

## ACADEMIES AND SOCIETIES

## Indian Academy of Sciences:

February 1939. SECTION A.—(Miss) S. PANKAJAM: *On Symmetric Functions of  $m$  Symmetric Functions in a Boolean Algebra*. G. ABDULLA AND LAL BAHADUR: *On a Problem of Arrangements*. S. CHOWLA: *A New Solution of the 10-21 Problem*. A. E. BRODSKII, A. M. SACK AND L. V. KORTCHAGIN: *The Raman Spectra of liquid solutions*.—The additivity of the Raman Spectra in mixtures of  $\text{AsCl}_3$ ,  $\text{SbCl}_3$  and  $\text{PCl}_3$  with different solvents, has been investigated. N. M. PHILLIP: *Adiabatic and Isothermal Compressibilities of liquids*.—The adiabatic compressibility, variation of specific volume with temperature, and specific heat at constant pressure have been measured for 24 liquids after careful purification. The data have been applied to the data on light-scattering, and good agreement found. P. B. RAMA MURTY AND T. R. SESHADRI: *Chemical composition of Vitis quadrangularis (Wall.)*.—The plant contains a high percentage of mineral matter, and Vitamin C. As a source of carotene it occupies a middle place. B. R. VENKATARAMAN: *On the inverses of a circle with respect to a tetrad of fixed circles and their orthogonal tetrad*. S. RANGASWAMI, P. SURYAPRAKASA ROW AND T. R. SESHADRI: *Pigments of Cotton Flowers, Part VI.—Methylation of Herbacetin*. B. R. SETH: *Potential solutions near an angular point*. K. S. K. IYENGAR: *On a problem related to the Cauchy-Maclaurin Integral Test*. S. S. BHATNAGAR, P. L. KAPUR AND A. HUSSAIN: *Studies in the properties of Bivalent Metal Oleates, Part I*.—A study of physical properties such as solubility, molecular complexity, viscosity, surface tension, etc., shows that whereas zinc oleate may be regarded as a gel, magnesium oleate behaves more like a colloidal electrolyte. A. NARASINGA RAO: *Studies in Turbine Geometry, III—The non-oriented line element in two-dimensional mobius geometry*.

February 1939. SECTION B.—RAMA NAGINA SINGH: *The Myxophyceæ of the United Provinces, India, IV*—deals with some of Myxophyceæ that have not been recorded from the U.P. JAGJIWAN SINGH: *A Contribution to our knowledge of the Indian Soil Actinomycetes*.—The actinomycetes do not show any marked seasonal variation in population. V. PURI: *Studies in the order parietales, II*.—A Contribution to the Morphology of *Garcinia livingstonii* T. Anders. M. C. CHERIAN AND MOHAMED BASHEER: *Tetrastichus sokolowskii* Kurdj

(Family Eulophidæ)—A Larval Parasite of *Plutella maculipennis* in South India.—The habits and life-history of the parasite are described. H. S. RAO: *Cuticular studies of Magnoliales*.—The Magnoliales have not been directly derived from Bennettitales, and synthetic types combining the characters of the Cycadales, the other haplocheile gymnosperms and the angiosperms are to be found in this small group.

## Indian Association for the Cultivation of Science (Proceedings):

December 1938.—A. C. BANERJI AND P. L. BHATNAGAR: *On the Intensity of Ionisation in the Earth's Atmosphere*. A. BALANKESWARA RAO: *The Spectrum of Argon IV*. L. SIBAIYA: *On the excitation of Chladni Figures*. S. K. BANERJI: *On the Interchange of Electricity between solids, liquids and gases in mechanical actions*. MOHINIMOHAN GHOSH: *Dynamics of the pianoforte string and the hammer, Part II*. S. K. MITRA, J. N. DHAR AND S. P. GHOSH: *The lower ionosphere*.

## Indian Chemical Society:

November 1938.—S. S. BHATNAGAR, P. L. KAPUR AND MAHBUB SHAH HASHMI: *Phototropy and photochemical isomerism from the magnetic Standpoint*. N. R. DHAR AND S. K. MUKERJI: *Denitrification in sunlight and its retardation, Part IV*. W. V. SUNDARA RAO, P. V. KRISHNAMURTI AND G. GOPALA RAO: *Mechanism of the Micro-biological oxidation of ammonia. Part I—Formation of intermediate products*. JAMIAT V. LAKHANI AND RUSTOM P. DAROGA: *The determination of the parachors of inorganic salts in solutions. Part III—The parachors of some salts of magnesium, strontium and barium, and the atomic parachor of the above elements and radium*. R. CHATTERJEE: *Oxalenediamidoxime. Part I—Estimation of nickel*. S. C. GANGULY: *On the estimation of fumaric and maleic acids*. BALWANT SINGH: *Note on oxidation of ferrous iron with potassium iodate*.

## Meteorological Office Colloquium, Poona:

February 3, 1939.—N. K. SUR: *Lange's Radio Meteorograph*. February 14, 1939.—K. R. RAMANATHAN: *The Earth's Magnetism and the Upper Atmosphere*.

## Fourthcoming Event

April 7-8, 1939.—A convention of Technologists and a Symposium on MATERIALS OF CONSTRUCTION FOR THE CHEMICAL INDUSTRY will be held at Bhadravati under the joint auspices of the Association of Technologists, Mysore and

the Technical Association, Bhadravati. The convention will be opened by Rajasevaprasakta A. V. Ramanathan, Chairman, Mysore Iron and Steel Works. Sir C. V. Raman, Kt., F.R.S., N.L., will preside over the Symposium.