

ACADEMIES AND SOCIETIES.

Indian Academy of Sciences:

June 1938. SECTION A.—K. C. PANDYA AND T. S. SODHI: *The Condensation of Aldehydes with Amides—Part I. The Condensation of Salicylaldehyde.*—It is found that the catalytic influence of a base promotes the reaction better and gives a purer product. R. K. MEHRA AND K. C. PANDYA: *Condensation of Malonanilic Acid with Aromatic Aldehydes.*—Using only a trace of pyridine or piperidine gives a better yield. R. K. MEHRA AND K. C. PANDYA: *The Condensation of Aldehydes with Amides—Part II. The Condensation of Cinnamaldehyde.*—The presence of the base does not very much affect the yield. The product in all cases is the Cinnamalidenbisamide. K. C. PANDYA AND T. S. SODHI. *The Condensation of Aldehydes with Malonic Acid in the Presence of Organic Bases. Part X. The Condensation of 2:4-Resorcyraldehyde.*—Umbelliferon or Umbellic Acid is obtained according to conditions. A trace of pyridine gives a better yield. D. K. JAIN AND R. R. AGARWAL: *On the Amylase from the Indian Water Chestnut (Trapa bispinosa Roxb.)—Part II. Studies with the Purified Powdered Form of the Enzyme.*—The course of the action of the enzyme on starch has been studied. H. GUPTA: *A Generalisation of Leudesdorf's Theorem.* T. S. SURATKAR, S. M. MEHTA AND MATA PRASAD: *A Study of the Systems $CuSO_4-NiSO_4-H_2O$ and $CuSO_4-CoSO_4-H_2O$.* K. S. K. IYENGAR: *On Linear Transformations of Bounded Sequences.—I.* L. S. HEBLE AND T. S. WHEELER: *Kinetics of the Reaction between Benzyl Chloride and Formic Acid.*—The velocity of the reaction decreases with increase in concentration of benzyl chloride in formic acid and is much slower than that calculated from the observed heat of activation.

June 1938. SECTION B.—HUSAIN KHATIB: *Four Cases of Abnormalities in the Blood Vascular System of the Common Indian Frog (Rana tigrina Daud.).*—For the first time abnormalities in the anterior venous and the arterial system have been recorded in the common Indian frog. Three explanations for the abnormal post-caval vein have been put forward on ontogenetic grounds. G. N. RANGASWAMI AYYANGAR, V. PANDURANGA RAO AND B. W. X. PONNAIYA: *Studies in Sorghum: The Non-Auriculate and E-Ligulate Condition.*—With the suppression of the auricle and ligule there is an absence of the pulvinus and a shortening of the spikelet-free area in the panicle branches and branchlets. This leads to a choking overcrowding of the spikelets on the earhead and consequent risk of sterility. In highly evolved sorghums with auricle and ligule the presence of the pulvinus and pushing away of the grain-bearing area from the central axis have resulted

in producing an economic earhead. M. C. CHERIAN AND MOHAMED BASHEER: *Brachymeria excarinata, Gahan (Family Chalcididae) a Pupal Parasite of Plutella maculipennis, Curtis, in South India.*—An account of the pupal parasite of the Diamond-back moth. G. W. CHIPLONKER: *Rhynchonellids from the Bagh Beds.*—A critical examination of the Rhynchonellids from the neighbourhood of Chirakhan (Indore State) with a view to studying their phylogeny. B. THIRUMALACHAR: *On Certain Double Monstrosities of Gambusia.*—A brief description of the occurrence of double monstrosities in viviparous fish. M. ABDUSSALAM: *On a New Nematode Parasite of the Himalayan Flying Squirrel (Pteromys inornatus Geoffroy).*

Indian Association for the Cultivation of Science: (*Proceedings, Vol. XXI, Part II*).

April 1938.—K. BANERJEE AND A. HAQUE: *Structure of Aromatic Compounds, Part III.—Benzophenone.* U. K. BOSE: *Cathodic Sputtering.* M. RAZIUDDIN SIDDIQI: *On the Theory of a Non-linear Partial Differential Equation of the Elliptic Parabolic Type.* S. N. BOSE: *On the Total Reflection of Electromagnetic Waves in the Ionosphere.* S. C. SIRKAR AND J. GUPTA: *On the Heat Capacities of a Few Crystals at Low Temperatures.*

Indian Chemical Society:

April 1938.—SHRIDHAR SARVOTTAM JOSHI, DUSHYANT NARASINGASA SOLANKI AND T. V. SUBBA RAO: *Influence of Non-electrolytes on the Cathode Efficiency of Copper Deposition.* SHRIDHAR SARVOTTAM JOSHI AND S. PADMANABHAN: *Studies of Some Physico-Chemical Factors in the Electrodeposition of Silver.* M. N. RUDRA: *Studies in Vitmain C, Part V.—The Vitamin C Content of Some Germinated Cereals and Pulses.* K. ASWATH NARAIN RAO AND P. R. VENKATA RAMAN: *Isomeric Triazocinnamic Acids and Related Compounds.* S. K. MITRA: *Thioketonic Esters, Part VII.—Thio-thiol Estimation.* NRIPENDRA NATH CHATTERJEE: *A New Synthetic Route to Polycyclic Hydroaromatic Compounds. Synthesis of 2:3 Benz-bicyclo (0:3:3)-octene.* KUNJ BEHARI LAL AND H. KRALL: *The Phenylthiocarbamides—A Contribution to the Study of the Triad N C S—Part VI. Action of Nitrous Acid on a Methylphenylthiocarbamide.* KUNJ BEHARI LAL AND H. KRALL: *The Phenylthiocarbamide—A Contribution to the Study of the Triad N C S. Part VII—A Reinvestigation of the Extent of Some Hydrolytic Decompositions of Phenylthiocarbamide. Reactions of sodium ethoxide on phenylthiocarbamide and of acetic anhydride and Hydrolytic Agents on $\alpha\alpha$ - and α -Methylphenylthiocarbamides.* G. P. PENDSE: *Dyes Derived from Thiokhydanol—Part III.*

Erratum.

Vol. VI, No. 12, June 1938, contribution entitled "Production and Measurement of Low Temperatures", page 591, equation (3)

$$\text{for } \left(\frac{\partial u}{\partial v} \right)_T = T \left(\frac{\partial p}{\partial T} \right)_v - p \quad \text{read } \left(\frac{\partial u}{\partial v} \right)_T = T \left(\frac{\partial p}{\partial T} \right)_v - p$$