VOLUME X. February, 1901. NUMBER 98.

THE

West American Scientist

A popular monthly review and record for the Pacific Coast.
Official organ San Diego Society of Natural History.
Established 1884.

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San Diego, California:
Number 365 Twenty-first street.
Charles Russell Orcutt Editor and Publisher.

Price 10 cents; $1 a year; $10 for Life.
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LOBELIACEAE.

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DOWNINGIA PULCHELLA Torr.
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Genus GITHOPSIS Nuttall.
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GITHOPSIS SPECULARIOIDES Nutt.
Genus SPECULARIA Helser.
SPECULARIA BIFLORA A. Gray.
SPECULARIA PERFOLIATA A. D. C.

ERICACEAE.

Genus ARBUTUS Turraford.
ARBUTUS MENZIESII Pursh. Madrone. A
surprisingly beautiful tree, with white flowers and orange-colored berries. Sometimes
grows 100 feet high.

Genus ARCTOSTAPHYLOS Adanson.
§Uva-ursi G syn fl 2 27; Daphnidostaphylys Klotsch.
A UVA-URSI L
Bear berry—not reaching So. Calif.
ARCTOSTAPHYLOS TOMETOSA Lindl.
Wooly Manzanita.
da 10
ARCTOSTAPHYLOS MANZANITA Parry.
The common Manzanita of California. The berries make excellent sauce, and the finest
quality of vinegar; much eaten by Indians.
Manzanita is a Spanish name, t.e. diminutive of manza (apple), hence means a "little apple." The name is
generally applied to all the species of Arctostaphylos, and a writer in Meehan's Monthly (3:85) uses the name Ar-
batus Menziesii. The manzanita once so common on the mesas back of San Diego, is Arctostaphylos bicolor. The
shrub to which the name more especially belongs in California, and which sometimes becomes a small tree, is that
named Arctostaphylos manzanita by Dr. Charles Christopher Parry—the A. pungens of the earlier writers on
California botany. This manzanita is common from Mexico to Oregon, through the foothills and mountains, in
dry, rocky soil. The fruit is a dull red, mealy, and pleasantly sub-acid, well-
named by the Mexicans the "little apple," though botanically a near rela-
tive of the cranberry instead of the apple. The Indians gather the fruit in September in great quantities for food,
and it is eaten freely by animals and birds. It makes excellent jelly, and
the finest flavored vinegar, as clear as water, may be prepared from the fruit.
The numerous other varieties of manzanitas all produce more or less simi-
lar edible fruit, and are all mostly small, straggly evergreen shrubs, graceful in their own peculiar way, and
bearing in earliest spring time a profusion of lovely white blossoms, some-
times blushing a rosy red in a snow-
storm.

ARCTOSTAPHYLOS PRINGLEI Parry.
"Young branches, including the petioles and margins of the leaves, copiously cli-
late-pubescent, with mixed glandular hairs; leaves short, petiolate, glaucous, minutely
net-veined, with conspicuous mid-nerves, ovate to broadly subcordate, abruptly
short mucronate; inflorescence closely articulate from a thickened base, inter-
mixed with bud-scales, indicating a late flowering per od. racemose branches slen-
der, thickly covered a 3 well as the bracts, pedicels and calyx, with ciliate and
glandular hairs, bracts lanceolate membranaceous, petaloid, deciduous, bracteoles
linear nearly ¼ as long, pedicels slender, divaricate, 4-5 times as long as the bracts,
calyx ciliate-glandular, corolla smooth, broadly arcuate; ovary and fr. glandu-
ii. 194 (Nov. 2, 1887).

Variety? drupacea Parry Ca ac b 2 495;
— Differing from the above only in the
completely consolidated stone, deeply
sculptured, a usually with a conspicuous
r-sided furrow. Mts east of San Diego;
Or 543; S 1886, distributed as A glauca."
§Xvlococcus G
ARCTOSTAPHYLOS GLAUCATA Lindl. The
great-berried Manzanita.

Py Dov ac pr 4 34; Ca ac b 2 495; da 10
ARCTOSTAPHYLOS BICOLOR A. Gray.
Densely branched irregular shrub, 3-5
ft high, with brown shreddy bark; leaves
dull green above, whitish tomentose be-
neath; fls in condensed racemes, w with
CALOCHORTUS VENUSTUS Doug.

CALOCHORTUS PULCHELLUS Doug.
a pinkish tinge; fr often persistent until 2d fl'ing in F, smooth & shining, deep p-
red, 4½ lines in diameter; copious and
rather dense granular pulp; putamen
smooth externally, solid; 5-celled, 1 or
more abortive. Or s j Py Dav ac pr 4
34; Xylococcus bicolor Nutt, Py Ca ac b
2 496. Arc clevelandi G?

ARCTOSTAPHYLOS PARRYANA Lnn.

"A much branched shrub, 3-5' high;
foliage coriaceous, bright green; blade
ovate or oblong ½-1' long, acute or ob-
tuse, entire, conspicuously impressed
veiny; petioles slender, ½-3' long: in-
florescence paniculate coriaceous, the
pedicels & bracteoles w-tomentose;
bracts foliaceous, narrow; bracteoles 2
or 3 lines long, deltoid, with callous tips;
segments of the rotate calyx obtuse: fr
ovate or globose, ¾-1½' long, y'ish; ex-
ocarp smooth & glabrous, rather thin;
deciduous from 5-7 firmly united bony
carpsel, apiculate at each end, & marked
with longitudinal ridges corresponding
with the back of the carpels; seeds 2 lin.
long, incurved, w. Tehachapi mts."—
Lemmon pitt 2 68

§Comarostaphylis G:—fr warty, puta-
men solid, 5-celled.

A ARGUTA Zucc. v. diversifolia Parry.

"Shrub 6-15 ft'high; stems 1-3 inches
in diameter, with light gray bark slight-
ly furrowed, on the upper branches
reddy, & on the young, growing shoots
tomentose; leaves varying greatly in
size & form, according to position or sea-
son of growth; in young, vigorous off-
shoots or suckers, broadly lanceolate,
3½' long by 1½' broad. smooth on both
sides, reticulate, scarcely at all revolute;
on the upper & fl'ing branches, narrowly
lanceolate, strongly revolute, & tomen-
tose beneath, in all more or less irregu-
larly serrate, with mucronate cartilagin-
ous teeth & short petioles. Inflores-
cence racemose, from the axils of the upper
terminal leaves, secund & horizontal, ra-
chis, bracts, pedicels, and calyx long to-
mentose; bracts about ½ as long as the
pedicels, corolla 3 lines long, stamens 10
(occasionally 8), filaments bearded be-
low, anther appendages about as long as
the anthers; style shortly exserted; ova-
ry hairy hispid above. Fr small, 2 lines
broad, warty, with a solid 5-celled puta-
men, cells more or less abortive. Needs
comparison with the Mexicam type,
which probably includes several pub-
lished species."—Parry Dav ac pr 4 35.

Or s j A polifolia B-W non H+K.

A colored portrait of this in Datos pa-
ra la materia medica Mexicana, (pt 3 11)
well represents our shrub. It enjoys in
m the names madronyo borracho, and
garambullo—the latter name in j is ap-
pied to Cereus sargentianus—and is in
medicinal repute.

§Micrococcus Py Dav ac pr 4 36.—Fr
with thin pericarp, without meaty pulp,
wrinkled at maturity; 4 or 5 nutlets eas-
ily separating—in 2 divisions.

*Pericarp persistent, nutlets 2-celled.

ARCTOSTAPHYLOS OPPOSITIFOLIA P

"Shrub 3-10' high, densely branched
above, more or less naked below; stems
1-3' in diameter, with light greenish or
gray bark smooth or with loose, shred-
dy fibers on the upper branches, young
shoots minutely tomentose; leaves oppo-
site or ternately whorled, narrowly lan-
ceolate, entire, revolute, 1-2' long, 2-3''
wide, light green above, minutely to-
mentose beneath, with a prominent mid-
nerve, the narrow blade gradually taper-
ing to a short or obsolete petiole. Infl-
orescence paniculate, the lower floral
branches in the axils of the upper oppo-
site leaves, which higher up pass gradu-
ally into deltoid, more or less acuminate
bracts, disposed in whorls of 3 or less at
regular intervals, each bract subtending
a branch or pedicel, & decurrent as a
ridge down the rachis; pedicels 3 or 4
Established 1881.

THE WEST AMERICAN SCIENTIST.
Price 10c a copy; $1 a year; $10 for life.
Charles Russell Orcutt, Editor.
Number 362 Twenty-first Street,
San Diego, California, U. S. A.

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Just a thought to give thee pleasure,
Just a hope to gild the way,
Just a word to speak of Jesus,
Do you love Him as you may?