete. ρ_v and ρ_u both pass through a minimum in slow setting and rapid setting systems, the minimum value being extremely small in the former case. N. JAYARAMAN: *The Mineralogy and Chemical Composition of Garnets from the Schist-Complex of Nellore.*—The variation in colour and other physical properties in the specimens are traceable to inclusions of quartz and ilmenite. Acicular inclusions of sillimanite have also been observed. V. SEETHARAMAN: *Differential Invariants for Path Spaces of Order 2.* P. NILAKANTAN: *X-Ray Studies of Wood, Lignin, and Wood-Cellulose.*—Proceeding from the most compact towards the least compact layer in the annual ring of teakwood there is a progressive disorientation of micelles in the fibre. Wood-structure near the region of knots and structural differences along tangential and radial directions have also been investigated. R. ANANTHAKRISHNAN: *The Raman Spectra of Crystal Powders. III.—Exchange Reactions: NH_4Cl and D_2O .*—The complete Raman spectrum of ND_4Cl is reported and compared with that of NH_4Cl . There is no evidence for HDO in the spectrum of water recovered from the exchange reaction photographed directly or as water of crystallisation in strontium chloride.

M. A. GOVINDA RAU AND N. ANANTHANARAYANAN: *The Dipole Moment and Structure of Some Cyclic Anhydrides: Phthalic, Succinic and Citraconic Anhydrides.*—The moments are interpreted as due to a strong resonance structure which reverses the normal direction of moment to be expected from vectorial addition.

February 1937.—SECTION B.—MAKUND BEHARI LAL: *Studies on the Trematode Parasites of Birds.*—A critical survey of factors governing the classification of avian trematodes with a view to remove, as far as possible, the existing confusion regarding the merits of different characters. S. A. AKHTAR: *Chabertia Rishati N. Sp. A New Nematode Parasite of Camel.* M. K. SUBRAMANIAM: *An Analysis of Certain Criticisms against the Existence of the Golgi Apparatus.*—A critical review of the literature on the morphological characters of Golgi Apparatus. A. C. JOSHI: *Contributions to the embryology of the Menispermaceae.—I. Cocculus villosus DC.* The structure and development of the Gynœcium, ovule and embryosac of *Cocculus villosus* DC. has been reported. K. R. HARSHEY: *On Two New Trematodes of the Genus Opegaster Ozaki, with a Systematic Discussion on the Families Opecœlidae Ozaki, 1925 and Coitocaecidae Ozaki, 1928.* An amendment to the definition of the sub-family Opecœline is provided, and a key to the genera of the sub-family Opecœlinae is given. N. KESAVA PANIKKAR: *The Morphology and Systematic Relationship of a New Boloceroidean from Brackish-Water near Madras, together with an Account of its Asexual Reproduction.*

Indian Chemical Society:

November 1936.—MATA PRASAD AND JAGDISH SHANKER: *X-Ray Investigation of the Crystals of o-Nitrodiphenylamine.* SUBODH GOBINDA CHAUDHURY AND JYOTIRMOY SEN-GUPTA: *On the Relation between peptisation of a Precipitate and its Electrokinetic potential.* S. S. BHATNAGAR, A. N. KAPUR AND M. L. PURI: *Adsorptive Properties of Synthetic Resins.* DUKHAHARAN CHAKRAVARTI AND PHANINDRA NATH BAGCHI: *On the Limited Applicability of Kostanecki's Reaction.* M. A. HAMID, V. S. BHATIA AND H. B. DUNNICLIFF: *The Action of Hydrogen Sulphide on Mercurous Chromate.* PRAFULLA KUMAR BOSE AND NIRMAL CHANDRA GUHA: *On some Synthetic Compounds related to Atophan.* ANUKUL CHANDRA SIKKAR AND SUDHANGSU CHANDRA GUHA: *Condensations of Fural and Furoin.* ANUKUL CHANDRA SIKKAR AND DWIPENDRA CHANDRA CHOWDHURY: *Studies in Acenaphthenequinone Series, Part III.*

ERRATUM.

Vol. V, No. 8, February 1937, pages 414–415, article entitled “Studies on Polyploid Plants” for “÷” occurring in the text to denote the total of chromosomes derived from various species read “+”.