

SCIENTIFIC JOURNALS.

BOTANICAL GAZETTE, AUGUST.*

Synopsis of the North American Amaranthaceæ, III.: EDWIN B. ULINE and WM. L. BRAY. An enumeration of the North American species of this order, with synonymy and remarks upon the recognized species and varieties, together with descriptions of new ones. The genera *Frelichia*, *Gossypianthus*, *Guilleminia*, and *Cladothrix* are treated in this installment. *Frelichia interrupta cordata*, *Gossypianthus lanuginosus Sheldoni* and *Guilleminia densa aggregata* are described as new.

Notes from my Herbarium, III.: WALTER DEANE. In this note Mr. Deane describes his methods of mounting plants. As his herbarium is remarkable for the beauty of the specimens his advice on these matters is especially valuable.

Some Euphorbiaceæ from Guatemala: JOHN P. LOTSY. The last representatives of this order from Guatemala acquired by Capt. John Donnell Smith are here enumerated by Dr. Lotsy. *Euphorbia rubrosperma*, *E. microappendiculata*, *E. leucocephala*, *E. chamæpeplodes*, *Croton eluterioides*, *C. Guatemalensis* and *Tragia Guatemalensis* are described as new. On two double plates three of these new species are figured.

Vegetal dissemination in the genus Opuntia: J. W. TUOMEY. Professor Tuomey calls attention to the fact that the persistency with which these cactuses retain their moisture fits them for vegetal dissemination. The prostrate flat-jointed forms spread by rooting where they touch the ground and having the older parts die away, while the cylindrical erect forms have barbed spines by means of which their joints are transported. Few depend upon seed dissemination.

A study of some Anatomical Characters of North American Gramineæ: TH. HOLM. In this paper the author concludes the examination of the species of *Leersia* and enumerates the anatomical characters of the leaves by which they can be discriminated.

Daniel Cady Eaton: GEORGE E. DAVENPORT. This is a short but appreciative biographical sketch of the late Professor Eaton, by one who has long been associated with him in the critical

study of the ferns. A portrait accompanies the sketch.

The Nomenclature Question: A Further Discussion of the Madison Rules: B. L. ROBINSON. Dr. Robinson replies to Mr. Coville's criticisms in the July number and again vigorously attacks the doctrine of 'the rejection of the homonyms.'

Among *Briefer Articles* is one describing a new genus of Umbelliferæ from Mexico, which the authors, Dr. John M. Coulter and Mr. J. N. Rose, dedicate to Mr. Walter Deane under the name of *Deanea*, with two species, *D. nudicaulis* and *D. tuberosa*; and one by Dr. Trelease, asking for information in regard to the distribution of our species of pignuts. An *Editorial* vigorously defends the *Gazette* against the charge, by an anonymous correspondent of the Journal of Botany, of suppressing free discussion of the nomenclature question. Under *Current Literature* Mr. Charles Robertson reviews MacLeod's 'Fertilization of Flanders Flowers,' and the editors notice a new issue in Ostwald's 'Klassiker der exakten Wissenschaften.' Two pages of *Notes and News* conclude the number.

PSYCHE, SEPTEMBER.

W. S. BLATCHLEY continues his account of the winter insects of Vigo county, Ind., adding 26 more species of Hepteroptera. G. B. King finds from repeated observations of frozen nests that *Formica obscuripes* does not retreat into the lower parts of the nest in winter, but remains practically in all parts excepting close to the surface, though, of course, wholly inactive; some of the parasites are noticed. In a supplement, T. D. A. Cockerell describes a couple of new bees and some new Coccidæ and adds a note on a Mutillid which 'as it runs over the ground . . . looks extremely like a bit of thistle down blown by a gentle breeze.'

NEW BOOKS.

Tables for the Determination of Common Minerals.

W. O. CROSBY. Third edition rewritten and enlarged. Boston, The Author. 1895. Pp. 106.

Fishes, Living and Fossil. Bashford Dean. Columbia University Biological Series III. New York, Macmillan & Co. 1895. Pp. xiv+300.

*Issued August 15, 1895. 40 pp., 5 pl.