

the original McLeod has a fragile glass reservoir and the rubber connecting tube which rapidly perishes permits of the leakage of air into the gauge and vacuum system and also contaminates the mercury. These defects have been eliminated and the new rubberless type of McLeod of Messrs. Edwards and Company is a real advance on anything at present available.

In the new instrument all parts in contact with mercury are of stainless steel with the exception of the actual gauge head which is easily removable for cleaning or replacement. The mercury reservoir is unbreakable and there is nothing to deteriorate or contaminate. The glass head is joined to the vertical steel tube by a standard conical joint sealed with vacuum wax and standard calibrated replacement heads can be fitted quickly. Further details regarding the gauges can be obtained from the leaflet MES. 1, recently issued by Messrs. Edwards and Company, London.

* * *

We acknowledge with thanks receipt of the following:—

"Journal of Agricultural Research," Vol. 55, Nos. 4 and 5.

"Monthly Bulletin of Agricultural Science and Practice," Vol. 28, No. 10.

"Agricultural Gazette of New South Wales," Vol. 48, No. 10.

"The Philippine Agriculturist," Vol. 26, No. 5.

"Journal of the Royal Society of Arts," Nos. 4427-30.

"Biochemical Journal," Vol. 31, No. 9.

"Biochemical Journal," Index of Authors and Subjects, Vols. 21-30.

"Journal of the Institute of Brewing," Vol. 43, No. 10.

"The Chemical Age," Vol. 38, Nos. 952-955.

"Journal of Chemical Physics," Vol. 5, No. 10.

"Berichte der Deutschen Chemischen Gesellschaft," Vol. 70, No. 10.

"Experiment Station Record," Vol. 77, No. 4.

"Experiment Station Record," Index to Vols. 61-70.

"Transactions of the Faraday Society," Vol. 33, No. 198.

"Indian Forester," Vol. 63, No. 11.

"Forschungen und Fortschritte," Vol. 13, Nos. 28-30.

"Genetics," Vol. 22, No. 5.

"Scripta Mathematica," Vol. 4, No. 4.

"Medico-surgical Suggestions," Vol. 6, No. 10.

"Mathematics Student," Vol. 5, No. 1.

"American Museum of Natural History," Vol. 40, No. 3.

"Nature," Vol. 140, Nos. 3543-46.

"Journal of Nutrition," Vol. 14, No. 4.

"Canadian Journal of Research," Vol. 15, No. 9.

"Ceylon Journal of Science," Vol. 2, Part 2, Section E.

"Science and Culture," Vol. 3, No. 4.

"Sky," Vol. 1, No. 12.

"Science Progress," Vol. 32, No. 126.

"Science Digest," Vol. 2, Nos. 4 and 5.

"Indian Trade Journal," Vol. 126, Nos. 1634, 36-37.

CATALOGUES.

Wheldon and Whesley, "Books on Botany," Part 2.

ACADEMIES AND SOCIETIES.

The Indian Academy of Sciences :

October 1937. SECTION A.—A. MOESSNER: *Einige Diophantische Probleme und Zahlentheoretische Resultate*. P. SURYAPRAKASA RAO AND T. R. SESHADRI: *Reactivity of the double bond in coumarins and related α - β unsaturated carboxyl compounds—Part IV. Action of bromine on Coumaric Acids*. The primary products are the dibromides of the bromo-compounds produced by the addition at the double bond, subsequent substitution in the nucleus, and final ring closure to yield bromo-coumarins. S. L. MALURKAR: *Ellipsoidal Harmonics of Large Orders*.

SECTION B.—M. K. SUBRAMANIAM: *Is the chromophobic part of the Golgi Apparatus and Mitochondria the Ergastoplasm?*—A discussion on the subject. A diagrammatic representation of the positions and supposed structure of the Golgi-apparatus and the mitochondria, as also of the Ergastoplasmic fibrillae is given in order to demonstrate the possibility of the chromophobic core of the golgi and mitochondria being the Ergastoplasmic fibrillae. I. FROILANO DE MELLO AND LUIS DA FONSECA: *Further notes on the Haemoparasitology of the Indian Birds*. I. FROILANO DE MELLO, VANCTEXA DESSAI AND VAMONA XELDENCAR: *On a cercarial parasite of the intestinal tract of the penta-*

tomid bug *Aspongopus obscurus* (Fabr.). The species described constitutes the second one belonging to the genus *Trimitus*, and has been named *Trimitus ramaravi*, n.sp. G. V. NARAYANA: *On the nectar secretion in the coconut flowers* (*Cocos nucifera*, Linn.).—Septal nectaries and hydathodes are, for the first time, reported in the coconut. M. S. RANDHAWA: *A Note on Aplanospores in a species of Oedogonium*.—A discussion on the spore-like bodies obovoid in shape present in a fertile species of *Oedogonium*. These bodies are found singly inside each cell and their production is not influenced by high altitude and accompanying low temperature as summarised by Handa. These bodies are not parasitic fungi. They are probably "zoospores" and it is more appropriate to call them "Aplanospores" rather than "Akinetes". RAJ NATH AND G. W. CHIPLONKER: *Palaeontological Study of Gastropods from Laki and Bagatora, Sind*.—The stratigraphical and zonal distributions of the gastropods have been reported. S. JONES: *On the Origin and Development of the Cement Glands in Etroplus maculatus* (Bloch).—The cement organs take their origin from the inner-layers of ectoderm. The gland rudiments appear when the embryo is 38 hours old, they grow in size and remain active till the fourth day after which they begin to degenerate and finally disappear by the seventh day.

The National Academy of Sciences :

October 28, 1937.—B. P. PANDE: *Prototocus himalayai*, n. sp., a Frog trematode (Lecithodendriidæ). P. B. GANGULY: On an equation for the Viscosity of Mixtures.

Indian Chemical Society :

August 1937.—S. S. BHATNAGAR, H. LESSHEIM AND MOHAN LAL KHANNA: *On the Atomic Susceptibility of Divalent Copper*. RANAJIT GHOSH: *A New Synthesis of Caronic Acid*. J. C. GHOSH, S. K. BHATTACHARYA AND M. L. NARASIMHA MURTHI: *Effect of the Simultaneous Action of Radiations of Different Frequencies on the Bromination of Cinnamic acid and Stilbene*. S. N. CHAKRAVARTI AND K. GANAPATHI: *Synthesis of o-Cyanoaldehydes. Part I*. U. P. BASU AND S. K. DAS GUPTA: *Acridine Derivatives as Antimalarials*. KUNJ BEHARI LAL AND HANS KRALL: *The Phenylthio carbamides. A Contribution to the Study of the Triad-N.C.S.—Part IV.—The Action of Aqueous Silver Nitrate on the Phenylthiocarbamide*. KUNJ BEHARI LAL AND HANS KRALL: *The Phenylthiocarbamides. A Contribution to the study of the Triad-N.C.S.—Part V.—Action of Nitrous Acid on α -Methyl phenylthiocarbamide*. J. C. CHOWDHURY AND D. H. PEACOCK: *Dihydrokurchine*. PRAFULLA KUMAR BOSE AND (MISS) ASIMA MOOKERJEE: *Natural Glucosides. Part I.—The Constitution of the Glucoside present in Murraya exotica*. P. NEOGI AND SARAJIT KUMAR NANDI: *New Compounds of Gallium. Part II*.

Botanical Society :

October 1937.—N. K. CHATTERJI: *Studies on the respiration of Eugenia Jambolana leaves with respect to their sugar, acid and catalase content*. JILLELLA VENKATESWARLU: *Structure and Development of the Embryo-sac of Pemphis acidula Forst.* B. C. KUNDU: *A New Species of Polyarthrodactylous Nitella with a review of the Allied Species*. C. BHASHYAKARLA RAO: *The Zygnemoidæ of the United Provinces, India—I*. I. BANERJI AND H. C. GANGULEE: *Spermatogenesis in Eichhornia crassipes Solms.* A. C. JOSHI, *Megasporogenesis in Alcevera Linn.* H. G.

CHAMPION: *Note on Phenological Observations to be made in India*. S. A. PARANDEKAR: *A Note on the Uredo on Jasminum malabaricum Wight*.

Association of Economic Biologists,
Coimbatore :

September 9, 1937.—E. K. JANAKI AMMAL: *Some Experimental Evidence for the Origin of the Indigenous Canes of India*.—The indigenous cultivated canes of India, the so-called *S. barberi* and *S. sinense* of Jesweit, occupy taxonomically a position intermediate between the noble cane *S. officinarum* and the wild species, *S. spontaneum*. Evidence for the origin of these canes from *S. Spontaneum* has been obtained from (1) the study of the occasional giant triploids amongst selfed progenies of *S. spontaneum* in which resemblance to *S. barberi* is very pronounced; (2) the occurrence of giant interspecific hybrids from fertilisation of unreduced gametes in one of the parents; (3) from the phenomena of heterosis met with in crosses between widely separated chromosomal types of *S. spontaneum* and (4) variation in sucrose content observed in populations of *S. spontaneum* seedlings. K. M. THOMAS: *The Relative Function of the Enzyme Pectinase and Oxalic acid in the Parasitic Fungi*.—The enzyme production of three parasitic fungi, *Botrytis Cinerea*, *Sclerotinia sclerotiorum* and *Sclerotium Rolfsii* have been studied with special reference to their capacity to produce oxalic acid.

October 1925.—J. S. PATEL: *Coconut Breeding*.—The results of the work carried out at the Agricultural Research Station, Kasargod, are given. M. C. CHERIAN AND C. K. SUBRAMANIAN: *Studies on the white Moth Borer of Sugarcane in South India*.—The life-history of the moth, symptoms of damage, extent of damage, the species of *Scripophaga* occurring in South India, natural enemies of the moth and remedial measures are described.

Meteorological Office Colloquium, Poona :

October 5, 1937.—DR. S. K. BANERJI summarised the recent work of Sir George Simpson and F. J. SCRASE on the distribution of electricity in thunder clouds.

Erratum.

Vol. VI, No. 4, October 1937, contribution entitled "The Chemical Effects of Electrical Discharge,"

Page 179, Column 2—

$$\text{for } \frac{K}{p} = \frac{k}{e} \cdot i \cdot \epsilon - \frac{pkV_0}{El} \quad \text{read } \frac{K}{p} = \frac{k}{e} \cdot i \cdot \epsilon - \frac{pkV_0}{E}$$