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an art of plant therapy, if this is ever to be possible or worth the establishment.

The Flora of Tennessee.¹—No living botanist is as familiar with the interesting plants of Tennessee as the venerable Dr. Gattinger, who, like the late Dr. Mohr of Alabama, has spent many years in field study and now brings together the results of his work. Tennessee is a state of diversified topography, and the systematic list is preceded by a discussion of the factors which influence plant distribution. Like Dr. Mohr, Dr. Gattinger adapts himself to the Neoamerican practices in nomenclature and to the phylogenetic classification of the Germans, though not without a word of protest. Whether or not he be followed in his philosophic ideas, they contain the kernel of much that is good.

The Grasses of Iowa.²—In the prefatory note to this book Professor Calvin, the state geologist, tells us that the law creating the Iowa Geological Survey provides for the publication of bulletins on subjects of economic interest relating to the natural history of the state, and this consideration of one of the most important economic groups of plants forms the first of such bulletins. The topics treated are: the general structure and physiological characters of Gramineæ; purity and vitality of grass seed; cereals; fungus and bacterial diseases of grasses; the pastures and meadows of Iowa; weeds of meadows and pastures; chemistry of foods, and feeding; and lawns and lawn-making in the state. Professors Pammel and Weems are well equipped by training and opportunity for the consideration of these topics, and it is understood that the systematic discussion of the group, for which Professor Lamson-Scribner will be largely responsible, is to constitute a second volume complementary to the one now used.

Chlorophyll.³—No. 10 of the biologic series of *Scientia* presents in a manner not too technical for the layman the main facts concerning the chlorophyll function in plants as carried on under various external conditions. The structure, as well as the function, undergoes adaptive modifications in response to these conditions, and the

¹ Gattinger, Augustine. *The Flora of Tennessee, and a Philosophy of Botany*. Nashville, 1901.

² Pammel, L. H., Weems, J. B., and Lamson-Scribner, F. *The Grasses of Iowa*. Des Moines, 1901. 525 pp., 220 ff.

³ Griffon, Ed. *L'assimilation chlorophyllienne et la structure des plantes*, *Scientia*, Biologie, No. 10. Georges Carré et C. Naud, Éditeurs. Paris.