Silver City N. M. Feb. 20.

Dear Doctor: Your post-card Feb 28 has been received. I shall stay in Silver City, and botanize herculeanly, the whole of the coming season. Your party must not fail to make me a visit! Indeed, it will not be a mile out of your way, as I infer from what Dr. Parry wrote me, of the plan of your movements.

Juniperus pachyphloea often supports the Phoradendron juniperinum, and has led many collectors to the plant in a mystery. I shall watch for the flower.

Have you got out any new mimeographs in the last year or two? Have sun more.

E. L. Greene.

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POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

U.S. POSTAGE ONE CENT

SILVER CITY N.M. FEB 21

ST. LOUIS MO. FEB 9 8 9 A.M.

Dr. G. Engelmann
Locust Street
St. Louis
Missouri

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Rec April 25
Ans same day

Silver City, New Mexico
April 12. 1877.

My Dear Doctor;

Your favor of the 14th ult sent to Tucson has been there, and has come back over 215 miles of its journey to find me in New Mexico. Silver City is in the south-western corner of the territory. It is probable that I shall remain here during the spring and summer. I have not a book or a paper on botany with me and so I can do nothing at all in the way of determining for myself what the things are which I find here. but so long as I remain I shall do my best at making specimens in as complete shape as I can.

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Ever since I arrived at Apache Pass in Eastern Arizona I have been ready to contend that my little Cañon City oak is not a form of Q. undulata. At the point above named I fell in with abundance of what to me appears to be precisely the same bush. It was in flower at the Pass when I was there two weeks ago, and looked just as in Colorado. But it exists there not only as the little bush, but in larger forms some of the trees attaining the height of 30 ft with a trunk 2 ft. through, and in that larger form i.e. as a tree it stands a most decided black oak. Acorns very small, acorns with kernel not sweet. But the thing is sufficiently common right here about Silver City in all shapes and will be in flower in a week or two, as is also

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what I suppose is the same white oak which I sent you winter twigs of from S. Cal. Can you send me by mail at once another copy of your newspaper on oaks? I would have brought my gun along but had little idea of stopping for any length of time in any of these origins when I set out to come across this way. Besides if I began putting into my little valise botanical papers I should not have known when to stop. This is my apology for asking for the paper. It will if I can get it, aid me much in my efforts to investigate here. I have seen at Silver City the finest Juniper ever I have met with. It has the bark of a white oak in appearance grows thirty or forty feet high and I measured one trunk that was more than fifteen

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feet in circumference, and they tell me I may find much larger specimens of the species than that. The berries are large green & scrutish. Is this the one you mention on the outside of your letter (I do not make out the specific name)? If it is I can easily send you any desired quantity of berries by mail, trusting that it is the same. I will gather seeds in a day or two so that they shall be ready for mailing in case you tell me it is the one you want.

The white oak trunk is a most remarkable characteristic. The mimicry is complete.

As Ever Yours

E. L. Greene.

P.S. This will be a fine point from which to study Opuntiae too great altitude: 4000-5000 ft.

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Rec May 9th
Ans same day P.E.

Silver City, New Mexico
April 27. 1877.

Dear Dr. Engelmann:

I mail herewith some specimens of the evergreen black-oak which I mentioned in my letter of the 12th inst. They were taken from a number of trees and bushes of different sizes growing on one of the hill-sides near by. You will perceive that the tree sheds its leaves at the time of flowering. Whether my canon City bush, which I so strongly suspect of being identical with this, did so or not I can not say. I hope you will have time to compare the specimens and send me a postal card with an opinion. I hear of a deciduous white oak in this region; (Q. undulata?) but have not seen it yet. The evergreen white oak associated with the one I now send is not yet quite in flower. You shall have specimens of that too as soon as I can find them; and then

is a probability that I will be
to get you printing specimens
of all. This I now send will
be no. 1118. of my distributed
collection if I do distribute sets
again at the end of the season.

As Ever Yours

E. L. Greene.

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Rec May 28
Ans Sunday

Silver City, N. M.
May 9, 1877.

Dear Doctor:

I received a letter from you yesterday with no date asking for specimens of the Juniperus. I will enclose two twigs thereof. One of them has last years fruit and one has the young unformed of this season. They are taken from the same branch. The old fruit is yet firmly persistent on all the trees, and I have never seen a juniper which bore such an abundance of berries. It can not possibly be J. californicus. That has the fibrous bark common to most species of the genus. This has bark very light colored and broken by circumferential crackings (if such a phrase may have meaning). So as to look just like the bark of an oak tree – nothing fibrous about it. But you should have a piece of the wood with bark on if the small will carry it. We have another juniperus here with fibrous bark and purple berries; but no fruit is now to be found. This is called cedar; the other I send you twigs of

is called juniper by the woods men. Thus they distinguish them. I have seen no Conifers but the P. edulis & P. ponderosa. But on those Mogollon Mts & the Mimbres range which I see in the north & north west, with snow on them must have other species; yet how can I get them? No mean claims go out of town at all - alone, and no party of prospectors will armed venture into those mountains now. The Apaches are everywhere this Spring. I have still more to say about oaks. I have now seen the broad-deeply lobed-leaved white oak. It is not yet in flower or leaf: looks as if it might be Q. macrocarpa but is of course not that species, though perfectly deciduous and a white-oak. Now about then & so by. Dasylirion

What genus bearing those leaves of which sections are enclosed. Not Yuccas nor Agaves! Very common here, yet I know nothing about what they are called.

As ever Yours, E. L. Greene

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Rec'd May 23?
Ans Sunday

[illegible]

Mr. Asa Gray.

[illegible]

[illegible] yesterday after I had
[illegible] letter, I [illegible] to
[illegible] make the L. obconeifolia. Dom.
which I said [illegible] of Mme S. Cal. and
which I now enclose a flowering twig from
[illegible] (P. Mt. Cal.) [illegible]
L. undulata, but I do not believe that
conclusion will hold. The rocky
Mt. bush is a bush, this a tree
with a trunk 1°-30 in diameter.
The leaves of the Rocky Mt. bush
turn red in autumn and fall off.
These, they are green and persistent
until the time of flowering in Spring.
But still less can this be specifically
identical with the large deciduous
white oak of the region, which also
[illegible] [illegible] is made out [illegible]
[illegible] undulata in gross
[illegible]. The bark and wood are
very different. This deciduous one

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in our "scrub" here. The young or smaller trees are slender straight and erect. I find no flower buds on trees under twenty feet high.

Q. oblongifolia Nuttall does bear flowers at all sizes, and by the way has leaves very variable as to size & division. as I will show you specimens by & by.

No. 1118. I suppose will be Q. Emoryi Nuttall's doubt. You ask why I call it a black-oak. I answer because I never saw an oak with blacker trunk than it has, or with more decidedly black-oak-wood. It is always clearly distinguishable from Q. oblongifolia by that mark alone, as well as by its dark-green shining foliage.

It is often two feet in diameter near the ground and 30 ft high.

Yours as always

S. L. Greene.

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Rec June 19
Ans — 22

Silver City. N. Mexico
June 5, 1877.

Dear Doctor;

I sent you on yesterday a postal card to tell you there are no traces of biennial fruiting in Q. Emoryi at this locality. I also sent a box of fresh specimens of the Juniper some of which will I trust prove to you that the fruit is two years in ripening i.e. the branches showing last year's unripe berries below and this year's ¼ grown ones above the others. This afternoon I am going out to get a section of the wood and bark of this species to send you. I would not say it resembled a "pine" as to its bark, but a white oak, as I have said before, and as you will see for yourself. It is a "big thing". I measured one at three

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feet from the ground and found its circumference fifteen feet and three inches! A very useful tree in this country. I send now some flowering specimens of the oak which I am willing should go with Q. undulata. They are from two different trees, but both trees indeed. The bushes are all over the hills, and the trees also; both fruit bearing and variable as to outline and margin of leaf; but there are no large leaves here and no lobed-leaves! The bark of this when it gets to be a tree is closer and smooth (from oak) and of a very light ashy gray. Its habit as a tree is low, with very numerous fine branches, making a round or flattened very compact head. Now the broad-lobed-leaved tree is only a tree; instead of a fine light colored outer bark, it-

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has coarse bark the most dark-looking of any white oak known to me, and its branches are few and large. Altogether it closely resembles the Q. macrocarpa of Wisconsin. I am very confident if you could see the two trees you would never consent for both to go into Q. undulata. But I will see if I can furnish you with the material that must convince you. The flowers of the deciduous broad-leaved one known, must have escaped me. I ought to have gone up the mountains after them three weeks ago, but had no opportunity.

There is one Agave here, and I guess only one. I will look for Arcanthobrium. No Gymnocus by G. angustifolia, and G. baccata. The other Juniperus is now showing its young fruit.

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I will send a box of that before long. You need not take the trouble of enclosing postage stamps. I am poor to be sure, and bound to continue so, as long as I persist in tearing about these western wilds instead of accepting advancement in the Church. But I am happier here. Your letters are highly prized, and these little sendings of mine to you run up no considerable sums of postage.

As ever sincerely Yours

Edwd L. Greene.

Dr. G. Engelmann
St. Louis, Mo.

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Rec June 30

Ans same day

Silver City, N. M.
June 17, 1877.

My Dear Doctor:-

Is this Juniper hypsistenca? I suppose it must be. I found it on the mountains near Georgetown, Grant Co., N. M. Unhappily I could find but two small bushes, neither of which bore any trace of flower or fruit. The biennially-fruiting Juniperus is now in fine state. Trees loaded with last years berries have none of this years. Those with few of last years have many of this years growth, and those with a moderate load of last years have an equal number of this years; the latter now about one third grown.

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Are there other biennial-fruited Junipers?

Yours sincerely
Edwd L. Greene.

To Dr. G. Engelmann.

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Rec Aug 1st 15
Ans — / 26.2.45

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[illegible]

[illegible] Not to mention the

[illegible] (for in that respect they [illegible] perfect)

the leaves of the [illegible] are [illegible] small and not only [illegible]

[illegible] but also [illegible] and [illegible]

[illegible] of the flowers in [illegible].

The [illegible] leaves are [illegible] [illegible]

[illegible] and the wood of this

[illegible]

[illegible] a [illegible]. But the [illegible]

[illegible]

[illegible] the [illegible] [illegible]

[illegible] that the [illegible]

[illegible]

[illegible] [illegible] [illegible]

[illegible]

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[illegible]

[illegible] Lepidoptera [illegible]. [illegible] while, and see what [illegible] here then! [illegible] not see [illegible] undulata, though [illegible] [illegible] and [illegible] right & [illegible].

L. hyperbolica is European! [illegible] [illegible] [illegible] these show it [illegible] [illegible] [illegible]

[illegible]

[illegible] very little of it there. I thought it
[illegible] to be small there, but it is not; rather
[illegible] very robustness. It is of different
appearance from that there.
[illegible] did not join the great party! I also
[illegible] seeing them. They were at
[illegible] Pot-Oven, the soldiers will now be
[illegible] Farewell, etc.

[illegible]

[illegible]

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Rec'd March 19th

Beloit, Wis. March 18 1878.

My Dear Doctor:

Your postal of Jan 8th came to me from Cresswell a week ago. I had hoped to see you long before this, but can not yet say how soon I may get to St. Louis. Am very anxious to see the "new publications." If you have not yet mailed them to Cresswell please send copies at once to 58 5th Avenue Chicago. Am lecturing on Arizona! Shall not go back westward before midsummer.

E. L. Greene

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POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

U.S. POSTAGE ONE CENT

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Geo. Engelmann M. D.

3003 Locust St.

St. Louis, Mo.

RECEIVED MAY 19 1897 ST. LOUIS, MO.

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Herbarium of Harry N. Patterson.

OQUAWKA, Henderson Co., Ills., Aug 18, 1878.

Dear Doctor:

I perceive I shall not be able to make St. Louis in time for the meeting of the Association. But I hasten at this late hour to acknowledge the receipt of your kind invitation, and to express the hope I entertain of being able to visit you later in the season, when I can perhaps have you more to myself than could be when there are so many others of our fraternity likely to be sitting at the feet of our Gamaliel! Very sincerely yours

Edwd L. Greene.

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POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

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GEORGE ENGELMANN PAPERS

ST. LOUIS, MO.
AUG
20
10 A.M.
REC'D

Dr. Geo. Engelmann
3003 Locust Street
St. Louis Mo.

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Rec Jan 30

Albuquerque, New Mex.
Jan. 25, 1880.

Dear Dr. Engelmann:—

What is this which I have found now on *juniperus*? I am wondering if it will be the *Phoradendron juniperinum*. It is quite abundant between Las Vegas and Santa Fé: the globose masses, commonly a foot in diameter, being very conspicuous on old trees. I send a branch of the species it inhabits, which I take to be the var. *monosperma* of *J. occidentalis*, but I might err in this conjecture.

J. Virginiana (good sized trees) occurs sparingly in the same region; and in a single instance I saw a large tree of this species well burdened with the

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perennials; so that it does not confine itself wholly to the other species.
I do not know as this sending will find you at St. Louis. The last I heard of you you were East.
I lost my collections of 1877.— Found them, this last fall (when I was at home and ready to distribute them) a blackened mass of mouldy rubbish.
I shall collect this Spring on the Gila, for a month or so. Please send me down a poster to Fort Bayard, N. Mex.
As Always
Edw. L. Greene.

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Rec May 21st
Ans " " Sec Sig A.C.

Silver City, New Mex. May 11, 1880

My Dear Doctor:

I had an idea that some branchlet would come to you at last.

I had been out, one morning for Prof. Sargent, and came in with the branch and a cone, and, as I was writing to him, sent it that way, perhaps he could tell me, at a venture what it was. I guess it proved to be the P. flexilis, only the cones are much too large for the P. flexilis, you remember. Perhaps I ought to have it, so I send you what I have in hopes of enfranchisement.

Send you, to day, some fresh specimens of Sphaeralcea.

[illegible]

[illegible] for the [illegible] [illegible]
[illegible], [illegible] [illegible] [illegible] [illegible]
[illegible] of the author, [illegible]
specimens, [illegible], [illegible] [illegible]
[illegible] that they are [illegible]
[illegible] nature, and also that they
are [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] [illegible]
? do not [illegible] [illegible] you will [illegible]
[illegible] the thing; but [illegible] and the
specimens [illegible], in [illegible] that
you will [illegible] [illegible] [illegible]
get [illegible], and possible, with
flowers [illegible] to [illegible] [illegible] [illegible] [illegible]
from specimens in [illegible], which
if [illegible] flowers [illegible] observed are
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] & [illegible] any fruit is [illegible] [illegible]
[illegible] when the authors
[illegible] [illegible] [illegible] [illegible] [illegible] &
[illegible] [illegible] with the other [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

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[illegible] shafts of the [illegible]
[illegible] perpendicular shaft [illegible]
[illegible] a foot in expansion.
Does it flower?
I should consider the flowers of the
species the same; they to day opened
[illegible] [illegible] [illegible] [illegible]
[illegible] earlier than in January
that it flowers. The letter
in question was in full flower.
L. Jacobii though growing
always at higher altitude by
a thousand or two feet
flowers about ten days earlier.
Does Jacobii vary from the
type but from the influence and escape in
the mean-locality is to such
distance. And I have not found
it yet anywhere else.
Just note I was to search: not
observed that that species
biennial provided.
In the Magellan Sts, 50 miles

[illegible] and [illegible] Sherwood
& Salem, a new Pack rat which
is D. hypophaea, which, from its
handsome color like through exposure
leaves, we will have to call D.
albifolia.

In Stron mountains Co, the
Jeniferus recidentalis, [illegible]
is replaced by what I take to be
something new, & call D. Mogollonica
having hairs lasting, with like
[illegible] of D. pachyphaea, but
one very large globose seed only.
The habit of the tree is quite similar
that of D. pachyphaea, and
the bark is far as possible from
being like it, being very strongly
[illegible] that of any other
here [illegible] D. pachyphaea
grows with it, but D. occidentalis
does not occur there.

I expect to start upon a splendid botanical
expedition to Great Santa Fe, to carry in
the year, & [illegible] with a party of mine

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2

Sunitas. My intention was to
leave again this week, on
my own hook: and proposed to
make, and bring back specimens
of the trees and plants which I
would now be likely to find in
flower. But, alas, the Indians!
A frightful description of the prospectors
who were in the Mogollons also
and at work two weeks ago, are
now in their graves. Nevertheless
others are going. Next week, a
party of a dozen or more will
go from here, and I am likely
to accompany them: though
I shall not dare to range
about, any from camp, very
truly.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

(I have fair specimens, fact - I could
find after hours & days of careful
search) of a new Asclepias
which belongs near your A. involucrata
though the floral stamens are
remarkably different. Yes into

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before the distributing time comes
full, some body else should carry
over specimens of its flora
one will be lost it humanity;
and on its account will pass
the letter registered
It is a fine little acquisition
which I unlooked entirely
when I saw him two years since.
I am dissatisfied that I can not
find a dozen specimens mustered
I a meager form: one for you
one for Dr. Gray, one for Mr. T.
one for myself.
Yes you have a long letter.
I think I acknowledged the
receipt of your papers when
the came.
In haste for Gray
Edw. L. Greene.

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Rec June 12
Ans [illegible]

Silver City, New Mexico
June 3. 1880

Dear Director,

[illegible] thanks for a long letter. I also see from the fragments enclosed, which I brought in to day, that our Phoradendron has not yet flowered. Single [illegible] seem [illegible] to [illegible] reference [illegible]

I [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible]

[illegible]

[illegible]

When I thought "I've noticed this according in an order"

I turned and turning the
[illegible] zwei gray & [illegible] Bur-
[illegible] [illegible] and [illegible]
"It would be called L. [illegible]".
[illegible] [illegible]
[illegible] that the ~~[illegible]~~
[illegible] transition [illegible]
[illegible] later in the day I came to
[illegible] it [illegible]
[illegible] [illegible] drawing [illegible]
the black oak bark on [illegible]
along the branchlets [illegible]
[illegible] [illegible] [illegible]
[illegible] which makes me [illegible]
[illegible] that [illegible] [illegible]
[illegible] [illegible] [illegible]
and feeling sure I was mortal
[illegible] fell that I would visit
the place in time & [illegible] [illegible]
[illegible] I did not, but
[illegible] back [illegible] a [illegible].
I had hardly got back [illegible]

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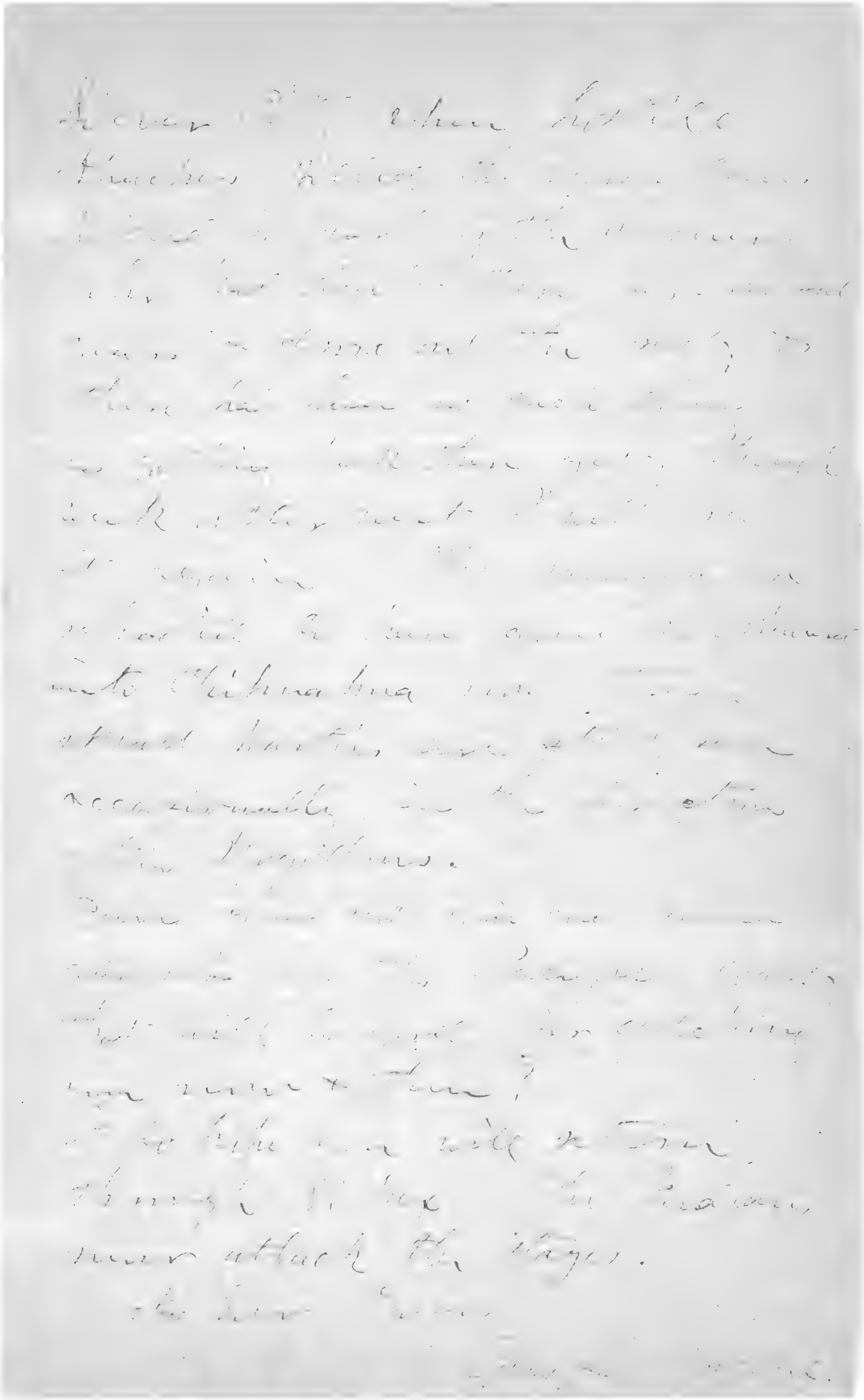

never attach the wages.

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GARDEN
GEORGE ENGELMANN PAPERS

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St Louis July 6

1880

Silver City, June 24

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Dear Doctor:

Your pleasant note of the 15th inst. has just come, and finds me hard at work trying to describe some other new Cactaceae; one related to C. opuntiaeprickly pedunculata, & C. Coulteri of Gray. I have also other notes, on other species of the genus, on hand, & will before sending them to the Botanical, add what you suggest about the unfortunately named C. mamillaris, that is, I will take the name C. humilis, and amend the character, and general account of the plant.

I am sorry you find it have your name of C. Opuntiae!

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but when a man compliments, as his own friends, he does not feel so check as when others do it for him; and, by David leave, the author comes to hand as naturally in connection with the notes of some more original [illegible].

I went to the ~~Prim~~ Primrose Alpine Mountains on Tuesday for flowers of the times; but came almost too late. However I got me on two things upon which the flowers do not quite agree by. It is a fine tree in bloom & my compliments of the season though in the Strawberry Alps & Alpatlers it has the same range as the Strawberry in the prairies. Perhaps the mountain flow the fine growth of white and R. [illegible] — Stem 70 × 50

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Rec'd Oct 14 in Berkeley
on same day

Silver City N. Mex.
Oct. 6. 1880

My Dear Doctor;

I am glad you found time, amid your journeyings, to write me so long and interesting a letter; but I can not understand why it should have been six days en route from Tucson, as I perceive by the post mark it has been.

Yes, you were in those Arizona Alts, at the wrong best season of the year; after the rains, & such effendid, continuous rains as this whole region has been blessed with this year. The reason you found no acorns of Quercus hypoleuca is probably this; you were too late! The tree does not

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occur within 15 miles of Silver City; and, at most that distance it occurs only in one direction, and I was not at the spot in time to get acorns. Even those of Q. Emoryi ripen & fall in July. Of the latter I have a few twigs with the nearly ripe fruits on them.

The one which you think is Q. reticulata is I presume a more reticulated form of what I saw on the Mogollon Mts of N. Mex., last April, thought much to new, and intended to call Q. almifolia. I have since seen a good deal more of it (in eastern Ariz.) & I find it quite variable. I have no doubt it is Q. reticulata Torr. & G. I can send you acorns nearly green, but not quite ripe.

That long peduncle is sometimes racemose (!) spiked: a dozen or more acorns being crowded together

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often the last two inches!! The peduncles, as I saw the tree, are longer, in many cases, than the leaves; 4 or 5 inches frequently, if not even longer! But then again, they are often very short, with only one or two fruits, like any other pedunculate oak.

I dont know how it came to pass that, in the Naturalist, I named Pinus Chihuahuana among the trees of this region. At any rate, I am now convinced there is no tree of the kind about here, except P. edulis.

But, in the San Francisco Mts. 120 - 130 miles west of here it is common, as is also P. ponderosa; or at least, a pine like edulis with only one leaf in a place.

No one has yet seemed to notice, or mention a Cupressus

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which is the commonest of all trees on the San Francisco Mts (!) and also the largest, though not very large 40 - 50 feet high and 3 feet in diameter. What can it be?

I discovered weeks ago that the white pine of the Pinos Altos Mts. is not separable to P. flexilis. I have sent good specimens of it to Brookline recently; comes with ripe seeds I have on hand. Of the Arbutus you speak of I know nothing. Arctostaphylos Jungens grows here, and is, with the exception of Pterospora andromedea (!) the sole representative of Ericacea in this region. I have met with. You make me, with your inspiring account of the Santa Rita country, resolve to go there next summer; yet might here, notwithstanding

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on its way to S. Louis before long. Or, do you need, & want, a full set of my plants?
I did not make many, and all are spoken for, already, though they are not all promised: four of them are wanted in Europe by parties to whom I have not yet said yes: & you can have one, of those four: (about 400 species in each) or, I can let you have a partial set: say 150, - 200 species which shall be very rich in my best things.
I doubt if I have answered all your questions. And now I will ask some.
Is it possible for me to obtain a copy of the Plantæ Lindheimerianæ or of Wislizenus Report? If yes, I suppose an equal

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likely to know them any more
else. If you have a
copy to spare of either or
both; or of Bilgrami's & Stanolony
Ex. Bot. do send me them
and let me pay you out of
my collections of this year,
which I know will do you
better than cash!
All the other papers on S. W.
Bot. I guess I have, & then
I could run in advertisement.
You can keep this long spiller
to read at odd intervals (when
there is nothing better to be done)
until you have found its end.
As always

E. L. Greene

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Rec Oct 27 R S Francisco
Ans —/28

Silver City, Oct. 20, 1880

My Dear Doctor;

Your favor of the 14th inst. is here.

Of some of my new species I have no duplicates, of others I have extra nos over & above what go into the full sets. I shall send you these, as many of them as I can, together with whatever others are likely to be desirable with you; not bothering to make out a parcel of any particular number of species. This is just what I wanted to do; but not feeling sure that you would not want everything, I would not send off the last full set without consulting your wish.

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Our edible-fruited Yucca
I have made nice flower & leaf specimens of & have sent it out as Yucca baccata, Torr. & now your remarks have led me to recur to the descriptions of that species, & I suspect I am wrong. There is no Yucca here with "dark purple" fruit, nor with fruit so small as that of Y. baccata is said to be.
May be the fruit of that species is wrongly described. In foliage & habit there is no difference between the one of this region & that of S. Colorado. But I have seen & eaten the fruit for the first time, this year.
The color is as fair a green when ripe as when half grown; very sweet to the taste, but without marked flavor save the sweetness.

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I should never think of describing it as "symph."
The leaves are coarsely filamentose on the margin. As to the flowers, we have two varieties. A narrower hood on the flowers, which are larger and cam-panulate; (not common): & a broader hood on, with smaller corollas contracted at the mouth, so that the flower is sub-globose; but I think the two pass into each other by gradations.
My humble Asclepias is, by the character of the dried flowers & worked out, distinct enough from any form of verticillata & Mexicana: the hood being a lanceolate, flat (petaloid) thing, with a very short hook for a horn, attached to its very base.

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I doubt about this oak's being well referable to Q. Douglasii; the leaves of all specimens of it are spinose-dentate if dentate at all; merely undulate margins are, I think, not to be found here.

About the "Q. pungens, common in N. Arizona" I know nothing unless ours is that; but here it is commonly a good sized tree; but often putting out abundantly as a shrub. All our white oak acorns are rather uncommonly sweet. This reminds me that our Q. Gambelii, (or rather our var. of undulata) ripens its acorns a month later than does the evergreen species. Just now its leaves are ready to fall, & are as beautiful a yellow, nearly, as those of the aspen, which turn, and fall at the same time. I do wish you could have been with me in the higher Pinos Altos Mts, where this

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Silver City 20 Oct.

oak is so abundant and of so fine a growth. They tell me its wood is for an oak very tough (!) almost as good as hickory; and that is very different from the common quality of western white oaks.

On the highest summits of the San Francisco Mts was an oak without trace of fruit, which appeared to me to be nothing but an alpine state of Q. chrysolepis; the leaves were yellow beneath, and all my specimens; but I made no specimens. I had too many other things to carry, before I came to it:

Of the Cupressus I carried boughs in my hand over nearly the whole of a twelve days tramp and toward evening, in the excitement consequent upon my finding that Abies,

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forgot them; having them
upon the ground by the
last bush of milkweed (if you
can allow that phrase.)
So you think I could mistake
a Juniperus for a Cupressus!
Well; I did during the first
two years of my climbing
up through those forests, pass
the Cupressus by as a Juniperus:
saying to myself that it was
probably a new state of J. Californica.
The fruits (which I afterwards
found to be such) I took for
mere excrescences, until
accident brought one of them
so near my eyes that I
saw the outline of the scales.
When I had cut one of the
balls in two, & in so doing
cut some of the seeds through
so that the white kernel was
visible, I yielded to con-

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-vection that has was a tree of which one the genus was new to me.
The bark is fibrous, & darker & more coarsely fissured than that of Juniperus Californica; the foliage & twigs are very like those of J. pachyphlœa: the perfectly spherical cones are just about an inch in diameter! Now what is it? I shall go out to those mountains again in November I think & then you shall see specimens. Herborizing herbarists is now nearly at an end; indeed quite so; yet the last week has furnished me no less than three new species: 1st Hieracium carneum which may be the H. longipilum of Pl. Wright, but

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whose hairs are much more
decidedly pilose than those
of longifolium, & its flowers
are so deep a flesh color (!)
that I almost hesitate between
purpureum & carneum for
a name. Except as to color
there is no ambiguity about the
genus: & H. albiflorum &
this are manifestly close allies.
2d. Baccharis semulata, a little
tufted herb of the size & foliage of
Erythræa semulata & 3d
Hedeoma linifolia, allied to
H. hyssopifolia, yet distinct as
can be; as smooth as a flax
~~and with~~ none of the pennyroyal
odor at all.
Well, I will have a parcel ready &
will mail it to St. Louis soon.
If you find any of those papers
for me, please register when you
mail them. No unregistered matter
is safe on its way hither; & such things are

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Rec'd Fr. Nov 15
St Louis Dec 16

Silver City, New Mexico
Nov. 4, 1880

My Dear Dr. Engelmann;

Yours of Oct 28 is in. I have hunted out the former letter & read your note on Cupressus from above Phoenix, which, having been written upon the back of the envelope, & wholly overlooked, conspicuous though it is.

No, my tree of the S. F. Mts. must be quite different from that. The youngest trees had fibrous bark. In size & shape it resembles the Rocky Mt. form of Juniperus; the largest trees were perhaps 4 feet through & 70 feet high. a beautiful tree, forming dense forests on the north sides of that rugged & most inaccessible of U.S. mountain ranges. And what I now write is after having made a second visit to the locality. It is only a three days drive, with good horses, to the base of the Mts; but from there up to the top, is a journey which having made twice, I think I shall never repeat. I am a good climber & a strong man; but from my climb up to the Cupressus woods, I returned so completely exhausted that I fell into a nervous

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chill, & exhausted from which fact we had for a couple of days, & prematurely ended my profound thorough exploration of the forests of those mountains.
But I brought back good specimens of the Cupressus. I have seen some & Sargent & others go out in certain parcels & this correspondents, under the name C. Arizonica but my tickets can be recalled if you think this identical with the Mexican Cupressus whose fruit is not known.
I also obtained twigs & a few acorns of the oak which I had taken for Chrysolepis. I guess it is the Q. fungens of which you speak. I enclose leaves, and will put a good rigid branch & a few acorns (imperfect ones) into the parcel which I will mail by & by to St. Louis. Whatever it may be, it is surely distinct from our Blue City tree.
Yes, Q. hypoleuca grows plentifully, but as a mere bush, on the summits of those mountains. Here in N. Mex, it is commonly a nice, very handsome tree.
My botanizing was very interesting this time, but though it's new in the season. The perpendicular faces of the hard, porphyritic cliffs, that form the top of the range, were adorned with tufts of a small

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shrubby Bigelovia (B. rupestris, I label it) in full bloom, lower down I found two bushes of an undescribed Brickellia with small, deltoid and very gummy leaves, which I call B. glutinosa. But the most interesting of all my conquests of the journey is a new Riddellia, which becomes, I believe the third member of the genus; very very large, & heads solitary at the ends of long naked branches; akenes with a few bristly hairs; a strongly marked species indeed; & will, I suppose strengthen the genus.

My pine-bush Ceanothus had, on Oct. 30, shed its seeds, & was in a second season of flowering! so I got the flowers! But, alas, for my ambition, I suspected, as soon as I examined the fully developed flower, that the shrubby & evergreen character of A. Linaria of Cavanilles, had never been noted, & that this might prove to be that plant. Now, Dr. Gray, (to whom I had sent a twig with follicle) sends me a letter from Europe, saying it is that!

I must put in here a little twig of a little Phyrodendron which I found growing on Juniperus Californica (?) in the S. F. Mts. It appears to be unlike anything described in

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in the books, & I am sending it out ticketed

P. Arizonicum, n. sp. Lin'n pensez vous?

As ever yours

Chas. L. Greene.

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Rec Dec 28th
Ans by P.C. Dec 31

Silver City. Dec 20, 1887

My Dear Doctor;

Dr. Parry writes me that you have returned to the East; & this intelligence spurs me up to finish up the century of my plants which I have, some time since begun to send you.

I give notes on some of the species now sent. viz.

"Gradiscantia Neo-Mexicana. which I can easily imagine to have been confounded with some forms of G. Virginica, which is also common here. But this plant is distinct from that by the rhizome having thick yellow tubes at its joints!

245. a common plant, but I know not what it ought to be called.

"Gen. Southward the "white hair" 14.

Brickellia glutinosa seeds & I compared with B. tracheandra Gray. I do not feel quite sure that it is distinct from that species

288. I have no name for; how you I send now, flower of Asclepias linifolia, but Dr Gray now thinks it is A. linaria, cav. Talinum humile. The leaves + the peduncles lie flat upon the ground! That they appear otherwise in the dried specimen is owing to the fact that the plants were held by the roots, with the tops in boiling water until they were killed, and could hardly be made to assume this natural, horizontal position.

Flowers yellow (but not seen open) Portulaca ~~lanceo~~ oculata. I should have taken this for your P. lanceolata, which is said to

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9.

two winged cepalo. But this thing has no cepalo!
But a continuous, scarious rim all around the top of the capsule. The plant is wholly erect.
Linum perenne var annuum.
Abundant on highlands, blooming maturing its seeds and dying, before the L. perenne on the adjoining low lands, comes into flower!
But I do not find it to differ otherwise from the type.
Linum Vel-Mexicanum: I can find no account going flat as all like this, & therefore take it to be undescribed.
But quite a number of the plants in the parcel, which I have given new names to may turn out to have been already described. Others I

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GEORGE E.
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I feel very certain about
and have published in
the Bot. Gazette. as you
will see in past + forthcoming
numbers of that magazine.
The parcel contains, what you
desired, the essence of my
$40.00 (400 species) sets.
If you wish to pay me cash
for them just send a $10.00
Post office order, + that will
suffice. But if you have
books for me, simply deduct
from the $10.00 the price of
them. Remember I desire
much a copy of Plant. Lindh.
Your notes & comments on my
parcels will be what I shall
value more than almost
anything else.

Sincerely Yours
Edw. L. Greene.

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Rec Jan 3 1881
— 4

Silver City, Dec. 25: 1880

My Dear Doctor:

Your letter of the 16th has just come in. Yes, I perceive that I have omitted, by accident, quite a number of the things I meant to send you, and there will be another parcel made up & sent you soon. I was sorry, after I had sent the parcel, that I had let those Euphorbia tickets go to you, on which I had written new names; for I felt confident that most of them would, upon a more leisurely & careful study of them, turn out to be already described. If you supposed me to have distributed the lot, to my correspondents on both sides of the ocean, under those names, you ought to have given me a "blowing up".

But my Euphorbias are still undistributed. The one I called E. fimbriolata I did think was surely new, and can not tell how I overlooked your name & char. of it in the Map Bound. The one I called E. aurita I could also find no account of in the books.

You will, before this, have received my second parcel. My Asclepias fruticosa, of which you have the lot specimens in existence, is to stand! Dr. Hooker says it is not A. linaria.

I shall answer your questions in a few days. S. L. G.

Yes! You sent me, years ago, a pretty seed pod from France.

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Ans Febr 9
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E. setiloba Dr A Rep V 30 Ap 1887

Silver City, Jan 25,

My Dear Doctor;

I have been once more looking over my Euphorbia. My 268, which you say is "my E. setiloba of Bot. Mex Bound." I can no more find any accounty in Bot. Mex. Bound, or any where else than I could before I sent it to you. You must have erred in your quoting y the place where you published it! And I can't guess where that can have been.

Official notice y the delivery to you y my second parcel, came long ago, but no word from yourself has been received. Hope you are not in ill health.

So Farr. E. L. Greene.

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Rec March 14
Ans — 22

Silver City, March 3. 1881.

My Dear Doctor;

Your letter of the 23d is here, and the "promised plants" are still in their places, (or rather lack of places) in my mixed up bundles. I have for two weeks, been busy with the remains of my Yreka Cal. coll. of 1876. The specimens, hardly & long since called for, were getting old & brittle; & I must now distribute or lose them, & in view of the wonderful lot of n. sp. which have been turned out by Watson, Gray & others during the 4 years the collection is too fine to be sapped, in any part, to go to waste. But they are nearly out of the way, and then I will come to what is left of 1880's plants.

Some of the bundles, which I had not examined with any care until lately, have turned up near a half dozen unlooked-for n. sp. In Caryophyllaceæ, with the Dynamos I had inadvertently mixed a fine new Mollugo (M. glauca, Gram) With the Amaranti I find an undescribed one, well marked, having a

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very much ruffled leaf-margin; H. crispus I will call it, I guess. Two Atriplices for which I can find no descriptions Mr. Watson in his good time will name and publish, I presume. Of each of these & some more n. sp. duplicates are named & help make out a little parcel which I have still to keep you waiting for. You have not mentioned the two Penstemons both allied to P. barbatus which I send you as n. sp.

One of them P. pinifolius, is clear enough; & the other I can no doubt also; for I am very familiar with very many forms of P. barbatus. I guess I will publish this under a different name from the one I put on your ticket. P. angustifolius, is good, to be sure, but Nuttall's having used it for a species now obsolete, does not, I suppose prevent its being well used again. However, my plant is distinguished among Penstemons by its very few-flowered racemes — only one flower to each pair of bracts! I will therefore call it P. paucifloras.

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You still appear to have a doubt concerning Talinum humile! A plant with leafless, dichotomous scapes, how can such a thing seem a variety of the strictly caulescent, yellow-flowered T. aurantiacum? The plant would have passed for Calandrinia Pygmaea as easily as possible, if its scapes had been green-flowered & the corollas purple, instead of yellow. Perhaps my species will be in print in Bot. Gaz. by the time this reaches you; and I know that when you have studied well your specimen, you will not hold me for a self-willed & conceited opponent of your always to be respected views.

I am not on very good ground for cactaceæ; too much elevated: Opuntia arborescens & two or three large Platyopuntia are conspicuous. I find also in Pinos Altos Mts an apparently new Platyopuntia very small, not branched, (acaulescent) and pretty smooth, the joints shaped ⊙ ⊙; flowers small, orange-colored, fruits smooth.

It is so small that I can send you a whole plant, & will try & get & send you one some time this spring, unless you will come and get it yourself. I know I wish you would do that! All your great botanists go all around me, when you get out, & get you all know that wherever I go I get on the very best of ground! Do come and visit me this spring. It is

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the matter of a couple of hundred miles (all but 40 of it by rail) from Silver City to the Arizona cactus deserts.
My hair is almost as gray as yours (though my years are but 37) and the Apaches will respect us, if they overhand us!
But I am, with this long letter, trespassing on your time & my own! Penstemon mudicaule is in bloom in my front yard, and I learn by that, that if in the cañons I could get good specimens of Anemone decapetala & flowering vine of your Draba Mogollonica, and yet I have full three sets of herbarium work to do.
Parry is still detained in S. Cal. waiting & watching for Hesperocallis. I fear he will, as usual, defer, until so late that he will have no time to come to me.
Expect the parcel within ten days.
You have not yet found me the specimen copy of Pl. Lindh.?
Well; if you do find it remember; that is all.

Sincerely Yours

Edw. L. Greene.

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Rec March 26

Silver City. March. 18. 1881

My Dear Doctor;

Yesterday I registered to you a small parcel containing the pine flowers, & what I take for flowering spec. of the Phoradendron. I am afraid the latter will reach you too nearly pulverized to be of much use; and of the pine I find I have only the male flowers, and those rather old.

I am not able to convince Mr. Watson that the "Amaranthus crispus" is distinct from A. albus, and therefore I will not publish it. He may be correct. The Mylinus he has found to correspond exactly with M. Cerviana Sering of the tropics. But it is certainly indigenous here, and rather common, even abundant on plains & mountain sides, remote from trodden roads. M. verticillata grows here, but only by roadsides as if introduced.

The Atriplex Mr. W. has not yet named.

Of the new Oldenlandia I had but three nice specimens of which I sent to Kew, to Cambridge and the 3d I reserve, sending you only two or three little plants barely in flower; but few of my correspondents get

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ever back.

Mr. Watson complains, and I doubt not - with some reason, about my scattering my n. sp. through so many papers. I have enclosed him, as I can do to you, separate sheets which can be kept together, and thus perhaps be more readily referred to.

Very sincerely yours

Edw. L. Greene.

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Rec April 9th

Silver City. 28. March. 1881.

Greene

My Dear Doctor:

Your letter of the 22d is just in, but for the present will have to be replied to very briefly. I am to be off in an hour, on my first botanical expedition of this season.

I will do the best I can for you in the way of notes & material of the oaks.

I am sure that, in my former communications I have confounded L. grisea & L. reticulata as one species. The transitions of them from one to the other in the S. Francisco mountains are, as I have it in my mind, very complete. But, since you distinguish them, I must look them up again. Yes: I saw, too late in the day, that my "San Francisco Mt." tickets might be misunderstood. It is the range along the River of that name, a long chain of Mts, including Mt. Graham, which is known in these parts as the S. F. Mts. Those of the maps are the "White Mts."

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Your word of caution about the Amaranthi must needs be heeded. Mr. Watson can not see that my proposed A. crispus is more than a var of A. albus, and so I leave the matter, until I can study the plant in fresh specimens.

Of Talinum humile I do not think I sent you an inferior specimen; that is to say, I guess there was fruit on it as near maturity as any I obtained; so that you could see what the seed is.

You long since asked me about Cucurbitaceæ, and I think I forgot to answer.

I have observed:

1st & 2d, the two Elaterium-Cooltii & Wrightii

3d & 4th the two Cucurbitæ, pepones & digitatæ (?)

5th, a thing somewhat similar to the Cucurbitæ in aspect; but with softer undulate foliage, a long-tubed flower, and soft-shelled fruit.

6th A. Megarhiza (!!!) has just come in to me, (a flowering branch) from those S. F. Mts, almost in New Mexico!

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The leaf-lobes and the pubescence indicate clearly enough what, from the habitat we might expect, a n. sp. and I wonder if I shall be permitted with the print in its season

The Pentstemon which I at first tickeled P. angustifolius, Gray, I have now made out character of with the name P. pauciflorus; for I discover that there is, in all my specimens, but one flower to each pair of bracts. I do not seem able to think of a better name. I find both these n. sp. by the flowers closely allied to barbatus, but the habit in both cases is widely different.

Dr Gray desires me to get characters by which to distinguish my Polemonium flavum from those forms of caeruleum which approach filiscissimum, and I find them easily in the shape and color of the corollas, and feel safe in noting its claim to specific rank on these.

None of the others ever show such long-pointed, never at-all stalk-spreading corolla-lobes,

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while the red-yellow color is also a good mark I think.

In haste, Yours as always,

E. L. Greene.

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Rec July 7
Ans same day

Berkeley, California
1st July, 1881.

My Dear Doctor;

I want to ask, (and you can answer by post card) if you recognize the seeds inclosed, as those of *Sparganium ramosum*? The plant appears to answer well to the description, that species, save that it is of much larger growth, ranging from three to seven feet in height.

Though no *Sparganium* whatever is anywhere accredited to the coast of California this thing is not rare.

I find it in a salt marsh

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at Berkeley, not a stone's throw from the beach; and again in great abundance in the upper part of Napa Valley, more particularly about the sulphur springs at Calistoga. Dr. Parry and I have made each a single specimen for our own herbaria; but bulky as it is, and awkward to handle, I must make at least one more for you! It strikes me as an interesting thing to have found here.
The same marshes are full of another plant not accredited to Cal., i.e. Lythrum Hyssopifolia (or L. hyssopifolium, whichever the proper appellation may be). Dr. Parry and I are sifting the Navassetia section of Gilia, in which we seem to have one or two or three more well

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characterized species than
are in the books; and I am
convinced that the difficulties
will soon be straightened out
but by study of fresh plants.
We have just brought in what
may possibly be the G. viscidula,
whose long exserted stamens
are not only unequally in-
-serted, but as strongly declined
as in any Polemonium!
I observed last summer that
Collomia Grandiflora has not
only just such stamens, as
that, but also a very strongly
bilabiate corolla! It seems
to me that Collomia can
not hold out, as a genus,
much longer; but its species
must be distributed among
the various sections of Gilia.
These things, however, you are
not, I believe, specially interested

in. I hope you have by this time recovered a good degree of health.
Let me know in what way I can, from these shores, assist in any of your own studies by gathering material.

Very Truly Yours
Edw. L. Greene.

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Rec Dec 13th
ans Febr 28

Berkeley, California
Dec. 7, 1881.

My Dear Doctor:

Mr. Pringle has just communicated to me your suggestions about my Cupressus Arizonica. It has been collected this year by Rusby, Lemmon and Pringle, and I have seen specimens in each instance. It is all one thing; but I have made no move towards printing the species. My reason has been that, last Spring Mr. Watson wrote me he was about to monograph the genus, and there was a possibility that my tree would turn up as being known from

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central or northern
Mexico, and already named.
So I left my proposed n. sp.
in his hands; but if there
is any hope of your getting on
the same task, and finishing
a monograph ahead of Mr.
Watson. I would say the same
to you. Do what you must,
with my love and with
his proposed name.
The matter of a name, as
to whether geographical, personal
or descriptive, does not to me
seem a matter of so very great
importance. But even if it
were more important than
most botanists consider it, it
seems to me that if any
species is to stand, the
name should be kept, for
the simple reason that it
is already, in a manner

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Jan. 1884. My sets of N. Mex. plants all contain the species, and the name "C. Arizonica, Green, n. sp." So it exists, thus ticketed in all the herbaria in the U. S. and in the principal ones of Europe. Should it be printed under another name, this fact would apparently necessitate the quoting of my "C. Arizonica", almost or quite, as a synonym. You will see in the Jan. Bot. Bulletin, my account of a "lot" of new Hemizonias and other Calif. compositae. Then are specimens of most of them for you — and I hope to find leisure in which to pick them out and mail them to you

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in a week or two.

Sincerely Yours,

Edw. L. Greene.

Lemmon writes to Gray Dec 1st

Greene naked many of my plants (then he examined them with Parry) as n. sp. and now declares it an act of meanness to send them east to have them named!

--- Rusby, Parish & Brayle and Brickenstein are trying to describe and I publish more new things than Watson, Engelmann Eaton, Porter, Vasey and all other botanists have for the last 4 months. etc

Kellogg also explorers for sending plants east for determination. ---

Greene is rushing wildly into print, makes the mistakes, but hits often new things and is fast becoming an authority.

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Ans April 6
an — 11

Greene wrote Oct 6 1880 of the
discovery of Cupressus, but
had no specimens.
Oct 20 had not found it.
Now I collected it. See the
Shrubbery Pines
Jepson

Berkeley. Calif. Mar. 31, 1882.

My Dear Doctor:

Your letter of Feb. 28 became mislaid, and I have but just this hour stumbled upon it in a place where I had not thought to look for it. You seem now to be of the opinion that there is but one species of Cupressus in Arizona; and you also claim to have been the "first to recognize, and name the species;" but have you not forgotten? It was on the second day

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of Sept. 1880 that I came into the forest of the new Cupressus. I at once reported the thing to you. It was as late as Oct. 28 that you wrote to me, from Berkeley, that you had seen specimens of what was probably still another n. sp. from Arizona, and for which you proposed the name C. lavicaulis.

The tree you described in that letter was "8-10 feet through and 25-30 feet high, with smooth, scaling bark much like manzanita."

But my tree, from another part of the territory is never half as thick, and usually

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twice as high, with
bark as shreddy as
that of any juniper:
I mean that of the trunk;
that of the branches
is scaly!
I suspect that the accompanying
sketch of the dimensions
bark &c of the "C lancaulis"
was erroneous, and that
we have but one Ariz. species:
But was not I first
to see the thing and to
name it C. Arizonica?
If I really was not, of course
I can recall it, by writing
to every body on both sides
of the Atlantic, who has
my specimens, with my
name. That Mr.
Lemmon has published

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my name, with his account of the tree, in that popular journal, the "Californian", might, forever, be thought sufficient to fix it: though my common sense would seem to indicate that a manuscript name, upon labels in the principal herbaria of the world, would be more to the point, as an argument to retain it.

I believe you do not study the compositae, but I have picked some of my new tarweeds to have a place in your herbarium, and so have mailed them, with a few other rarities in the same order.

Yo Ever Sincerely Yours
Edw. L. Greene.

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Rec Sept 19th
An —27

Berkeley, California
Sept. 13. 1882.

My Dear Doctor:-

I send herewith a specimen each of an oak and a dodder which I can not identify. Both were brought by Prof. Hilgard from the north, as you will see by the tickets. He desires the names of all the plants collected on that vacation tour of his, for publication; and, as I am his assistant in botany at the University, and the

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one to whom he looks for the names of things in this recent collection. I take the liberty of sending you, for him, these specimens. The oak does not appear to be exactly your Q. Breweri, yet the question is, what shall we call it? Were the trees from Colorado or New Mexico, they would be easily disposed of. But Q. undulata forms are not accredited to Oregon; nor to be expected thence. Prof Hilgard assures me the plants on these bushes not small trees are.

Sincerely Yours,

Edw. L. Greene.

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