losa Anderss.), *Premna subcapitata* Rehder, *P. urticifolia* Rehder, *Aster hirselioides* Schneider, and *A. polia* Schneider.

Numerical lists and indexes occupy over 200 pp. at the end of the work. Trelease.

Shreve, F., The physical control of vegetation in rainforest and desert mountain. (Plant World. XX. p. 135—141. May 1917.)

The factors which underlie the topographic control of the vegetation in the Blue Mountains of Jamaica and the Santa Catalina Mountains of Arizona are diametrically opposed. The strongest single factor involved in determining the habital distribution of plants in the Blue Mountains is atmospheric humidity but this is not a differential factor in the desert mountains of Arizona.

W. B. McDougall.

Smith, C. P., Studies in the Genus *Lupinus*. II. The *Microcarpi*, exclusive of *Lupinus densiflorus*. (Bull. Torrey Bot. Club. XLV. p. 1—22. f. 1—16. Jan. 1918.)

Contains as new: *Lupinus microcarpus ruber* (*L. ruber* Heller), *L. horizontalis platypetalus, L. subvexus nigrescens, L. subvexus transmontanus, L. subvexus fluviatilis, L. subvexus Leibergii, L. subvexus insularis, L. subvexus phoeniceus, L. subvexus albilanatus,* and *L. subvexus Wilkesii.* Trelease.

Smith, C. P., Studies in the Genus *Lupinus*. III. *Lupinus densiflorus*. (Bull. Torrey Bot. Club. XLV. p. 167—202. f. 17—42. May 1918.)

Contains, as new, the following varieties of *Lupinus densiflorus*: *stenopetalus, perfistulosus, Menziesii* (*L. Menziesii* Ag.), *latilabrus, Tracyi, glareosus* (*L. glareosus* Elmer), *lacteus* (*L. lacteus* Kell.), *sublanatus, McGregori, altus, vastiticola, versabilis, latiderus, Dudleyi, persecundus, palustris* (*L. palustris* Kell.), *stanfordianus, crinitus* Eastwood, *curvicarinus, Reedii, trichocalyx, barbatissimus, austrocollium,* and *scopulorum,* — all attributable to the author except in the one case noted. Trelease.

Standley, P. C., Six new species of trees and shrubs from Mexico. (Proc. Biol. Soc. Washington. XXXI. p. 131—134. Nov. 29, 1918.)

Vauquelinia potosina Painter, *V. australis, V. pauciflora, Odostemon longipes, O. quinquefolius,* and *Deutzia occidentalis,* — all but the first ascribable to the author of the paper. Trelease.

Personalnachricht.

Ernannt: Prof. Dr. **F. Bucholtz,** ehemals Prof. an der Techn. Hochschule zu Riga, zum Prof. der Botanik und Director des Botanischen Gartens an der Universität Dorpat.

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