

We acknowledge with thanks the receipt of the following:

- "Journal of the Royal Society of Arts," Vol. 39, Nos. 4577-78.
 "Journal of Agricultural Research," Vol. 61, Nos. 4-8.
 "Agricultural Gazette of New South Wales," Vol. 52, Pt. 2.
 "Indian Journal of Agricultural Science," Vol. 9, Pt. 1.
 "Biological Reviews," Vol. 16, No. 1.
 "Journal of the Indian Botanical Society," Vol. 20, No. 3.
 "Journal of Chemical Physics," Vol. 9, No. 2.
 "Journal of the Indian Chemical Society," Vol. 17, Nos. 11-12.
 "Chemical Products," Vol. 4, Nos. 1-2.
 "Indian Central Jute Committee" (Bulletin), Vol. 3, No. 12.
 "Bulletin of the American Meteorological Society," Vol. 21, No. 10.
 "Indian Medical Gazette," Vol. 76, No. 3.
 "Journal of Nutrition," Vol. 21, No. 2.

- "Nature," Vol. 146, Nos. 3713-14 and Vol. 147, No. 3715.
 "Indian Journal of Physics," Vol. 14, Pt. 5.
 "Canadian Journal of Research," Vol. 18, No. 11 (A.B.C.D.).
 "Sky," Vol. 5, No. 5.
 "Science and Culture," Vol. 6, No. 10.
 "Indian Trade Journal," Vol. 140, Nos. 1812-15.

Books

- Temperature, its measurements and control in science and industry.* By The American Institute of Physics. (Reinhold Publishing Corporation, New York), 1941. Pp. xiv + 1362. Price \$11.00.
Temperature measurement. By Robert L. Weber. (Edwards Brothers Inc., Michigan), 1941. Pp. x + 171.
Practical Histology and Embryology. By Nellie B. Fales. (Macmillan Co., London), 1940. Pp. vi + 111. Price 3sh. 6d.
The Indian Sugar Industry (1940 Annual). (Messrs. Gandhi & Co., Calcutta), 1941. Pp. 350. Price Rs. 4-8-0 or 12sh.

ACADEMIES AND SOCIETIES

Indian Academy of Sciences:
(Proceedings)

March 1941. SECTION A.—I. D. SETH: *Reflection and refraction of attenuated waves in semi-infinite elastic solid media.* T. M. K. NEBUNGADI: *Effect of crystal orientation on the Raman effect in naphthalene and benzophenone.* From the observed changes in intensities and the known molecular orientations in the crystal, it is deduced that the incident light vector vibrating in the plane of the aromatic ring excites some oscillations of the molecules much more strongly than the light vector perpendicular to the plane. R. D. DESAI AND W. S. WARAVDEKAR: *Heterocyclic compounds. Part XII. Chromones from resacyl and gallacylphenones containing long-chain acyl groups, and some chemical properties of these hydroxy-ketones.* S. ASHRAF ALI, R. D. DESAI AND H. P. SHROFF: *Heterocyclic compounds. Part XIII. Abnormal alkaline hydrolysis of some 4-isopropyl-1:2- α -naphthopyrones.* T. A. S. BALAKRISHNAN: *An elementary theory of the coronas of water droplets.* The water droplets are treated instead of as opaque discs as perfectly transparent spheres in passing through which the wave fronts undergo a phase retardation. K. NEELAKANTAM AND L. RAMACHANDRA ROW: *The lanthanum nitrate test for acetate in inorganic qualitative analysis.* The above test for acetate ion has been examined for use in the routine analysis for mixtures of inorganic substances including the acetate, oxalate, and tartrate radicles. V. SUBBA RAO AND T. R. SESHADRI: *Chemical investigation of Indian lichens. Part III. The isolation of montagnetol, a new phenolic compound from Roccella montagnei.* MOHAMMAD SHABBAR: *On the existence of a metric for*

path spaces admitting the lorentz group. S. V. ANANTHAKRISHNAN AND V. PASUPATI: *Substitution in polycyclic systems. Part II. The nitro-derivatives of fluoryl 9-trimethylammonium compounds.* P. BHASKARA RAMA MURTI AND T. R. SESHADRI: *A study of the chemical components of the roots of Decalepis Hamiltonii (Makali Veru). Part I. Chemical composition of the roots.* K. V. BOKIL AND K. S. NARGUND: *Synthesis in the chaulmoogric acid series. Part III. Synthesis of dl-hydrocarpic acid.* Synthesis of dl-hydrocarpic acid has been effected for the first time and described. V. V. NARLIKAR: *A classical limit of heavy homogeneous spherical masses.* TRIPURA CHARAN SARKAR: *The lead ratio of a crystal of monazite from the Gaya District, Bihar.* The pegmatites of Gaya may be considered as the last phase of igneous activity in post-Dharwar and pre-Cuddapah times.

SECTION B.—P. N. GANAPATI: *On a new myxosporidian Henneguya otolithi N. Sp. A tissue parasite from the bulbus arteriosus of two species of fish of the genus Otolithus.* L. S. S. KUMAR AND S. SOLOMON: *A list of hosts of some phanerogamic root-parasites attacking economic crops in India.* G. N. RANGASWAMY AYYANGAR AND B. W. X. PONNAYIA: *Studies in Sorghum halepense (Linn.) Pers—the Johnson grass.* M. A. BASIR: *Two new nematodes from an aquatic beetle.* L. S. S. KUMAR AND G. B. DEODIKAR: *Commelina alisagarensis Kumar and Deodikar: a new species from Hyderabad, Deccan, India.* SYED MUZAMMIL ALI: *Studies on the comparative anatomy of the tail in sauria and rhynchocephalia. I. Sphenodon punctatus Gray.* K. H. ALIKUNHI: *On a new species of praegeria occurring in the sandy beach, Madras.*

Indian Chemical Society: (Journal)

November 1940.—PHANINDRA CHANDRA DUTTA: *Studies in the Sesquiterpene Series. Part I. Synthesis of the Triethyl Esters of C₁₅H₁₅(CO₂H)₃, obtained from Selinenes.* G. S. KASBEKAR: *Vapour Pressures of Aqueous Solutions.* SANTI RANJAN PALIT: *Physical Chemistry of Resin Solutions. Part III. Viscosity of Shellac Solutions in Mixed Solvent.* N. R. DHAR, A. K. BHATTACHARYA AND S. P. AGARWAL: *Chemical Reactivity and Light Absorption. Part IV.* PRIYADARANJAN RAY: *Estimation of Zinc in Snake Venoms by Micro-quinaldinate Method.* KESHO DASS JAIN AND J. B. JHA: *Adsorption of Mono- and Polybasic Acids by Sugar Charcoal.*

Indian Botanical Society: (Journal)

February 1941.—B. SAHNI: *Palæobotany in India. II. Progress Report for 1940.* T. EKAMBARAM AND MISS V. K. KAMALAM: *Studies in absorption and transpiration. III. Effects of hypertonic solutions on leaf turgidity.* MISS V. K. KAMALAM: *Studies in absorption and transpiration. Part IV. The effect of oxygen concentrations on absorption of water and transpiration.* A. C. JOSHI AND J. V. PANTULU: *A morphological and cytological study of Polianthes tuberosa Linn.* M. O. P. IYENGAR AND MISS B. VIMALA BAI: *Desmids from Kodaikanal, South India.* M. O. P. IYENGAR AND S. KANTHAMMA: *A note on heterothrichopsis viridis gen. et sp. nov.*

March 1941.—M. J. THIRUMALACHAR: *Tuberculosis on Uromyces Hobsoni Vize.* N. KRISHNASWAMI AND G. N. RANGASWAMI AYYANGAR: *Chromosomal alterations induced by X-rays in Bajri (Pennisetum typhoides Stapf & Hubbard).* GIRIJA P. MAJUMDAR: *Anomalous structure of the stem of Nyctanthes arbortristis L.* K. RANGASAMI: *A morphological study of the flower of Blyxa echinosperma Hook. F.* SULTAN AHMAD: *Higher fungi of the Panjab plains. III. The gasteromycetes.* M. O. P. IYENGAR AND K. R. RAMANATHAN: *On the life-history and cytology of Microdictyon tenuius (Ag.) Decsne.*

Imperial Institute of Sugar Technology,
Cawnpore: (Scientific Reports)

The recent publication (I.C.A.R. 24.38/350) by the Imperial Council of Agricultural Research, of the Scientific Reports of the Imperial Institute of Sugar Technology, India, Cawnpore, covers the period, 1st October 1936 to 31st March 1939. This consists of two parts, being the reports of the Director of the Institute and of the different sectional heads. This is the first report of the Institute after its establishment in October 1936 and covers the varied activities of the Institute in carrying out research work on problems of imminent interest to the Indian Sugar Industry and in rendering technical help to several factories when called for. The reports are of great interest to sugar technologists and industrialists.

Royal Asiatic Society of Bengal

April 7, 1941.—CHRISTOPH VON FURER-HAIMENDORF: *Seasonal Nomadism and Economics of the Chenchus of Hyderabad.* W. J. CULSHAW: *Some beliefs and customs relating to birth among the Santals.* S. L. HORA AND J. C. GUPTA: *Fish from Kalimpong Duars and Silguri Terai, North Bengal.* Notes on the physical conditions of the parts of the Kalimpong Duars and of the Siliguri Terai in which collections were made are given. "A list of 58 species is given and additions and alterations made in a list of 131 species of fish of Northern Bengal published by Messrs. Shaw and Shebbeare in 1938 are explained. Taxonomic notes were given on *Lepidocephalus guntea* (Hamilton), *Semiplotus semiplotus* (McClelland) and *Barbus (Puntius) titius* Hamilton."

Meteorological Office Colloquium, Poona:

February 18, 1941.—DR. R. ANANTHAKRISHNAN: *Recent work on the reflection of radio waves from temperature discontinuities in the troposphere.*

February 25, 1941.—DR. L. A. RAMADAS: *Studies on the movements of free particles and light objects when placed in a thermal gradient.*

Erratum

Vol. 10, No. 3, March 1941: P. 173, Note on "Chromatin Bridges in the Root Tip of Groundnut", insert the following under Fig. 1: "The fragment found along with the chromatin bridge".