

## ACADEMIES AND SOCIETIES

### Indian Academy of Sciences:

August 1939. SECTION A.—N. V. SUBBA RAO, J. VEERABHADRA RAO AND T. R. SESHADRI: A note on the preparation and reactions of karanjin.—Karanjin is only faintly bitter. A method of hydrolysis of karanjin giving rise to a good yield of karanjinic acid has been found. P. A. MOSES: Raman spectra of fused nitrates.—Sodium, potassium and aluminium nitrates have been studied, and the polarisation characters of the Raman lines also determined. The intensity and polarisation in the wing accompanying the Rayleigh line  $\lambda$  4046 of fused sodium nitrates show some characters as in common liquids. S. PARAMASIVAN: The Pallava paintings at Conjeevaram.—An investigation into the methods. S. PARAMASIVAN: The wall paintings in the Bagh caves.—An investigation into their methods. P. BHASKARA RAMA MURTI AND T. R. SESHADRI: Chemical composition of Indian *Senna* leaves (*Cassia angustifolia*).—The flavonol portion consists of iso-rhamnetin and kaempferol in more or less equal quantities, whereas the anthraquinone portion contains mostly rhein along with small quantities of emodin.

August 1939. SECTION B.—MAKUND BEHARI LAL: Studies in Helminthology.—Trematode parasites of birds. K. M. THOMAS AND C. S. KRISHNASWAMI: Little leaf.—A transmissible disease of Brinjal. B. R. SESHACHAR: Testicular ova in *Uraeotyphlus narayani* Seshachar. I. FROILANO DE MELLO: Two new additions to the list of the Indian Aspergilli.

### Indian Chemical Society:

June 1939.—S. S. BHATNAGAR, A. N. KAPUR AND MAHENDRA SARUP BHATNAGAR: Adsorptive properties of synthetic resins—Part III. R. K. BAHL AND SRUJIT SINGH: A study of the peroxide of copper. A. MUKHERJI: The estimation of aneurin by the thiochrome reaction with pulfrich photometer. (Late) N. W. HIRWE, G. V. JADHAV AND D. R. SUKHTANKAR: Interaction of sulphuryl chloride with arylamides of aromatic acids—Part II. Orienting influences of groups in substitution reactions in aromatic compounds. N. M. SHAH: Chloralides, the condensation of Butylchloral with  $\alpha$ -Hydroxy carboxylic acids. MUHAMMAD QUDRATI-I-KHUDA AND SUBASH KUMAR GHOSH: Chemistry of substituted Ring compounds—Part I.—Synthesis of  $\alpha\alpha\gamma$ -Trimethyl cyclopentanone. JAGRAJ BEHARI LAL: Studies in Chalkones—Part I. Chalkones derived from Resacetophenone and its dimethyl ether. U. P. BASU AND P. K. DAS-GUPTA: On 2-phenyl-4-aminoquinoline derivatives. M. K. SRINIVASAN: Viscosity of non-ideal binary liquid systems. EDWARD BARNES: A note on the action of strong solutions of alkalis on potassium ferricyanide.

August 8, 1939.—DR. H. K. SEN: Shellac in Moulding and Varnish Industry.

### Mining, Geological and Metallurgical Institute of India: Transactions

June 1939.—B. SEN AND M. V. WAZALWAR have expressed their views on Dr. Crookshank's paper on "The iron ores of the Bailadila Range in Bastar State", with special reference to the possibility of exporting these ores to the Far East, Japan and China.

E. B. PARK has a paper of great importance on *Methods of detection and dealing with Heatings and Fires in coal mines*,—which is eminently practical in its character. The discussion on this paper will no doubt be read with great interest by those who are concerned with the coal mining industry in India.

The methods of obtaining sand for hydraulic stowing in India, have been described by Messrs. L. J. BARRACLOUGH AND S. B. HALL, and this paper will be welcomed as a valuable contribution, full of practical details, on a subject of great current interest.

A short paper on *Quantity measurements in hydraulic mining by the Monitor* by MR. K. B. SWAMY, deals with the value of and method of carrying out, recurrent surveys for assessing the results of hydraulic mining of hill faces by Monitors, and with the duty of water in hydraulicking.

### National Academy of Sciences, India:

August 4, 1939.—H. R. MEHRA: New Bood Flukes of the family Spirorchidae Stunkard (Trematoda) from the Marine Turtle *Chelone mydas* of the Arabian Sea with the observations on the synonymy of certain Genera and classification of the family. SHRI RANJAN AND V. R. JHA: Studies on the effect of Ethylene and Sulphur dioxide on the fruits of mangifera indica. SHRI RANJAN AND G. N. SAPRU: Studies on the effects of Ethylene on the ripening process of Guava (*Psidium guava*). N. S. JAPOLSKY, Davy Faraday Laboratory, Royal Institution, 21, Albemarle Street, London, W. 1. (Communicated by The Hon'ble Sir Shah Muhammad Sulaiman, Kt.): The Radion and the Electro-Magnetic whirl. MAHADEO PRASAD GUPTA, JAGRAJ BEHARI LAL AND SIKHIBHUSHAN DUTT: Constitution of Cuscitalin. JAGRAJ BEHARI LAL: Theory of Zinck's Reaction. BRAJ KISHORE MALAVIYA AND SIKHIBHUSHAN DUTT: Chemical examination of the essential oil from the peels of Nagpur oranges. BRAJ KISHORE MALAVIYA AND SIKHIBHUSHAN DUTT: Chemical examination of the essential oil *Curcuma caesia*. JAGAT NARAIN TAYAL AND SIKHIBHUSHAN DUTT: Chemical examination of the essential oil of *Hedychium spicatum*. JAGAT NARAIN TAYAL AND SIKHIBHUSHAN DUTT: Chemical examination of the seeds of *Euphorbia dracunculoides*: composition of the fixed oil.