

## ANNOUNCEMENTS

A limited number of copies of the photograph reproduction of the portrait of Sir Frederick Gowland Hopkins, O.M., painted for the Royal Society by Mr. Meredith Frampton, A.R.A., is available and the Royal Society believe that many friends and admirers of Sir Frederick Gowland Hopkins will welcome the opportunity of acquiring these at a price barely covering the cost of the extra printing and delivery. Those requiring a copy should apply to the Assistant Secretary, The Royal Society, Burlington House, London W. 1., with a cheque or Postal Order for 2 Shillings. Not more than one copy will be supplied to one applicant.

It is proposed to hold the Seventh International Congress of Agricultural Industries in Rome in 1942. Further information regarding the Congress will be published in due course.

The Association of Surgeons of India offers an annual prize of Rs. 100 to the best essay based on original work on a selected subject. The subject for 1940 is:—"BLOOD CHANGES IN SURGICAL INFLAMMATIONS." The competition is open to all qualified medical practitioners registered in India, who have been in practice for not more than 10 years after qualification.

The essay should reach the Secretary before the 1st December 1940.

Further details regarding the prize can be had from the Secretary, Association of Surgeons of India, Binfield, Kilpauk, Madras.

Those interested in cotton research will be glad to know that Dr. H. C. Harland is now in

Peru, S. America. His present address is Dr. H. C. Harland, Director, Institute of Cotton Genetics, Sociedad Nacional Agraria, Lima, Peru.

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We acknowledge with thanks the receipt of the following:—

"Agricultural Gazette of New South Wales," Vol. 51, Pt. 3.

"Journal of the Royal Society of Arts," Vol. 88, Nos. 4552-56.

"The Philippine Agriculturist," Vol. 28, No. 10.

"Monthly Bulletin of Agricultural Science and Practice," Vol. 31, No. 2.

"Allahabad Farmer," Vol. 14, No. 2.

"Biochemical Journal," Vol. 34, Nos. 1 and 2.

"Biological Reviews," Vol. 15, No. 1.

"The Journal of Chemical Physics," Vol. 8, No. 2.

"Journal of the Indian Chemical Society," Vol. 17, No. 1.

"Chemical Products," Vol. 3, Nos. 3 and 4.

"Experiment Station Record," Vol. 82, Nos. 1 and 2.

"Indian Forester," Vol. 46, Nos. 3 and 4.

"Transactions of the Faraday Society," Vol. 36, No. 227.

"Indian Farming," Vol. 1, No. 2.

"The Review of Applied Mycology," Vol. 19, No. 2.

"The Bulletin of the American Meteorological Society," Vol. 21, No. 1.

"Indian Medical Gazette," Vol. 75, No. 3.

"Nature," Vol. 145, Nos. 3667-72.

"Occasional Notes," No. 7 (Dec. 1939).

"Sky," Vol. 4, No. 4.

"Science Forum," Vol. 5, No. 1.

## ACADEMIES AND SOCIETIES

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

December 1939.—S. M. MITRA: *Raman Effect in arsenates and heat of dissociation of AsO*. SACHINDRAMOHAN MITRA: *On the influence of foreign substances on the absorption of the dye-stuffs in solution*. RAJENDRALAL DE: *A weak Radio-active substance (preliminary note)*. N. S. PANDYA AND P. D. PATHAK: *A note on the maintenance of electron emission on Cossor Valves after the low Tension supply is disconnected*. G. P. DUBE AND H. K. DAS GUPTA: *On the London-van der Waals forces between two disc-like particles*. D. S. SUBRAHMANYAM: *Pressure waves and boundary surfaces in the free atmosphere*. (MISS) ASIMA MOOKERJEE AND JAGANNATH GUPTA: *Raman Spectra of Coumarins and chromones*. S. K. KULKARNI JATKAR: *Supersonic velocities in gases and vapours*. MD. SALARUDDIN AND B. G. NARAYAN: *Unusual Solar Activity*.

### Indian Academy of Sciences:

March 1940. SECTION A.—M. AKRAM, R. D. DESAI AND A. KAMAL: *Studies in naphthalene series—Part I. Some properties of 2-acetyl-1-naphthol and the synthesis of 2-ethyl-1-naphthol*. N. A. CHOUDHRY, R. D. DESAI AND G. S. SAHARIYA: *Studies in naphthalene series—Part II. The synthesis of the trans-form of trans-decalin-2-carboxy-3-acetic acid*. M. AKRAM AND R. D. DESAI: *Studies in naphthalene series—Part III. Properties of 4-acetyl-1-naphthol and the preparation of 4-ethyl-1-naphthol*. Part IV. *The preparation and properties of 2:4 diacetyl-1-naphthol and 2-acetyl-4-propionyl-1-naphthol*. M. R. ASWATHANARAYANA RAO: *Investigations on the iodide of sulphur—Part I. Formation of sulphur mono-iodide*. Part II. *Rate of decomposition and spectroscopic studies*. Sulphur mono-iodide is formed in carbon tetrachloride solutions, when a dilute solution of sulphur chloride is treated with solid potassium iodide. The

sulphur iodide is decomposed by light and heat, but is comparatively stable at low temperatures. M. R. ASWATHANARAYANA RAO: *Thionyl iodide—Part I. Formation of thionyl iodide. Part II. Rate of decomposition and spectroscopic studies.* Thionyl iodide is made in carbon tetrachloride solutions by shaking a dilute solution of thionyl chloride with solid potassium iodide. The thionyl iodide is extremely unstable in presence of light. L. RAMACHANDRA ROW AND T. R. SESHADRI: *Synthetical experiments in the benzopyrone series—Part II. Synthesis of flavono- and coumarino-7:8-furan- $\beta$ -ones and their derivatives.* K. SUNANDA BAI: *Raman Spectra of some carboxylic acids.* Isobutyric, benzoic, cinnamic and lactic acids as well as ethyl lactate have been studied. Changes in Raman spectra with temperature and state of aggregation have been investigated. B. DAYAL SAKSENA: *Raman effect and crystal symmetry.* Using a purely geometrical reasoning, it has been possible to write the tensor components for all vibrations belonging to any point-group of the crystal classes. The results are compared with the experimental data in sodium nitrate and good agreement between theory and experiment is observed.

March 1940. SECTION B.—(MISS) P. R. PARUKUTTY: *The myxophyceae of the Travancore State, India.* C. SURYAPRAKASA RAO: *The myxophyceae of the Delhi Province, India—I.*

### Indian Chemical Society:

December 1939.—PRIYADARANJAN RAY AND PHANINDRA NATH BAGCHI: *Complex compounds of Biguanide with Bivalent Metals—Part I. Copper Biguanidines.* PRIYADARANJAN RAY AND NIHAIR KUMAR DUTT: *Complex compounds of Biguanide with Tervalent Metals—Part VI. Cobaltic trisBiguanidines.* PRIYADARANJAN RAY AND HARIHAR PRASAD BHATTACHARYA: *Complex compounds of biguanide with tervalent metals—Part VII. Cobaltic trisPhenylbiguanidines.* B. N. GHOSH AND P. C. ROY: *Comparison of the Cathaphoretic and Electro-osmotic methods of measuring electrokinetic potential.* DUHKHAHARAN CHAKRAVARTI AND JYOTIRMOY DUTTA: *Synthetical experiments in the Pyrone series. Attempted oxidation of chromanones with selenium dioxide—Part I.* P. M. BARVE, V. C. VORA AND B. N. DESAI: *Mutual coagulation of colloidal solutions. Interaction of copper ferrocyanide with ferric hydroxide, thorium hydroxide and ceric hydroxide.* PRODOSH CHANDRA ROY CHAUDHURY: *Chromium chromate.* BAIDYANATH GHOSH: *Vitamin C and Toxins—Part IV. The Effect of tetanus toxin on vitamin C metabolism.* K. M. CHAKRAVARTY: *Catalytic formation of methane*

*from carbon monoxide and hydrogen—Part VI. On the poisoning by carbon deposition.* JAGDISH SHANKER, PRABHAKAR N. BALJEKAR AND MATA PRASAD: *Space group determination of the crystals of melamine.* P. C. MITTER AND PHANINDRA CHANDRA DUTTA: *Studies in long-chain acids—Part II. On aleuritic acid (I).* (LATE) N. W. HIRWE AND K. N. RANA: *On chloral-amides. The reaction of phosphorus pentachloride on chloral-chlorosalicylamides and their methyl ethers and the reactivity of the chlorine atom.* G. GOPALA RAO AND W. V. SUNDARA RAO: *Mechanism of the microbiological oxidation of ammonia—Part II.*

January 1940.—BAWA KARTAR SINGH AND TARA PROSAD BARAT: *Studies on the dependence of optical rotatory power on chemical constitution—Part XVII. Nitro and Carboxyaryl derivatives of stereoisomeric methylenecamphors.* MUHAMMAD QUDRAT-I-KHUDA AND SUBASH KUMAR GHOSH: *Stereochemistry of monocyclic rings—Part I. Interconversion of methylcyclohexane into methylcycloheptane ring and synthesis of 4-methylcycloheptanone.* H. A. SHAH AND R. C. SHAH: *C-alkylresorcinols—Part IV. Nuclear methylation of 4-acyl-resorcinols.* S. M. SETHNA AND R. C. SHAH: *Pechmann condensation of methyl  $\beta$ -resorcyate with some  $\beta$ -ketonic esters.* H. A. SHAH AND R. C. SHAH: *Furano compounds—Part I. Synthesis of Furo-3'-methyl-5:6-(4':5')-coumarin and Furo-3'-ethyl-5:6(4':5')-coumarin.* PRAFULLA KUMAR BOSE AND PHANIBHUSHAN DUTT: *Natural flavones—Part IV. On the constitution of erianthin, the yellow colouring matter of Blumea eriantha DC.* PRAFULLA KUMAR BOSE AND SACHINDRA NATH DUTT: *Investigation of the oil from the fruits of Ferula alliacea, Boiss.* W. V. BHAGWAT: *Application of Beer's Law of Absorption to solutions.* S. S. DESHPANDE, W. V. BHAGWAT AND C. W. SUBNIS: *Velocity of transformation of 1:3:5-triketones into 2:6-disubstituted  $\gamma$ -pyrones—Part I. Velocity of transformation of acetone dioxalic ester into chelidonic ester.* DUHKHAHARAN CHAKRAVARTI AND NARENDRALAL DUTTA: *Synthesis of coumarins from o-hydroxyl-aryl-alkyl ketones—Part III.*

### Meteorological Office Colloquium, Poona:

March 5th.—DR. K. R. RAMANATHAN: *Ozone and its distribution in the upper atmosphere.*

March 12th.—MR. C. RAMASWAMY: *On Deppermann's memoir on some characteristics of Philippine Typhoons.*

March 19th.—DR. S. K. BANERJI: *Criteria for stability of the atmosphere from Dynamical considerations.*

## ERRATA

Vol. 9, No. 3, March 1940:—

- (1) Contribution entitled "Calcium Utilisation from Green Leafy Vegetables", p. 124, second column, first line: For "the skim milk", read "its".

- (2) Contribution entitled "Kostanecki Acylation of Orcacetophenone", page 118, lines 13 and 14: For "Orcacetophenone and its monomethyl ether on benzoylation gave", read "Orcacetophenone on benzoylation gave".