

ACADEMIES AND SOCIETIES

Indian Academy of Sciences:
(Proceedings)

October 1940. SECTION A.—V. SURYAPRAKASAM: *Effect of temperature on the ultrasonic velocity in liquids.* Eleven organic liquids have been studied over range 30° C. to 120° C. All liquids exhibit a diminution of sound velocity with rising temperature, the rate being of the order of 3 to 5 metres per second per degree. C. N. SRINIVASIENGAR: *Some properties of rectilinear congruences.* M. R. ASWATHA NARAYANA RAO: *Sulphuryl iodide.* Spectroscopic studies indicate that sulphuryl iodide is produced by the action of potassium iodide on a dilute solution of sulphuryl chloride in CS₂ at -70° C. R. D. DESAI AND V. M. VAKIL: *Heterocyclic compounds—Part XI. The application of the Pechmann and the Kostanecki reactions to γ -orcacetophenone.* S. RAMACHANDRA RAO AND S. ARAVAMUDACHARI: *Diamagnetism of Phosphorus.* The diamagnetic susceptibility observed when white phosphorus is dissolved in carbon disulphide, is larger than the value calculated from additive law. C. J. DASA RAO, T. R. SESHADRI AND J. VEERARAGHAVIAH: *Chemical investigation of Indian fruits—Part II.—The composition of the oil from the seeds of Indian shaddock.* P. SURYAPRAKASA RAO AND P. PRABHAKARA REDDY: *Occurrence of herbacetin in the flowers of the Indian tulip (Thespesia populnea).* Both populnetin and herbacetin are present, and their relative proportion seems to vary considerably depending on the season of collection of the flowers. S. RANGASWAMI AND T. R. SESHADRI: *A note on certain constitutional factors controlling visible fluorescence in compounds of the benzo-pyrone group.* A hydroxyl group in 7-position causes fluorescence in the coumarins. P. S. VARADACHARI: *Secondary electron emission of nickel at the Curie point.* No sudden alteration in the secondary electron current was observed at the Curie point (358° C.). R. D. DESAI AND (MISS) V. M. VAKIL: *Studies in the Friedel-Crafts reaction—Part VI. Further evidence for γ -substitution in the resorcinol and orcinol derivatives.* V. SEETHARAMAN: *On the existence of a metric for path-spaces of order two.* HANSRAJ GUPTA: *On a table of values of L(n).* M. R. ASWATHA NARAYANA RAO: *Selenium iodide.* Selenium iodide is formed by treating dilute solution of selenium chloride in CCl₄ with dry KI. B. D. SAKSENA: *Raman spectra of some esters of di-carboxylic acids. Oxalyl chloride, ethyl- and methyl-oxalate, ethyl malonate, ethyl phthalate, ethyl fumarate, ethyl maleate and oxalic acid.*

October 1940. SECTION B.—S. N. DAS GUPTA AND G. S. VERMA: *Studies in the diseases of Mangifera indica Linn.—II. Effect of injecting healthy mango fruits with extract from naturally occurring necrotic mangoes.* J. B. S. HALDANE: *The estimation of recessive gene frequencies by inbreeding.* Y. APPAJEE: *A note on the relative positions of the corpus callosum and the hippocampal formation.* JAI CHAND LUTHRA, ABDUS SATTAR AND SARDUL SINGH SANDHU: *Experiments on the control of smut of sugarcane (Ustilago scitaminea Syd.).* M. S. RANDHAWA: *Some peculiarities in conjugation in a new Himalayan species of Zygnema.* URSULA PHILIP: *A genetical analysis of three small populations of Dermestes vulpinus F. (Coleoptera).* JAI CHAND LUTHRA, ABDUS SATTAR AND SARDUL SINGH SANDHU: *Some studies on the physiology of Cytospora sacchari Butl., the causal fungus of stem canker disease of sugarcane.*

Indian Chemical Society:

August 1940.—(Late) N. W. HIRWE AND K. N. RANA: *On chloralamides. The reaction of potassium cyanide on α -chlorochloral-chloro-2-methoxy-benzamides and the hydrolysis of the resulting cyano compounds.* MAHAN SINGH AND ARJAN SINGH: *Cyanocamphoranilic acids and their rotatory powers.* S. M. SETHNA AND R. C. SHAH: *Kostanecki-Robinson reaction—Part II.—Propionylation and butyrylation of orcacetophenone and its monomethyl ether.* GURCHARAN LAL JUNEJA, KARTAR SINGH NARANG AND JNANENDRA NATH RAY: *Sulphonamides—Part I. PRAFULLA KUMAR BOSE AND PHANIBHUSAN DUTT: On the constitution of pedicinin.* MATA PRASAD AND B. G. SHEJWALKAR: *Viscosity of Thorium arsenate gels during setting.* S. S. BHATNAGAR, B. D. KHOSLA AND RAM CHAND: *Magnetic evidence regarding the state of metallic ions in phosphate glasses.* N. R. DHAR AND E. V. SESHACHARYULU: *Nitrogen fixation and total bacterial count on the application of energy materials to alkali soils.* PRIYADARANJAN RAY: *A note on the reactions and exchange of active iodine in inorganic system.* N. V. SUBBA RAO AND J. VEERABHADRA RAO: *A note on the occurrence of free fatty acids in the cake of Pongamia glabra.*

Meteorological Office Colloquium, Poona:

October 7, 1940.—RAO BAHADUR V. DORAI-SWAMY IYER: *Formulae for forecasting seasonal rainfall in Mysore and South Madras.*

October 15, 1940.—MR. V. V. SOHONI: *Past climates.*

October 22, 1940.—MR. A. K. ROY: *Isentropic analysis of weather charts.*

ERRATUM

Vol. 9, No. 10, October 1940:

Review Article entitled "Excavations at Harappa", para 5, line 6, for "Mr. Vats" read "Mr. Mohammad Sana Ullah".