

"Proceedings of the National Academy of Sciences," Vol. 7, Parts 2 and 3.

"Russian Journal of General Chemistry," Vol. 70, Nos. 1 and 2.

"Review of Applied Mycology," Vol. 16, No. 3.

"Science Progress," Vol. 32, No. 128.

"Sky," Vol. 2, No. 6.

"Transactions of the Faraday Society," Vol. 34, No. 204.

Catalogues.

"New Books, Spring 1938" (Edward Arnold & Co., Ltd., London).

"Monthly List of Books on Natural History and Science," April 1938 (Wheldon and Wesley, Ltd., London).

ACADEMIES AND SOCIETIES.

Indian Academy of Sciences :

April 1938. SECTION A.—K. VENKATACHALIENGAR: *On a Problem of the Tetrahedron.*—Proceeding from a geometrical point of view, the theorem is enunciated that the tetrahedron of maximum volume is an orthogonal one. S. N. RAO: *Derivatives of 1-Hydroxy-2-naphthoic Acid. Part IV.—Compounds derived from 4-Nitro-1-hydroxy-2-naphthoic Acid and its Methyl Ether.* B. Y. OKE: *The Electrostatic Forces and the Elasticity Constants.*—An error in the previous papers by the same author is indicated. This does not however affect the numerical calculations in those papers. R. C. SHAW AND B. V. SAMANT: *C-Alkyl Resorcinols. Part III.—A Direct Synthesis of Rhizonaldehyde.*—The synthesis is effected directly from orcinol by converting into orcyaldehyde and subsequent nuclear methylation with methyl-alcoholic KOH and MeI. K. S. K. IYENGAR: *A Note on Narasinga Rao's Problem relating to Tetrahedra.*—The uniqueness of the orthogonal tetrahedron having the maximum volume and the given numbers for the areas of its faces is proved. FAQIR CHAND AULUCK: *The Volume of a Tetrahedron, the Areas of the Faces being Given.* S. PARAMASIVAN: *Technique of the Painting Process in the Temple of Vijayalaya Cholivaram in the Pudukkottai State.* B. S. MADHAVA RAO: *Question of Invariance in the Neutrino Theory of Light.* S. RANGASWAMI, V. SUBBA RAO AND T. R. SESHADRI: *Reactivity of the Double Bond in Coumarins and Related $\alpha:\beta$ -Unsaturated Carboxyl Compounds. Part V.—Action of Mercuric Acetate on Cinnamic Acid and Its Derivatives.*

April 1938. SECTION B.—G. N. RANGASWAMI AYYANGAR, V. PANDURANGA RAO AND T. VENKATARAMANA REDDY: *Studies in Sorghum.—Internodes and Leaf-Sheaths.*—A record of the metrical attributes of the internode, the leaf-sheath and the node, in some of the typical varieties of Sorghum. I. FROILANO DE MELLO, NARANA GANENCAR AND DATTÁ LOUNDO: *On a Flagellate of the Intestine of Tatera indica Hardwicke.*—The morphology and life-cycle of a curious flagellate found in the intestine of the field rat, have been described. N. KESAVA PANIKKAR: *Studies on Peachia from Madras.*—A new species of anemone designated *Peachia tropica* is described. S. AHMAD: *A Study of Aitchisoniella himalayensis Kash.*—From a detailed study of *Aitchisoniella* it is concluded that *Exormothica* can no longer be regarded as the lowest type of Compositæ as *Aitchisoniella* breaks down the boundary line existing between Compositæ and Targioniaceæ making the one pass insensibly into the other. The two families should be merged into the family

Marchantiaceæ as previously suggested by Prof. Kashyap.

Indian Association for the Cultivation of Science:

(Proceedings, Vol. 21, Part 1.)

March 1938.—R. D. JOSHI: *Effect of Temperature on the Electrical Constants of Soil at Radio-Frequencies.* S. M. MITRA: *Raman Effect in Boric Acid and Some Boron Compounds.* BIRENDRAKRISHNA MOOKERJEE: *On Anomalous Depolarisation of Light Scattered by Binary Mixtures.* A. GANGULI: *On the Theory of Liquids.* S. C. SIRCAR AND J. GUPTA: *On the Origin of New Raman Lines due to Molecules in the Solid State and of the Wing due to Liquids.* S. K. MITRA AND H. RAKSHIT: *Distribution of the Constituent Gases and their Pressure in the Upper Atmosphere.* I. RAMAKRISHNA RAO AND P. KOTESWARAM: *The Constitution of Heavy Water.* R. C. MAJUMDAR: *The Theory of Molecular Dissociation and the Fundamental Mechanism in Upper Atmosphere.*

Indian Chemical Society :

February 1938.—K. GANAPATI: *Synthesis in the Alloxazine, isoAlloxazine (Flavin) and Lumazine Groups. Part II.—Synthesis of some Amino Derivatives of Alloxazine and Thioalloxazine.* PANCHANAN NEOGI AND NIHAR KUMAR DUTT: *New Compounds of Gallium. Part III.—Preparation and Resolution of Complex Oxalato Compounds of Gallium into Optical Isomers.* HARBHAJAN SINGH MAHAL: *Quercetagenin from the Flowers of Tagetis erecta.* TEJENDRA NATH GHOSH: *Quinoline Derivatives—Part IV.* MAHADEO PRASAD GUPTA AND SIKHIBHUSHAN DUTT: *Chemical Examination of the Seeds of Solanum xanthocarpum, Schard and Wendle. Part II.—The Constituents.* N. R. CHATTERJEE, S. GHOSH AND R. N. CHOPRA: *Studies on the Enzymes of the Seeds of Butea frondosa. Part I.—Proteolytic Enzyme.* N. R. CHATTERJEE, S. GHOSH AND R. N. CHOPRA: *Studies on the Enzymes of the Seeds of Butea frondosa. Part II.—Lipolytic Enzyme.* SHIAM KISHORE VASISTHA AND SALIMUZZAMAN SIDDIQUI: *Chemical Examination of Mango 'Chep' the Exudation of the Fruit of Mangifera indica.* N. N. MURTY: *A Note on the Action of Chlorine-bleach on the Resin Constituents of Lac.*

Meteorological Office Colloquium, Poona :

April 5, 1938.—DR. K. R. RAMANATHAN: "The general circulation of the atmosphere over India and the neighbourhood, as deduced from pilot balloon observations".