

## ACADEMIES AND SOCIETIES

Indian Academy of Sciences  
(Proceedings)

January 1941, SECTION A.—SIR C. V. RAMAN: *Crystals and photons*. The incident radiation excites the crystal vibrations of which the phases are everywhere in coherent relationship with the phase of the radiation field. The scattering of light or the reflection of X-rays with change of frequency appears as the result of the phase of the lattice vibrations varying from point to point in such a manner that the crystal is, in effect, an optically stratified medium giving a monochromatic reflection of the incident rays at the appropriate angle of incidence determined by the spacing of the stratifications and the wave-length of the incident radiation. H. J. BHABHA AND B. S. MADHAVA RAO: *The scattering of charged mesons*. On the basis of the assumption put forward by Bhabha that the heavy particles can exist in states of all integral charge, it is shown that the scattering of charged mesons completely corresponds with the classical theory. B. D. SAKSENA: *Raman spectrum of gypsum*. The polarisation studies and the results obtained with polarised incident light completely satisfy the selection rules for a monoclinic crystal. R. D. DESAI, ABDUL HAMID AND H. P. SHROFF: *Studies in naphthalene series. Part VI. Synthesis of 2-propyl-1-naphthol and properties of 2-propionyl-1-naphthol*. R. D. DESAI AND W. S. WARAVDEKAR: *Studies in naphthalene series. Part VII. Attempted synthesis of 4-stearyl-, 4-palmityl-, and 4-lauryl-1-naphthols*. B. KRISHNASWAMY AND T. R. SESHADRI: *Synthetic experiments in the benzo-pyrone series. Part III. Syntheses of coumarino- and flavono- $\alpha$ -methyl-7:8-dihydrofurans*. A fresh method for building up furan rings on to coumarin and flavone compounds has been studied. (LATE) N. W. HIRWE AND P. Y. KULKARNI: *Studies in chloral amides—Part VII*. S. PARAMASIVAN: *Electrolytic restoration of bronze statues and inscribed copper-plates*. K. VENKATESWARLU: *Relative intensities of Stokes and anti-Stokes Raman lines in crystals*. MISS IONE N. D. DASS AND J. D. TEWARI: *The effect of unsaturated chromophores on pyronine dyestuffs. Part II. Dyes obtained from maleic and succinic acids*. GURDAS RAM AND V. I. VAIDHIANATHAN: *On capillary forces in natural soils*. The capillary theory of a bundle of tubes cannot apply to natural soils and conclusions derived from such a consideration must be wrong. HANSRAJ GUPTA: *An important congruence*.

SECTION B.—SIR C. V. RAMAN: *Crystals and photons*. N. KRISHNASWAMY AND G. N. RANGASWAMI AYYANGAR: *An autotriploid in the pearl millet (Pennisetum typhoides S. and H!)*. T. S. RAGHAVAN AND V. K. SRINIVASAN: *Morphological and cytological studies in the scrophulariaceæ. III. A contribution to the life-history of Ilysanthes parviflora Benth.* JOSE PEREIRA: *On a trypanosome found in the blood of Uroloncha striata L.* T. PRASANNASIMHA ROW: *The range of variation of normal eye tension and the relation between blood pressure and eye tension*. A. ANANTHANARAYANA AYER: *Facial musculature of semnopithecus entellus*. T. S. RAMAKRISHNAN: *Studies in the genus Colletotrichum. 1. Saltation in Colletotrichum capsici (Syd.)*. S. N. DAS GUPTA, G. S. VERMA AND S. SINHA: *Studies in the diseases of Mangifera indica Linn. Part III. Investigation into the effect of sulphur dioxide gas on the mango fruit*.

## Indian Chemical Society: (Journal)

October 1940.—K. V. VIJAYARAGHAVAN: *Mercury diallyl and allyl mercuric halides*. (MISS) ASIMA MOOKERJEE: *On the bitter principles of Citrus decumana*. S. M. SETHNA AND R. C. SHAH: *Kostanecki-Robinson Reaction—Part III. Benzoylation of Orcacetophenone and its monomethyl ether*. MAHAN SINGH AND ARJAN SINGH: *Magnetic susceptibility and optical rotatory powers of p-hydroxy- $\alpha$ -naphthyliminocamphor*. PHANINDRA CHANDRA DUTTA: *A new synthesis of hexahydro-isophthalic acid*. PHANINDRA CHANDRA DUTTA: *Studies in the cyclopentane series—Part I. Synthesis of 1-methylcyclopentane-1:2-dicarboxylic acid in cis- and trans-forms*. K. N. GAIND, J. N. RAY AND BADRI SARIN: *Synthesis of new local anaesthetics—Part V*. PRODOSH CHANDRA RAY-CHOUDHURY: *Complex chromium selenates*. SRIDHAR SARVOTTAM JOSHI AND DUSHYANT NARASINGASA SOLANKI: *The influence of temperature on the electrical conductivity and viscosity of aqueous mercuric chloride*.

## Geological Institute, Calcutta: (Journal)

The recent number (Vol. III) of the Journal *Bhu-Vidya* of the Geological Institute, Presidency College, Calcutta, contains a number of articles of varied interest such as the Economic Deposits of Bengal (by S. C. Guha), Marine Transgressions (by S. K. Ray), An Abandoned Gold Mine in S.E. Wynaad (by J. Sen Gupta), etc. The Journal also gives a Report of the several activities of the Institute during 1939-40 under the Presidentship of Dr. P. K. Ghosh, of the Geological Survey of India.

## ERRATA

1. Vol. 9, No. 12, December 1940: Contribution entitled, "Tetraploid Til (*Sesamum orientale* L.) from Colchicine Treatment", page 542; legend under Fig. 1, for "Deploid Sesam" read "Diploid Sesame"; under Fig. 2, for "Tetraploid Sesam" read "Tetraploid Sesame".
2. Vol. 10, No. 1, January 1941: Note entitled

"Production of Fruit-bodies of *Agariceus polyporus* Berk. in Artificial Culture", page 26, 2nd column in the heading of the note for "*Agariceus polyporus* Berk." read "*Polyporus agariceous* Berk."; line 20 of the same note for "Polyporus culture" read "Polysporus culture".