A. MODOCENSE. Allied to the last, the somewhat larger leaves apparently as constantly 5-lobed and with lobes radiant rather than pointing forward, the surface not wholly glabrous, some soft hairs appearing along the veins in some: flowers rather small, sepals, petals and even the anthers green, or greenish-white; sepals mostly (all the outer ones) merely oval, little exceeding the whitish petals, both sepals and petals sparingly hairy; fruit unknown.

Represented by only some flowering branches, with young foliage, collected near the Warm Springs, Modoc Co., California, 4 June, 1892, by M. S. Baker and Frank Nutting. While the leaves here are almost those of A. Macounii the flowers are very notably different; for in both that and A. circinatum the sepals are narrow, elongated to twice or thrice the length of the petals, and are of a dark red-purple. In A. Modocense they are not only green, but very short for those of any maple at all.

A NEW STUDY OF MICROSERIS.

Ahough the type of this genus is Chilian, the species are most numerous in California. My first critical study of them was made in San Francisco twenty years ago. I proposed then the two new species, M. attenuata, and acuminata, both of which have since obtained universal recognition.

The researches of three more seasons carried on in that field led to the expression of views that were published in 1886, according to which, out of the heterogenous "Microseris" of Gray's Synoptical Flora, Calais of De Candolle, and Scorzonella of Nuttall were restored, and two new genera, Ptilocalais and Nothocalais were proposed; while for the genuine Microseris, the new discovery was made that its species fell into two natural groups, according as the paleæ of the pappus are triangular and plane, or rounded and cymbiform. In this paper I added but

¹ Bull. Calif. Acad. ii, 41-55.

from Vancouver Island, distributed by Mr. Macoun, may be the same, but I have seen no specimens in fruit.

The species next following may be regarded as segregates of *M. attenuata*, though the plants were not known at the time that species was published, and consequently have not affected the diagnosis of it; but several of them since have been referred to it by me as manuscript labels show. They are all at agreement with it as to the attenuation of the achene, which is only partly filled by the seed, the upper portion of the pericarp being vacant.

M. CALLICARPHA. Leaves pinnatifid but not very deeply so, the divisions from triangular to subulate-lanceolate or subfalcate: involucres oval: achenes scarcely 3 lines long, dark chest-nut-brown, the ribs sharply serrulate-scabrous, a few of the outer villous; pappus about 4 lines long, the oval and distinctly cymbiform palea dull-brownish, white-flecked with the usual minute appressed scaberulous hair, but not in the least villous, the aun of less than twice the length of the palea.

Known to me only in a specimen preserved in my herbarium, taken out of the Botanic Garden at Berkeley in 1894, and named *M. attenuata*. I can not now recall from what part of California the seeds were derived.

M. PICTA. Leaves narrowly lanceolate, entire, or some with a few coarse teeth or short-lobes: involucres oblong, ½ inch long: achenes 3 lines long, slender-fusiform, rather abruptly narrowed under the pappus and much more than half filled by the seed, white, but with numerous large oblong-linear flecks of black, the ribs very sharply serrulate-scabrous, a few of the outer very villous; pappus 4½ lines long, the palea cymbiform sordid-brown, oblong-lanceolate, the awn one and a half times as long.

Salinas Valley, Monterey Co., Calif., May, 1889, E. K. Abbott; the type in my own herbarium.

M. LEIOSPERMA. Large; the many scapes stout, decumbent: leaves rather coarsely pinnate-parted: involucres very many-