

St Louis Jan 10<sup>th</sup> 1875

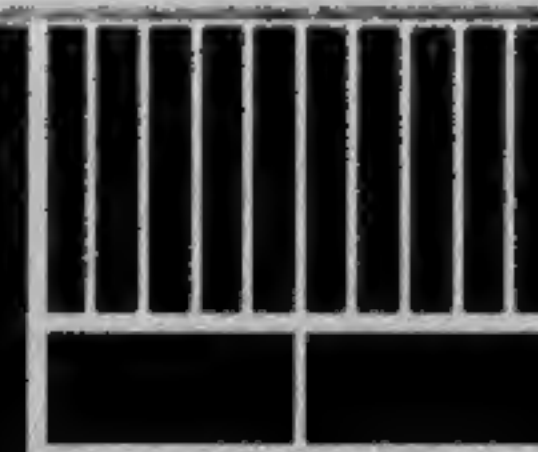
Here, my dear Dr, comes  
a new instalment (two new  
species!) but I am afraid  
post festum - trop tard - as they  
said to Louis Philippe, in the  
"Fruiteries", Febr 1848 - Nevertheless,  
I have done my duty to those two plants.

The other day I sent to Gray  
the diagnoses of two new Oregon Gentians,  
a third proved no Gentian at all, but  
a Chilean Gentianeaceous plant:  
*Cicendia quadrangularis*.

As it cold! - 18° was the  
lowest, I had yesterday morning.

Siler and Johnson write lovely  
letters, upon my grumbling -  
Good souls!

Siler says he will send his plants  
to you, where I may get what  
I want. He had offered them for  $\frac{1}{2}$



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MISSOURI  
BOTANICAL  
GARDEN

Jan 10 '75

cents — I had offered 10 cents  
for each sp. if I could pick them.  
So you will have the disposal  
When do yours come? — but I  
am patient, as you say!

Got a box of Cacti from some  
one at San Diego — a day or two  
ago — have not opened yet, for  
fear of finding every thing destroyed  
by post — coming over the plains.  
Will do so, as soon as I have  
scowled up courage — That  
Johnson box has scared me!

No fruit on that new Cereus etc  
shall I say "More suo"? so I  
can not say to what section of  
C. it belongs! But I won't  
grumble; it is too bad a habit!

Anything from Duncan? I have  
not heard from him since that  
single letter

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

Yours truly  
G. Engelmann



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St Louis Jan 26 1875

Dear Parry

you are surprised at my spasmodic activity! Have got two letters <sup>from me</sup> with 4 new plants! and Gray is doing so much better. Can not say that I am satisfied with his thistles — but *Cnicus Parryi* is good. Have not touched *Portulacaceae* yet.

Got a lot of Cacti from a friend who passed through San Diego; *Op. prolif.* *Ech. vir.* *Car. Emor* etc all very nice, but frozen to death! cost me \$15!! There is one great thing though, that pleases me mightily — *Op. Prolifera*, your first Cactus, I believe, in ripe fruit — seeds good and very characteristic and "instruction". The species is a very good one — pity, the other San Diego *Op. serpentina* is not also among them.

Your Utah plan may be good but do not count me in! when I want to escape summer heat in St Louis I shall surely not fly to Johnson's! —  
Brandegee writes that they had -12°, good



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Jan. 26 '75  
for (snow!!) Quercus, Eucalyptus yet green,  
can stand all that — other bushes have  
lost their leaves or they are brown — no  
character in that!! "Mr Putnam is well"  
"walked with me to Springs [1/2 mile] had to sit down  
several times" (therefore weaker than when he came?)

Write more about him, has he got a  
Pony? as I advised him. He has writt  
to me only once. My wife got a letter from Mrs  
Putnam some months ago, but as she is not any  
Of course I do not want more common  
things from you, but all the good ones.

Yes, send abies grandis from Yellowstone  
I have the true plant from Montana  
& expect English writers don't feel like  
answering it, but mention her to Mrs  
P. with sentiments of ... etc.

I send you a fruit of Op. proleptis  
greenish yellow

Yours truly

G. Engelmann

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Things that I had sent to Germany from  
Europe had not arrived — I only now learn  
that only packages of 8 ounces or under go  
through — how stupid! All these nice things  
were thrown out in New York!!



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St Louis 19 Febr 1875

Dear Parry

two letters unanswered

so you see I am on another track

Don't work at your things at all!

Erratic! I have got Rottbocks

things - nice - some Pines and

Oaks on rocks & pines and 1 oak

that none of you ever got in Arizona!

And settling some Agaves -

Parryi in bloom and fruit, and leaf!!

Also Gentiana Wislizeni, a Pines

Chihuahuensis, but that has already

been found by Wright in Arizona.

But more than that, an unguarded  
promise I made (to deliver a

lecture in a public course) keeps

me from doing any thing else - and

the daily routine of patients.

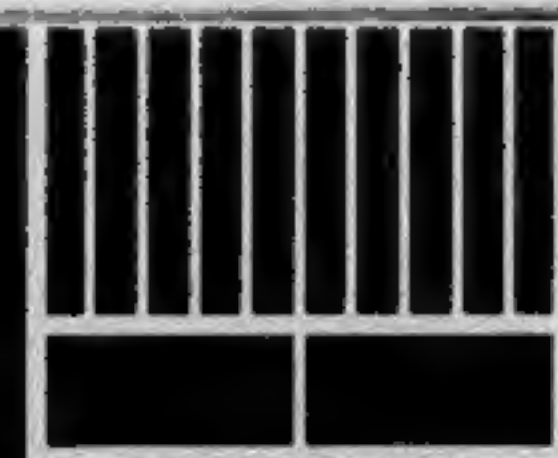
You will have to wait a little -

but Rayburn I never looked at nor

have I good material - can not do

good service in that - But

now verrous! Don't despair!



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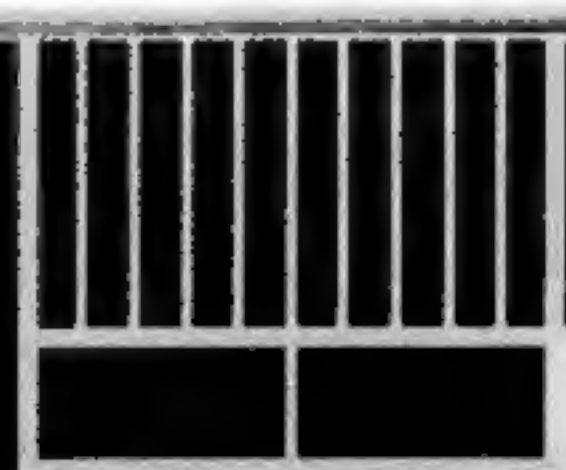
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Hayden's Colorado Report of 1873 just  
out, contains a heap of interesting  
matters -

I hear nothing <sup>2 years ago</sup> ~~heard~~ from  
Gray

When Royle was here V. I. showed him  
sp. of *Feather* of *Alein* color  
and he thought he would look it up  
going west and I. west. - Maybe  
he has, or has sent something else  
by that name, he is very unscrupulous.  
*A. con* is not rare - Brandege has  
plenty of it - Rothrock got a fine  
specimen in his coll. - And  
it is not improbable that the California  
"grandis" known under diverse  
names and extensively cultivated,  
maybe the same thing. -

Sad about the death of little Berthoud  
give our regards and regrets to Mrs P.  
Had a letter from Dummer, but probably not  
so late as your information  
More when I have more to say.



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19 Feb 70

In your letter of 3 weeks ago you ask about Cav Emoryi - pity the plants are dead - frost killed! No seed on them. - The flower I had seen from other Collectors, it is yellow which is rather rare among Cere.

Got today a large box from Brondeque Cacti, etc etc fear the latter are also killed! The third Cactus box is the dead of wretches!!! and fearfully dear: freight 13.50.

Mrs Schulerburg was doing very well till New Year - Cold weather and pleasure seeking have brought her to the brink of the grave; has not been out of bed since. May be able though to go to Colorado again.

Thanks for the plants - what is "the damage"?

Yours Truly

G Engelmann

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*[Faint, mirrored handwriting, likely bleed-through from the reverse side of the page]*

*[Faint handwriting, possibly a signature or name]*

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MISSOURI  
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St Louis 27 Feb 1875

Dear Parry,

Enclosed please find "the truth about Colorado" to the hands of our friend Bellard. I had been quite amused - but it cured me of the inclination to send them \$20,000 more or less to our friend Peck!

The man might have added: "we never have any colds here" vide a certain Dr. catching, and Mrs Parry and Mrs Peck trying to dose him with tar, molasses, butter and I do not know what.

Will you have to thank the inability to do for the receipt of these talks.

But I will attend to that as exp. as soon as I am able - soon - in a week -



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I had laid aside for you  
flowers of both Agaves - from Rothrock  
which I enclose here - see the  
difference of tube and lobes in both &  
insertion of ~~anther~~ stamens. The fruit  
and seeds are from Palmer and  
have probably passed through your  
hands - in those piping times  
of peace - peace with the power  
that be -

By the way, I Gray still such  
a savage Republican, a little  
worse than Morton if possible -  
I have sometimes a mind to  
trout him with his pet, U.S.G.  
but then, he might not write  
me another letter - he has not  
answered a thistle letter of a  
month ago. You say he is poorly - how?

Alas! Rothrock stamps  
you with "nice things" you are  
getting jealous!

What you say about



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27 Feb '75

Duncan is changing - he  
seems to have stood - 14  
well enough, but now come  
the changes of March -

I like your plan - but  
not too early, you know the  
climate of Dampers better  
than I do; he must not come  
too early.

Box from Brandege.

That Junip. ovoid really has  
no red wood at all, and  
splits poorly - I must get  
my friend the Captain, who is  
in Camp Harney, South eastern  
Oregon and has sent Junip.  
ovoid ~~and~~ Pinus ponderosa  
to look after the wood there.

Getting information  
under difficulties!

Truly yours

over



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I had both flowers of *Agave* before  
but did not know *Schott's* which.  
Schott had collected *Palmieri* 20 years  
ago — Your San Felipe flower  
is probably = *Parryi* — but  
that San Diego thing described  
by you, to be called *Agave*  
*eryphylla* must be  
a peculiar thing.

By the way *Siler's* fresh  
& mature berries of *Juniper*  
Cal. on Mt. show that really  
there are none of the turpentine  
vesicles, and the berry is edible  
(though not exactly pleasant)

How will these plants  
fare with a good no stamp  
on them?

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Please send me a set of those  
marked cones <sup>of Coutotte</sup> - I intend to plant  
them partly entire, and partly the  
liberated seeds for an experiment.  
watch the eye carefully and con-  
scientiously!

I wrote on the envelope of my  
letter of the 27<sup>th</sup> that *Vitis Arizonica*  
is only named, just as *V. Caudiana*  
was which Buckley stole and converts  
into *V. Mustangensis*. But this  
reminds me that I have many  
like sins on my conscience -  
which, before I die, ought to  
be taken off or shaken off -  
for it seems that it takes a  
good shaking to overcome  
- what? The two Agaves  
belong to the same class of sins  
of omission

March 17 1875

Dear Parry

The above was written  
some time ago, evidently intended for you



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I do not know, whether I have not  
written the same since — but no matter  
you may read it again, no harm.

I am working up *V. arizonica* and send  
you miss very soon.

*Asclepias* <sup>ovata</sup> ~~ovata~~? I do not know what  
to do with, as I can not compare the real  
thing; have written to Gray for a flower of it —  
and there is another woolly *Asclep.* in California  
*A. verticillata*, which I know nothing about. The  
leaves of your plant do not agree with the  
description of *ovata*.

Gray has sent word letter, is sick again  
from new cold (cutting hair & beard) will  
go south with wife — perhaps come here on  
returning.

I have a promising letter from J. N. Hitchcock  
from San Diego offering to collect as send Cali-  
fornia. — Now as we have a resident there  
who proposed to do things we must pump him.  
I have mislaid a Mem. of the exact locality  
of *P. Torrreyana* & *P. Parryana* — especially the  
latter is important; and our friend Hitchcock  
must be set after them. Also after your  
broadleaved *Asclep.*, *A. euryphylla* n. sp.  
Give me exactest localities of both so  
that they can be found. — I believe I  
spoke of that *Asclep.* in my last letter —  
you know what I mean.



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Mar 17, '75

I send you a copy of the  
H. Davis Deewont with my  
lecture — you will be pleased  
with some recollections in it. In  
other things you may find it  
poor: — first attempt of the  
promising young man!

I did neglect to send money  
here it is — hope it will not  
slip out of the envelope !!

\$ 15.00 you say

You say location of *Asco. ericarpa*?  
is quite peculiar — but do not say  
what the location is !! What ??  
Do you know or possess *ericarpa*?  
if so send a flower.

But none enough

Send any thing you think proper  
of Peters, and say what to pay  
so as to help & encourage him.

Watson writes rather pointedly that  
I made a new sp of your *Euphorbia*  
which he took for revolute, is going  
to send me more double *Euphorbia*  
to make new sp off!



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Do I write about Rothrock's salt?  
I am now inclined to think that  
Forry's original Emoryi is different from  
what we have lately taken for it. - Wright.  
sent it as now Rothrock and it agrees exactly  
with fig. in Emory Report. - Our Emoryi  
is the extreme form of *undulata*.

Yours ever

G Engelmann

My wife wrote to Mrs Putnam  
on the death of the Berthoud babe  
and respects to Mrs P

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Albion March 23 1875

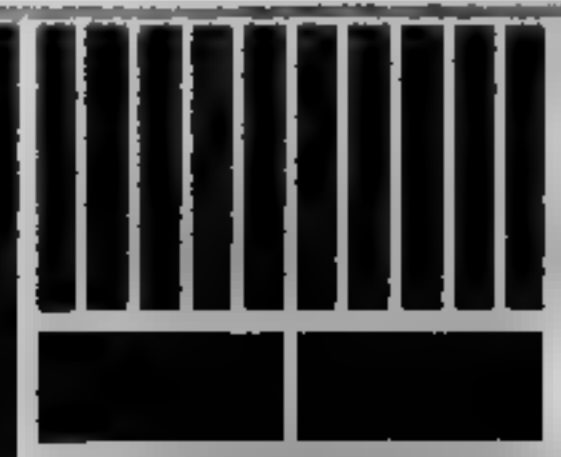
Dear Parry

here is all I can  
do for you today — will send Asclep.  
as soon as I receive the material  
from Gray, to compare.

I sent you \$15 the other day which  
I expect is all safe.

Sister, as you say outkayding  
Hayden! No more of him for me.

I had a letter from him today in  
which he offers many pounds of Yucca  
baccata seed <sup>for</sup> which Meekhan finds no  
sale in Philadelphia, he refers  
to you (which Johnson also did  
some time ago in the same strain)  
"Dr P. urged me to collect them  
saying that there was such a  
panic in Germany for Yuccas"  
In "Panics" we are apt to  
run away, which I will have to  
do from Yuccas if they continue  
to disturb me thus! I fear  
I shall dream of them: just think  
of their bayonets attacking me  
from every side, and their big  
juicy fruits choking me! Ugh!



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GARDEN

Mar 27 '75

I shall send Silver two Dollars as you suggest.

You see that I have made quite a long (and valuable and interesting!!) article of *V. Arizonica* - of which!! I want a dozen or 20 copies.

You may read it over and improve its English if not its Botany. -

They are overdoing the business and nobody will want their things after this; especially as they peddle them round - the proper way is to send to one man to retail spread and publish them. -

So you adopt Gray's uncalculated mark ° for feet, which every body else reads for degree: now 2° - Empire, I suppose is 8500°

It is a Yankee sign (paper money) which has no currency elsewhere I believe. -

Acknowledge receipt!

Yours truly

G. Engelman

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St Louis March 29 1878

Here, my dear Parry,  
is the last instalment. When  
you see the trouble I had to  
get that poor Ascl. fixed, how  
I had to hunt up material to  
compare, and to analyze the  
scant fragments obtained (through  
Watson) you will appreciate  
the work, and not scold for not  
having done Claytonia, which  
I would have to study all over  
with all relatives, etc. etc. Lewisia  
I have entirely forgotten, mislaid  
notes, could not have had to  
begin over - no time nor inclination  
now!

What I send <sup>in the MSS</sup> "More Geo"  
is for your private benefit  
and you may add, correct,  
scrub just as you please!



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Your letter came Saturday  
and today a summons to the  
Postoffice - There I found your  
contents in a twisted condition  
They had found out your labels  
and they made me pay letter  
postage! I would not have  
thought that an old stager,  
like you, would be caught  
so green!

Well, they will be attended  
to.

I learn, that written numbers  
are allowed but no other writing.  
A schoolmaster (?) in the Indian  
territory caught me in the  
same way a few months ago.

Today a letter from Braudage  
"Alvin Mayes" common in  
the high Sangre de Cristo  
Mts. - Is it not Taylor?

Your notes will be forwarded  
at once to San Diego.



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GARDEN

Mar 29 '75

A botanical news or curriculum?

A professor at Forester College  
in Austria has requested <sup>few</sup> leaves of  
all our Pines. His microscopical analysis  
would enable him to distinguish all species,  
varieties, alliances, by a leaf alone.  
I will send <sup>all</sup> ~~you~~ as soon as I can find  
time; but first *P. flexilis* & *albertii*,  
*P. aristata* & *Balfouri*, and the  
4 nut pines — to test them and  
test him! — The <sup>results</sup> ~~proofs~~ he has already  
given me agree with my views  
and let me hope, that there is  
something in it

You have got Arizona by this  
time and also my little addition.

No 2 has not yet come.

I would like you to criticize  
my "Forests" — Mr Parry was  
no doubt tickled with the ruin  
and the tourists. Several persons  
have written for copies.

WV

Yours

ever

J. Engelm



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MISSOURI  
BOTANICAL  
GARDEN

I wrote to Newbery for notes about  
his Agave - does Report - a very  
peculiar species - no answers  
If you go to N.Y. you must try  
and hunt up what can be got.  
I have seen sp. = McFong.  
an odd thing -

My wife had a bad fall nearly  
2 weeks ago, struck on head, bursting  
temporal artery, great effusion -  
immense swelling - no brain symptoms  
has to keep in bed most of the time,  
tumor very slowly diminishing - but  
luck !!

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

Did I tell you, how it happened that my  
nice packages were reached Germany?  
we thought 4 pounds were allowed, while it is  
only 2 ounces !! With P.M. Peck we  
found out in the big P.O. book!



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St Louis May 28<sup>th</sup> 1875

My dear Parry

Your letter of May 13 and accompanying package came to hand a week ago together with another Pine package and letter from Dr Chapman which also treats of a non opening (contortous) new Florida Pine, about which Prof Gray can tell you more as he has seen (but not collected) it. It is not cousin or brother to *P. inops* (not *glabra*) but probably distinct - it would be odd if *inops* opening at maturity from New Jersey to S. Carolina should change thus in Florida, Chapman calls it *P. Clausa*. Poor thing - never (?) permitted to open and propagate?

This together with your *P. virginica* for which I am greatly obliged opens the question of closed cones again.

None of the Contorts sent me do germinate yet - that isolated tree in Empire may not have born perfect fruit.



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Two <sup>or more</sup> questions seem to obtrude themselves:

Do the seeds remain good for years in the closed cones?

Do these cones ever open afterwards? One should think that they falling to the ground rot and disengage seeds — but they do not fall!

Do not the cones, once past maturity, ever remain closed — having lost the integrity and elasticity of the tissues.

What keeps them closed? You know that I suggested the absence of good seed — but there is good seed, and on the other hand empty cones of *P. serotina* or *ponderosa* etc open very readily, never remain closed.

It was known to me that rigid remains closed sometimes and thus forms an easy bridge to *P. serotina*, which is with the new Chapmanian the only eastern closed one. *Serotina* is made by Gray a form of rigid



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May 23 '25

and probably justly so.

A letter from Brandegee speaking of Durran says that he had left (much too soon for that late spring) and that he did not expect he would live long & coolly added. May be so.

My wife is in good health though she bears the marks of that tremendous effusion yet. — Housecleaning troubles! — servant troubles! — I do not know whether she might not add Husband and son troubles! — What is life but trouble?

This sober reflection comes in properly because today is Sunday. Somebody has headed to me a bundle of weeds from New Mexico, wants to know what this heath like shrub is and what it is good for — I do not know, hope you or the other wise men of Cambridge may be able to tell.



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I must go back to your questions of *Pinus*  
*rigida*. Male & fem. flowers are found  
on the growth of same spray - males at  
the base, females more or less towards the  
top of branch. - Many *Pinus* have adventitious  
cones - *rigida*, *pinquus inops* - others  
*resinosa*, *sylvestris* etc. *resinosa* has  
and *ponderosa* has constantly that  
persistent base you know.

No I do not know Lemon, and  
one sp. of his *Abies*. I expect it  
has nothing to do with *bracteata*.

I hope we will have soon your  
etch papers, descr. of Plants -  
send me several copies to distribute.

Rostrata has gone to Los  
Angeles.

You speak of a <sup>new</sup> <sup>that you want</sup> *Yucca* paper - I have  
not published any thing for a year - what  
do you mean?

Let me hear from you again  
How does Cambridge look, and

his Gray

yours truly  
G Engelmann

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MISSOURI  
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St. Louis June 12<sup>th</sup> 1875

My dear Parry

I was glad to receive a sign of life from you - had almost given you up as lost among the Yankees. But your handwriting - I did not recognize it - so good - so civilized! Yankee influence? I actually could read it as if it was print!

Well, I can not make out any thing of this Lemon scale - such a young scale is not accountable - good for Lemon if he made so much - rather remarkable, as all sorts of Pine seeds are annually sent to England from the numerous collectors in San Francisco.

If you had sent me a leaf or two I could have better identified the species, but from what you tell me about the name, *A. amabilis*, I judge it is what the Californians persist in naming *amabilis* and which Murray has long since distinguished as *A. magnifica* - a tree well known to Bolander etc - but they persist in calling it *amabilis*, while the other Californian they will call *grandis*.

I do not know yet, whether or will leave from color change or not



but this is not the *Grandis* from  
the Columbia River, of which Lyell  
and lately Hall sent specimens.  
I am very sure that this is the  
same as our Clear Creek *A. Grandis*  
But you have hit, I think, the true  
thing, in suggesting that the California  
"grandis" is nothing but *A. concolor*.  
I have thought so for some time, and  
so your suggestion confirms me — there  
are some points, though, not entirely  
settled yet — some (slight) points of  
difference do exist.

This California *grandis* has received  
several names, but *concolor* — if  
*concolor* it is — is the oldest.

Both rock, whose headquarters are  
at Los Angeles this season, must try  
to trace it <sup>*concolor*</sup> from the San Francisco  
mountains, where I know it to grow  
farther west — and Prof Dawson of  
Montreal will have to trace *A. calycina*  
on the 49<sup>th</sup> lat westward to find how  
it becomes *A. grandis* — as well as  
Alba & Eagle. I have written to  
him about it.



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June 12 '15

Well, our friends in San Diego are full of zeal and appear efficient also, only a little too much so, threatening to send, one of the largest Agaves that grow at the Monument to me by express!!

I deprecate haste - but the gentle gift - beg only for a few leaves, flowers, seed, and young shoots.

You see your old locality of 25 years ago has been found, and the plant on it - it may prove Parryi indeed! But we will soon know.

If these eastern men only could be stirred up so effectively! I have not only specimens of wood of *Juniper occidentalis* from Cañon for Texas, and expect it from the interior of Oregon - But to get *A. Fraseri* seems impossible - If *A. balsamea* I have a tolerable good supply, which is very interesting as I can on it study the variations in an undoubted species - which has no allied ones (except that confounded mysterious *Fraseri*) near it. How we can distinguish

*Juniper occidentalis* has a heavier & more resinous wood than *Virginica* or *Waldleyi*



I have seen specimens of *U. grandis* from Oregon

*U. balsamea* and *grandis* except by size, is a puzzle - but I think there must be other differences and good characters.

Brandegee is also out in the West with Hayden's Party. He says *Concolor* has poor wood - sends it, but Bolander says that *Umbelifer-Magnifica* has excellent timber, and his *grandis* - *concolor* very poor.

Well I guess in a few years I will have gathered material enough to come to some conclusion!!

I find a Mem: why is Parry's Yellow Stone Botrychium simplex and not *B. lanaria*? I can not distinguish it from German *lanaria*.

I am anxious to get a few copies of your pl. *Urb.* with the abortive unborn *Mellichampia*, the life *Arlepinis* etc etc - and other of Dr Engelmann's unborn botanical treasures not found in it.

Write soon, till me also about Duran  
young  
J. Engelmann

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



St Louis 14 June 75

Dear Harry

Yours of 15<sup>th</sup> recd yesterday  
Parrel today.

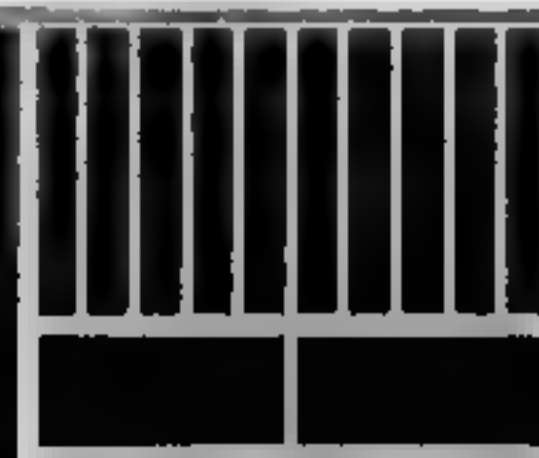
You know the proverb, what  
we wish for in youth, we get in old  
age, and others of similar import.

I got from San Diego yesterday  
living joints & fl. of *Op. serpentina*  
and "best of all" Plectis of Hon. Messrs  
of Ag. "with the intimation that  
several members of their society  
be elect to our Ac. Good!

"quid pro quo" Oh what does  
a man not submit to for Cacti  
and Agaves, not to speak of Pines!

This morning the parrel came  
yes send a dollar worth of Shepherdia  
though I have scarcely any ex-  
changes. I include the fl. which

you can remit in person. With  
my compliments



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And now I get a parcel of  
fresh plants 30 miles west of this  
— nice things — *Porulea esculenta*,  
*Asplenium Lyrate*, *Gonolobus obliquus*  
*Galium virgatum* but above all  
the unexpected *Paxifraga Pennsylv.*

I examine & distribute now  
(ought to have done long ago)  
my Colorado plants — find *Osnothiza*  
*nuda* (which I believe you did not  
get) a good sp. not too near *brevistylis*?

I have nothing against your  
orthography, topography or typography  
but a good deal against your  
calligraphy — and you, I suppose  
against mine — so that will  
balance each other.

I also got a copy of  
Jones Report

Yes the *Lernaeobius* is  
*A. Magnifica* — with those short  
square leaves (like *A. nobilis*)  
those that describe *A. Mobilis*



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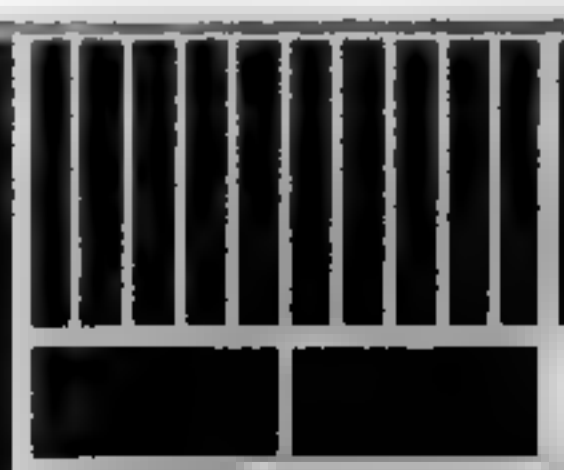
17 June '75

first could not but have noticed  
these spine-like leaves but did  
not, nor does any of the  
trees raised from Douglas seed,  
show any thing like it. A few  
months ago I had a quince  
in Gard. Chocoma (through Hooker)  
shelter wood of *Amabilis*, or *Grandis*  
either, now 45 or 48 years old  
in England had some fruiting.  
Have not had an answer.

I know *Amabilis* well, at  
least I think I do — and  
Noddy is right — it is a  
form of *Grandis*.

Red and "apple-green" cones  
are good, but not sufficient  
I have seen *A. pectinata* in  
Germany on the same mountain  
with red & pale green cones —

This same diff. in *Colona*  
distinguishes also as far as it  
goes *Picea flexilis* & *albertiana*  
(Green) (Red)



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Have not got your Utah plants  
yet - and of the former numbers  
of some 1 of others 2 copies; can  
not now lay my hands on, to tell  
what I have.

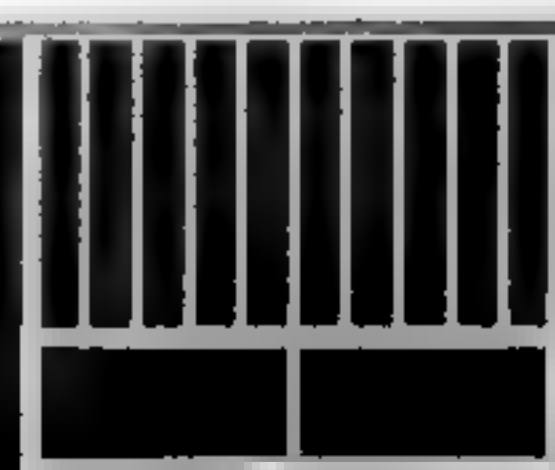
Glad they have both specimens  
in Cambridge - but only one  
A. Q.!

In the former Report both  
Botrychium & B. simplicifolium  
are mentioned - what you  
sent me with the Plants of  
1873 I take to be B. Lunaria.

Yours truly

Wm. H. Raven

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Albany July 9 1875

My dear Parry

not a line from you from  
Deseret! in answer to my  
anxious solicitations. But to day  
come the missing numbers of "S. Utah plant"  
except No 5 and last, with Agave etc  
which I suppose is not out yet.

Thanks is far

I am sorry I did neglect and procrastinate  
a good many things - among others  
the study of my Colorado plants. There is  
a new *Menyanthes* (*M. dorysantha* n. sp.)  
among them, and in good fruit from Canon  
which I think is the same as your doubtful  
No. 78. Do you recollect the number colour  
of flowers and time of flowering, mine is  
golden yellow, and was open in day, at  
least in afternoon.

I have some specimens of *Opuntia*  
*Serpentina* and photographs - the  
fruit and seed is very distinct from  
*prolifera*. I hope to name it.

Better than that, the good people  
of San Diego send me an *Agave*  
from the "California Desert" which



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you must have seen too; probably from  
the arid valley SE of San Felipe  
where Emory in Nov. 1846. complained  
so much of it

It is a very distinct thing  
with slender <sup>compressed</sup> terminal spines  $\frac{1}{2}$  inch  
long with a narrow groove

 I have a good stout  
young plant, but no  
more yet - have written for more  
grown leaf - plant etc. The good  
folks there have put their foot in  
and will I hope, permit me  
to extract as much as possible  
from them.

The Monument Agave, as  
it is now called by tacit consent,  
has not turned up yet, but is  
promised.

Very much some Arizona  
Euphorbia Part coll by a  
Dr Smart - 1867 never heard  
of him -

You see I am busy -



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July 8, '75

my own way but unproductive  
unless someone is poking at me  
as Dr Parry did about Asclep. etc.

There is a very peculiar fellow  
30 mi from here in this county,  
who keeps sending me fresh plants,  
some of them good — the others dry  
Vasey's new Saxifrage Forbesii  
(much like Pennsylvania)

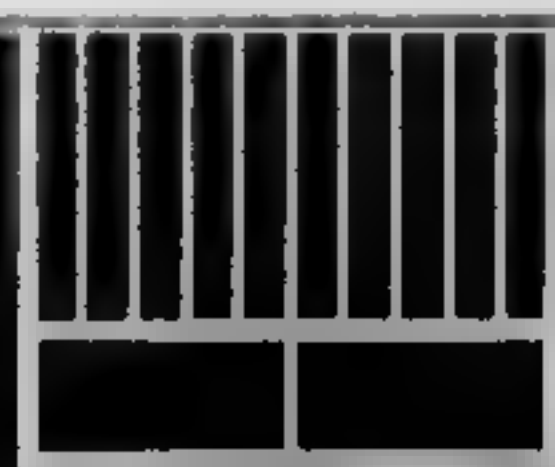
and now good bye, write

soon

No prospects of going off  
to the shades of Bolander  
but a long letter of ??  
to Lemoore !!

Yours ever

J. Douglas



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St Louis July 14 75

Dear Parry

Your young of July 8<sup>th</sup>  
came this morning, and  
though I had written a week  
ago, one word in it fixed  
the botanical heart. ~~And~~  
I must write again.

You have found ~~an~~ *Erythron*  
and don't send it! Don't you  
know that I am deep in *Erythron*

My brother, with Simpson's Exp.,  
had collected in western Utah (or  
Nevada?) a little species which  
Watson takes for his "Mittellii"; but  
which I suppose is a distinct  
species. — Yours may be the  
name; send it at once, and  
with good seed for *Erythron*  
without seed is only half  
the thing. Get enough of it.



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more meo (non me)

Thanks for the seedling pairs; and  
get them in a month or two, with second  
leaves. - Their cotyledons (1-8) corresp.  
with those I found in the seeds. -  
Has Grandis there also 4 Cotyl? -  
Do you find the leaves of Grandis  
(as on Clear Creek) emarginate,  
obuse and pointed on same  
tree?

Your specimens & p C were  
received 2 days ago. Thanks.

That Los Angeles railroad  
appendage is a good idea.  
Of course you will look out for  
all nice things. Let me hear  
from you often.

Some one, who pesters me  
with scraps of plants from the  
Indian Territory, <sup>to name</sup> has sent  
a few good things lately  
and also among them  
a new Isoetes, quite



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July 1 '25

terrestrial, on arid ground.

No *Saccharis* in your lakes?

So Greene is or was against  
in Colorado — I don't know;  
I have not heard from him for  
a long time

Why "Black Balsam"?

What is Black? Bark?

Watch *Quercus* east & west!

I suspect some Californian  
will prove forms of *undulata*.

In Canon there are 3 or 4  
forms, evidently accordy to locality  
fertile soil is var *gambelii*, rocky  
soil true *undulata* and edge  
of precipices, most arid,  
the small & spiny leaved var.  
which we used to take for *Emoryi*.

Note also the size of the  
trees — though in Colorado always  
a bush, it may grow up  
to a respectably sized tree  
I guess.



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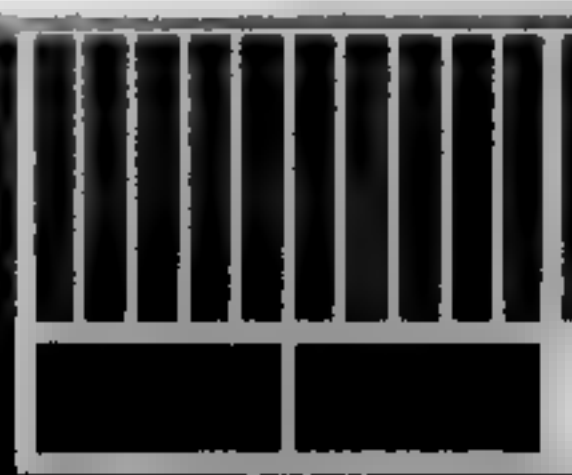
I do not understand whether  
Mr. P. is with you or  
will join you.

My best wishes for Susan  
write often, if you  
are not too tired.

It is cool and wet and  
we will probably stay here.

Yours truly  
G. Engelmann

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MISSOURI  
BOTANICAL  
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St Louis Oct 11<sup>th</sup> - 1875

My dear Parry

I avail myself of the first permission allowed me to write to you!

Had not heard from you so long; and did not know where to address.

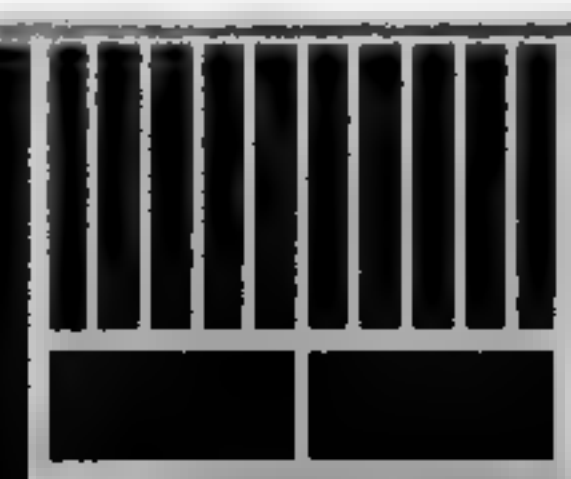
Post Cards must be scarce at Spring Lake. Had I thought if it I would have sent you a lot, blank - or perhaps better with my name written on one page "only".

Your box with package came safe to hand and several days ago the seeds, both of which I recognized. Thanks.

No seeds of *Yucca brevifolia* obtainable? - The wet summer has killed all my specimens!!

I am corresponding with Lemmon, from whom I hope much about the *Alisia* question. Will you see him?

Gray and Prof. Sargent of the Calif. Yucca -  
Erythronium is recorded - He calls  
your watch plant Eryth. Douglasii.  
(not with Gray)



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But I expect more from you!

I have been working hard in Abies lately and several new lights are dawning! But I won't bother you with what may or may not be true. There is not the least doubt about the difference of the two Colorado trees but I fear the Clear Creek grandis is not grandis. But I pass these questions to say that

1. sterile lower horizontal branches
2. branchlets which bear male flowers (or their vestiges)
3. branchlets which bear female fl or cones are necessary to make out the characters.

These 3 ought always to be collected, even at a season when cones <sup>or fl</sup> can not be got they can always be found; and seedling plants, if possible!

The California Abies bother me yet and with Bolander and in the Seed Store, you ought to be able to do a good deal to help me along.

There are two extreme forms: the  
1, the Oregon - Vancouver - Mendocino



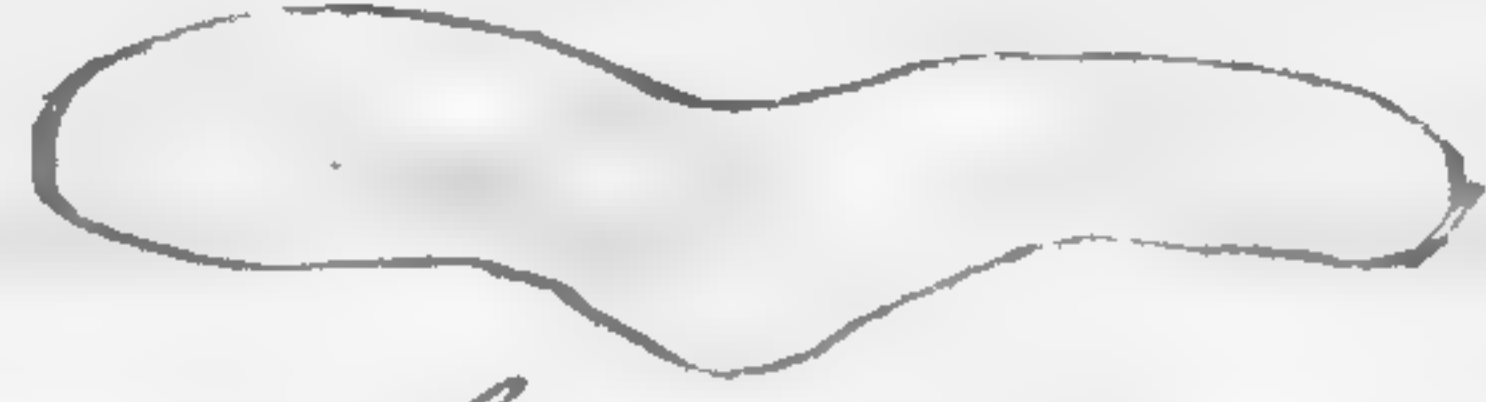
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GARDEN

Oct 11 45

True *A. grandis* with short dark green leaves  
white <sup>band</sup> on the under side,  section  
of leaf

2, the Colorado - Arizona & Utah *A. concolor*  
pale green, longer leaves, both sides covered  
with stomata & thereby glaucous  section

The form of the Calif. Mountain series  
intermediate and may unite both.  
and though Bolander and Brewer have  
collected many forms, they have  
not collected with a proper appreciation  
of the different kinds of foliage. I  
have written to Leonard ????

But I will tell you, when you  
see a cone, obtain one, or a few seeds  
and scales of one (as Bolander sent me  
several last year) try and get a  
leaf or a few attached to the base of the cone  
or the branchlet which bears it (not loose  
lying lying leaves!)

These Californian mountain abies are  
called *grandis* by Bolander, formerly  
*lasiocarpa* by nursery men, and now  
*lowiana*, and are much cultivated  
under both names in Europe. There  
seem to be forms which approach the true  
Oregon *grandis*, with greener leaves, and  
others that approach *concolor* with glaucous  
leaves; and I can not draw a



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GARDEN

How does the Californian <sup>Abies</sup> compare with the Utah?

a sharp line. Show this to Polander and tell him he must not get impatient with me, because this ten years question has not been settled yet! I have not had letters from him for a long time.

I see that our friend Sapham is dead - found dead floating in a fishing boat on the lake! Can he have been 73 years old?

I have news of several other near friends deaths - will have to follow soon I fear - been laid up with rheumatism again!

I need not mention *Abies nobilis* *bracteata* & *magnifica* (which is not *usnabilis*, though the Californians call it so) they are too distinct.

What about Duncan?

Our best regards to Mrs Parry, who, I suppose, is with you?

I have a photograph of a seaside scene of San Diego with Agave *shawii* (of the monument) in the foreground, have ordered one for you; you will be pleased to see it - or will you go to San Diego yourself - if so, tell me soon, for I would give you a very (very much so) "instinctive" letter, if you go.

Answer soon. Shall I send those Postal Cards?

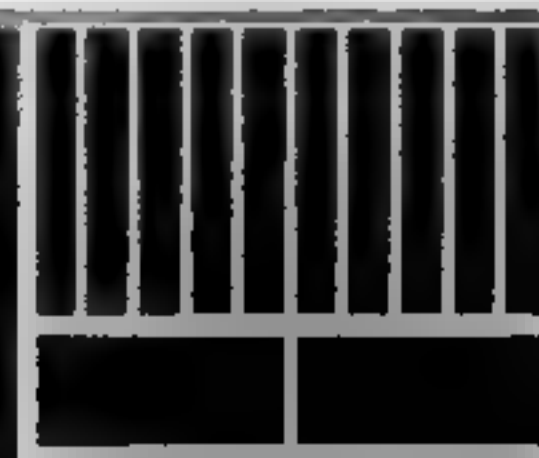
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Yours ever

G. Engelmann

Look out for *Abies* & compare with your Utah Experience.

Open and send sheet of the Californian *Abies* - *Abies* is recorded in the coll.



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St Louis Oct 29 1875

My dear Parry

Glad to hear from you

I don't know what had become of you  
recogizing your Yucca Wh & Agave?  
and located you down south!

So you are going to see Bernardino  
You must study me *Abies Douglasii*  
*macrocarpa* which a Mr King gets  
from these Mountains. They send me  
a cone and seeds, but I want  
specimens and all about it. I should  
like to find it a new species — but  
don't know where to look on. Cone  
6-8 inches long! — The question  
with me is whether any intermediate  
forms are found.

Another thing I want, and can  
not get is the *Arceuthobium* like  
*Phoradendron*, ~~some~~ (like the one you  
got on *Juniperus*) on *Libocedrus*.



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6/29/75

Bigelow got it - without fl. Bolander says it is not uncommon, but never obtained or sent specimens. Should like to examine and make out identity or difference with *Phor. juniper*

But *Abies*! Beg Mrs Parry's pardon, but *Abies* it must be!

I hate to tell what I think about them, but do not yet positively know and don't want you to talk about it as my doctrine, until I better satisfy myself. But I tell you as a guide for your investigations

*Abies grandis* of Douglas, the <sup>timber</sup> great tree of the Columbia Valley seems to extend to the Calif. Coast (Mendocino Bolander) but not to the Mtns and north to the British possessions - green cones, leaves dark green, without stomata on upper surface (or very few?)

*Abies amabilis*, which Newbery will describe and of which he sends me scales & seeds but no leaves, but which is cultivated in England

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Oct 29 75

under different names, has large purple  
cones and longer bracts - but is only a form  
of grandis, with very crowded (not bi-  
serial) leaves, dark green above, very white  
below, peculiar to the higher Cascades  
- try to find it there! - Nobody  
since Newbery seems to have seen it.

Abies occidentalis - a western form of A  
balsamea is peculiar to Rocky Mts, and  
is our grandis of Clear Creek; also goes  
Yellowstone to up to 49° and over  
into Oregon, where it crosses Douglas'  
Larocrape (fide sp. in Hb Kew) is confined  
there as in Rocky Mts to the higher  
Mountains - Hall got it on Mt Hood  
and mixed it with grandis. It flows  
branches and vigorous young shoots have  
short <sup>scaly</sup> cones, even spiny leaves. It does  
not seem to go into Calif. but may  
be on Mt Shasta!

Now we have A concolor, which  
you name well - broad curved leaves  
glossy, cones with stomata on the  
upper not grooved side, only on

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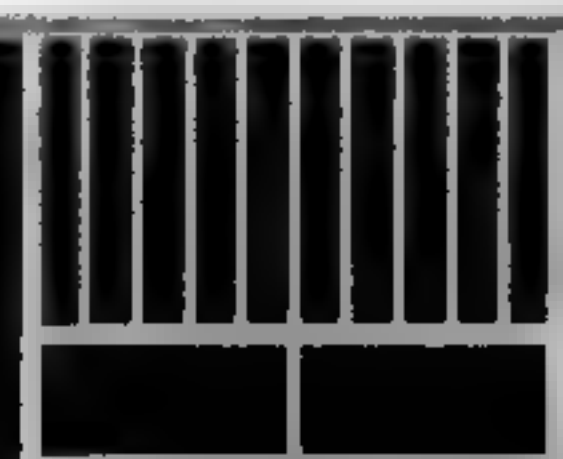
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young trees they may be somewhat  
grooved, and even slightly notched at tip.  
Here comes the tree which they  
call grandis in the Sierras. Leaves  
much longer than in the true Columbian  
grandis, with stomata on upper side.  
We will call it for the present A. Louisiana<sup>lowi</sup>  
under which name it is described and  
cultivated in England - distinguished by  
the long glaucous leaves at least of  
the young trees. I have seen and coll.  
it in England and Germany; but do not  
know the flowering and fruiting branches  
and their leaves. Leamon promised  
to send them.

I want you, who knows *ovoidalis*  
and *concolor* well, to compare it  
with the latter, with *ovoid*. It has  
nothing to do, but seems a connecting  
link between *grandis* var. and  
*concolor*. As at present advised  
I take it for a form of *concolor*  
and would like to keep it distinct  
from *grandis*. Compare well its



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2

Oct 29 '75

back and wood with concolor —  
 The form of the San Francisco Mt,  
 which Wheeler party got concolor  
 this Louisiana with concolor.  
 See whether you ever find the  
 broad short peltate leaves of concolor  
 in California

You will find in California no true  
 grasses except near the coast, I  
 think, but it is cultivated in  
 San Francisco "from Oregon seeds" —  
 Bolander sends fragments, and it  
 can always be distinguished by the  
 absence of stomata on upper surface  
 — Whether that is sufficient character  
 remains to be seen!

Hall neglected to get the grasses  
 (except a few branches) "it was too  
 common, and the same as the Mt  
 Hood plant." Vasey who sends  
 throughout the land for woods for  
 the Centennial promises to get me  
 every thing I want from Oregon  
 and Lemmon promises as to the Sierra

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but I want your impressions as to  
these trees — want you to see thousands  
and give your opinion.

Remains that Nut. for the Californians  
which is no nut for me. Their ambly  
is never Douglas' plant — but the true  
A. magnifica, Murray and is in Cult  
in England only since the seeds from the  
Sierra Sequoia etc began to come  
in, now only trees 8 or 10 feet high —  
The old plants from Douglas' seeds are  
widely different!

This A. magnifica and A. nobilis  
can not be distinguished in the foliage!  
but very much in the cones — whether  
in bark and wood, I do not know. Try  
and find out! They do not seem to  
mix — Nobilis not further south than  
Shasta — common in Oregon — but  
magnifica a true Sierra tree,  
with Sequoia.

These two form a section distinct from  
all other Abies (Pines!) by their square

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GEORGE ENGELMANN PAPERS



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Oct 29 '75

Leaves etc.

Remains only bracteata which is very distinct but of which I have no good specimen - no very young leaves or fruit bearing leaves.

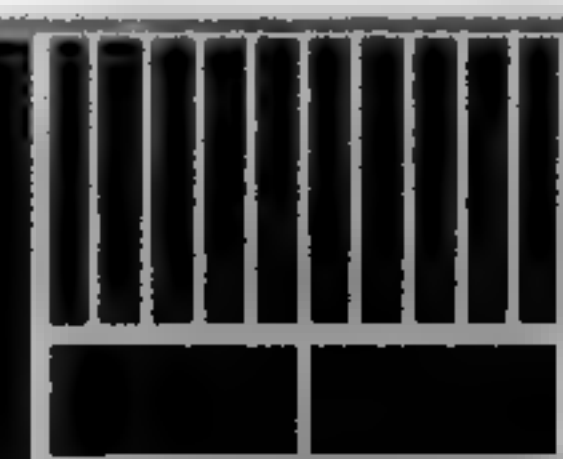
So you see - to recapitulate - that I recognize and put aside as not coming into question at all

bracteata nobilis mexicana  
and occidentalis

Remains grandis, concolor, and Louisiana and umbilicis

The latter I place with grandis - Louisiana probably with concolor - but whether they ought all to come together I do not know - can not get myself to place your Utah concolor with the Oregon & Deserum grandis.

You see I have given to you a full account, which you may promulgate and publish if I should die but not use other wise than for your own investigations as a sort of guide



You will be able to examine <sup>6/24/25</sup> ~~the~~ <sup>in</sup> ~~the~~ <sup>from</sup> ~~the~~ <sup>300</sup>  
at least cultivated trees of the different  
forms; but the Native trees ought to be  
examined and compared

Brandegee found a *sooidalis* in the  
SW corner of Colorado - the most southern  
locality known to me - on Sangre de Christo  
a elevation 8-9000' alt.

I may do very well for the seed dealers  
in S. F. to keep the names separate, even  
if they prove different forms of one species.  
But they ought to get *Amabilis* for  
Newberry's locality, "the 3 sisters" (with  
the large purple cones and the beautiful  
foliage - I have good sp. from English garden)

Good night! It is late; move  
to morning, about 8:00, my wife etc

I continue Saturday morn. You see  
my astonishment at seeing a letter from  
you <sup>of</sup> two sheets has borne its fruits!

But no more about Abies!

Solander is now, I suppose, out and  
can go back to more congenial business,  
and I will have a word from him  
occasionally; he used to be such



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MISSOURI  
BOTANICAL  
GARDEN

3 an excellent correspondent Oct 29 '75

I follow your letter and thus things will get a little mixed.

You speak of *A. Menziesii*. Where is it from? I have no evidence of its being found in California.

I just got your yellow *Erythronium*; new to me! Gray has just sent me his proof of the Californian - *Gentiana*. Your *Nuttallii* is *E. Douglasii* Gray n. sp.

Look for *Nuttallii* in Nevada - where my brother found it near Walker Lake. At first blush I thought yours was the yellowish *Erythronium* mentioned from Europe - but it is not - shall look into it - but where does it come from? Where???. Curse those 'orrid collectors!

May not this seedling of it grow on the coast and not on the Mts prove them two distinct species? as I suggested above! Or is it the *Coccoloba*? How far does it extend on the coast? - I identify it (see above) with the true Columbian *Douglasii grandis*.



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MISSOURI  
BOTANICAL  
GARDEN

I am glad that my names, *Deserti* &  
*Shawii*, have been adopted by nursery men.  
I will soon publish them. *Shawii*, you know  
is your Monument *Agave* to which I  
through your notes, directed attention. I  
have photograph (for you also!) of a  
splendid marine view of the shafts of  
the *Agave* shooting up like a 7 foot  
*Asparagus* just before blooming. Gray  
writes that Palmer's box is <sup>which he will send at once</sup> ~~fully~~ expected  
with full material. Thanks for the  
*Deserti* capsules; they come just right.  
The *Whipplei* I recognized at once -- of course!

Royal!! Nothing better to be expected  
from the creators of 50 Mexican *Pines*.  
Yes, they sent me "*P. allewiana*" from  
San Diego which was <sup>no</sup> *mophellos*.

I hope to get these San Diego *nicotian*,  
*Phloxis*, *Forsy* etc. but have  
not.

Yes, I suppose *Juncus* *Deserti*  
do well in San Francisco, but  
climate -- they say there was snow  
a few days ago!

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GEORGE ENGELMANN PAPERS



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Oct 29 '75

So Mr Parry wants to know  
all about my wife. She  
had much sexual trouble, dis-  
appointment etc etc and a severe  
attack of chills - Afterwards I  
had one too. But we are all  
right in every way, I hope  
She sends her love

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

Mention me to Kellogg  
pump him about Abies

Greene came here to see me  
gone east - will probably return to  
Colombo.

Got Quercus dumosa Nutt from San Diego  
is nothing but the old *Q. undulata*  
forma *Parryi*, which you collected  
in Utah.

I shall probably write soon again  
about *Erythraea* etc.

Now you have a big letter  
which, I hope, will bring  
a big one in return -

Yours ever

Love to Doreen

G. Engelman



Thank gentle hint on P.C.  
" 1206 Market Street  
San Francisco Cal.  
is really diplomatic and touching



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Dear Perry

St Louis Nov

1875

I begin this letter, to tell you, that your "yellow" Erythron is probably a white form (all these plants are occasionally white) of *E. floricand.* Benth. N. H. Gray (fl. sessile, 2 bracted etc) as now characterized by Gray.

I wish you could get me a full set of the Eryth of Calif. & Ariz. I will return them, if desired.

Jeffrey who in 1851 collected principally about Shasta Mountain gets several stands up of Abies and quercus as Coahuila Frazier River. Do you any one know where that is? It is not F. R. of British Columbia.

Nov 24

I just get your letter of Nov 13<sup>th</sup>. Your letter was "interesting" and nothing to change yet. On the contrary Lemon sends me a package of good sp of "*A. grandis*" which is altogether of concolor. Your remark that the Mendocino Abies bear fruit when concolor in the Mts. did not, is precisely - but then, concolor in Utah did bear fruit this year! and how is grandis in Oregon? we will leave that question for the present. #



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Nov '75 Nov.

P.S. It is me that opens the letter again to say, if you get across the San Felipe Agave Desert; of which you sent me seed for St. Francisco, make good measurements, send a few full grown leaves, fresh, and the points of more, long, slender, laterally compressed (always) with a narrow groove above. It don't seem to bloom with the same Cuneate horizontal branches as other allied species, but with smaller thinner looser panicles.

of A. Shawii (Monument)

I have no good flowers nor good fruit. - Palms got unripe fr. with fl. adhering.

Your old notes of 1850-55 are still the best I get!

Thank much to stir you up with soft flattery!

→ You might send (less than \$1.00) Agave plants by mail, I to refund expenses.

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2 #

Nov 25

Nov 24

If I get more of *Erythraea lutea* Hill I will see, do you mean that he will send me *Quercus*, or that I shall write him for them?

At San Bernardino you are in the heart of Douglas's *macrocarpa* and will be able to make out what it is. Palmer collects it in San Felipe Canon.

F. W. Ring sends it to Vasey with wood etc. from Gorgonio Pass.

Newberry collected it at San Felipe see above it - I have a cone of Ring's and seeds - please for Palmer; can we distinguish it from Douglas's, are any transition forms? Thus far only size of cone seems characteristic; my sp. is nearly 7 inches long.

I find a note that Brewer wrote to you 1864: "A. Douglasii as far south as Los Angeles or farther - more vigorous north, but with larger cones south."

The term Douglasii is also Mexican the cone cones confined to the San Felipe & San Bernardino Region, it seems.

I have Palmer's things - help a little no notes of any value; such as: A. Shawii is the handsomest species - Shawii for the Monument & Deserti for the San Felipe Range are already adopted names on the



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Nov 15 Nov 24  
Pacific coast; I am pulling them  
just now, shall send you a copy to San  
Bernardino by and by; you can criticize them  
I hear nothing of Rothrock, don't know  
whether he has returned.

Yes send by mail England's nuts  
I am just sawing to pieces all the nuts  
I can get! - There is a Juglans  
Mexicana known in completeness.

You do not mention Deussen. Some one  
of his folks sent me a dump paper  
with Extract of a letter of his - glad to  
get it. Does he spend the winter  
with you? is he working? He should  
send me meteorological abstracts.

And Mrs Parry is not mentioned  
either! My wife sends her love  
she is well and active; so is George  
and I not less!

Wish I was with you! <sup>San Diego</sup>  
Do not neglect the oaks, if  
which Palmer sends several.

Yours truly

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS

Engelmann  
write soon! You have so little  
to do now! When you get to San Diego  
you may study P. m. Parry



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There is a second *Ustiligma*, W. Palmer's form from Arizona

Mo. Nov 29 75

Dear Parry

Your *U. ligaria* Kell  
received today proves to be *Clemella*  
*obtusifolia* Torr & Frem. The leaves &  
stipules & calyx are curious

I got a dry or two ago quite  
a lot of flowers (fresh) of *Agave*  
*phacelia* just in time - Flowering  
in November. Parker sends

Photographs and Hitchcock  
specimens! A splendid species.  
Your Monument *Agave*, you know

I now know more about  
this than almost any other  
of our *Agaves*, while a year  
ago I had only the meagre  
notes from you!

Will you rediscover *Pitheca Parryana*?

A letter from Duran for Duran's  
surprised me - seems to be  
bright. Better not stay the  
winter at home

Send off your Postal Cards!  
yours ever J. E.



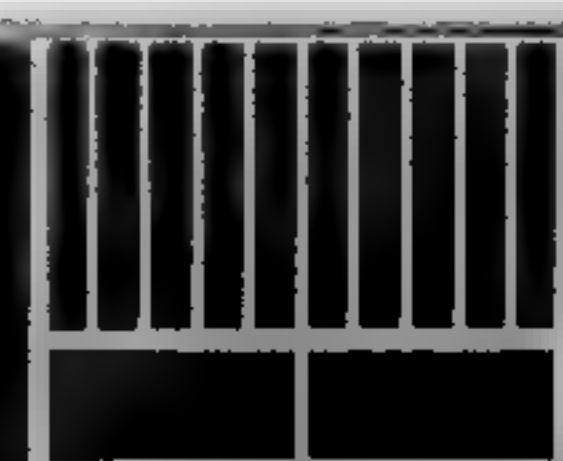
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St Louis Dec 8<sup>th</sup> 1875

Dear Perry

I write, to keep you warm! But I should soiled!  
What did you tell Lemmon about my ??  
Let him find out himself! However  
he seems to take it kindly. He writes  
of your magnificent plans, to explore  
the Sierras from San Bernardino to  
the Columbia! Why, that is grand  
and will finally settle our eternal  
Abies trouble; it is pretty nearly  
settled with me, but the question  
remains, whether I am right  
on the Californians about *A. amabilis*.  
Therefore: how far north (or as far  
that, how far in any direction) *A.*  
*magnifica* extends. I believe it  
limited - never to Shasta, never to  
Oregon or the haunts of Douglas'  
*amabilis*. As I told you before



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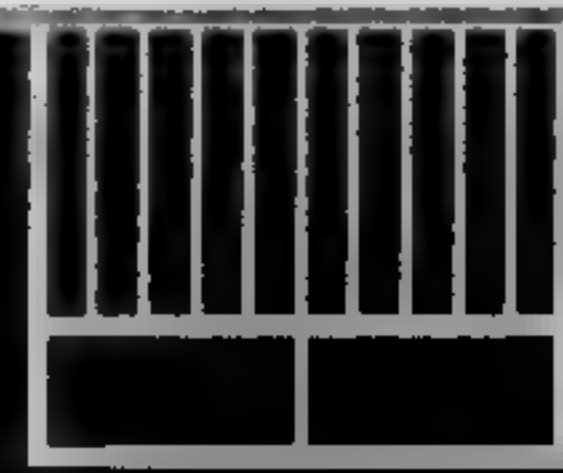
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*amabilis* is the grandis on  
the Mountains, and comely  
interpreted by Newberry -  
I have come to that conclusion  
already in England; I have  
told you that <sup>purple</sup> "red" and "apple green"  
cones are good enough in their  
way, but that I have found in  
the Black forest *A. pectinata*  
with some trees with purple, other  
with pale green cones side by  
side - etc etc.

*Amabilis* has a denser foliage,  
bright green above, brighter white  
below and grows high up on  
Mountains, the true grandis on  
the valleys - Both must meet  
intermingle, some where and  
furnish trees which you don't know  
which is which - But no magnifica  
is with them - But Lyall and  
Hall have found enough of the  
Rocky Mts grandis (so called)



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Dec 8 '75

in Oregon, Mount Hood etc —  
always distinguished by the leavy  
of fertile shoots very short & acute  
even spring!

All this for next fall! ~~no~~

I have more such Bonchiel attached,  
as I have now (Empire Sept 24!!  
again, just getting over one — I may  
not be able to write you an  
"instructive" letter next summer!

Well, My San Diego friends  
sent me two weeks ago a splendid  
lot of Agave Shawii flowers  
fresh!!! Hurrah!

Just in time. I am now  
permuting the close of my papers  
and your old photos of Parry  
and the new series of Shawii  
have helped me a good deal.  
The promised stereos, of flowers  
of Shawii have not yet come.

If you write a little more  
lively, I shall try & keep up.



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good for Gray! Got a lot of *Erythronium* specimens  
from him to examine: Dr G. E. 2003 sent Philadelph  
sent in September!

But if you get into moral  
and intellectual winter quarters  
in your sunny land down  
there, I have to give you up.  
I felt 30 years younger  
when I heard of your plans  
and Linnæus joining you  
and wanted to be one of  
the lot but but but  
and as many books as you chose.

By the way Linnæus seems poor  
wanting of means - would it be  
well to offer him 30 or 50 dollars  
to be repaid in specimens?

Regards to Mrs P  
from both - wife well, kitchen  
preparation for Christmas.

Yours truly  
G Engelm

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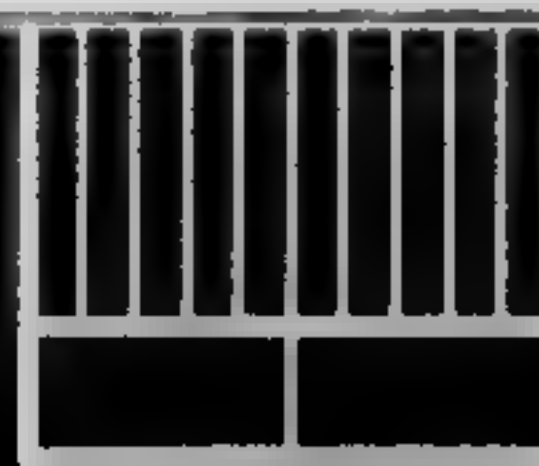
St Louis Dec 17 75

Dear Parry

unfortunate I not come alone  
scarcely getting better of my bad  
bronchial affection, I spin my axle  
so that I find myself fixed in bed  
since Sunday! But I have finished  
Agaves in bed - they are at the  
printers now - Every body wants to  
know about Agaves - Letters from  
Hropf & Meckan have just been  
answered - Much publish soon,  
correct or not - a beginning must be  
made. Have not been able to find position  
character to distinguish occidentalis from  
Calsam!

You ought to distinguish macrocarpa  
from Douglasii - I have Douglasii from  
Mexico, just like the California, a little  
larger than Colorado - but that macro-  
carpa seems peculiar. Study it well  
bark - wood, foliage - send for  
section of bark - Is it as thick, mottled  
(on the cut) as the Colorado bark? bark wood?

You seek cones of concolor 1884 -  
not 75 I believe - So I was mistaken.



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Dec 17 '75

And the *Mudborne Abies* which I h  
from Bolander 10 years ago is exactly the  
plant - and you say fruits this year '75  
How is it in Oregon?

Thanks for that fine *Quercus* - but  
can not examine it now - I think  
I know it, will study it as soon as up.

Writing is difficult - but - fatiguing -  
and I have nothing more to say -  
write soon about Desert

Does the *Agave* make abundant shoots?  
die after flowering? send shoots

by mail (after winter part!!!)  
How large the stalks? bracted much?

How much could I see at a glance  
where now I must employ hun-  
dreds of fish hooks, (with bait  
and get off so little or  
nothing!

Remember us to Mr. Parry  
Happy Christmas!

your son

MISSOURI BOTANICAL GARDEN  
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This is only a sign of life  
to keep you warm in this  
cold weather

you this morning



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St Louis 21 Dec 1875

Dear Parry

Pay your debts before  
the end of the year! Here I am!  
Up and about again.

Get lots of good things for you  
but I find myself grumbling yet!  
Is it not too bad.

Your *G. crassipetala* is good, but  
you have lost nothing by being not  
crediting you with its discovery. It  
was described before by Lieberman

as *G. chrysolepis* and is a very variable



*crassipetala*



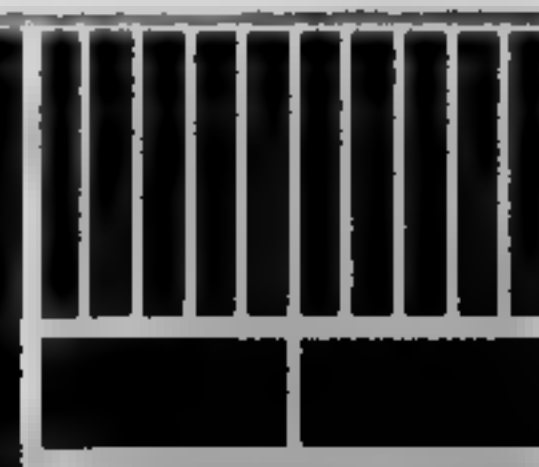
*chrysolepis*



*vacciniifolia*  
(leaf)

plant. Palms has also sent it from  
Guadeloupe Island.

*G. agrifolia* ?? I am soaking now.  
The true *agrifolia* has a peculiar fruit  
— will see whether this agrees. — You  
ought to have looked up the remnants of  
styles on fruit — After being in your long  
bag and then in the mail no vestige



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Remains. Look for ♂ & ♀ next  
spring — *chrysoepis* has very peculiar  
fl. by which all the forms can be recognized  
Yes, if I had no other Corresp. but  
you I might hunger and starve!! Have  
you very coolly tell me that you have  
found a parasite on *Libocedrus* — by  
goodness heavens, why not send it??  
But as I say, good, obliging Semmon  
sends me *Libocedrus* with the parasite!  
Your punishment shall be, that you must  
pick out the male plant, for I only  
send female fl. fr. — I have known that  
plant above 30 years, when Bigelow  
picked a sprig, which Torrey & Ait  
Bend named *Arctostaphylos*? — I regard  
it as a *Phoradendron* allied to *Ph.*  
*juniperinum*, but only now I must  
and can say that it is a var. of  
that species — except the slenderness  
I discover no difference, unless the un-  
known male should furnish it.  
These flowering *Libocedrus* remind me  
of Rome & Naples where very fine well  
grown specimens were flowering in  
clusters in the public walks.  
Your desideratum, Oak is *Q. Sisonensis*

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31 Dec 75

also very variable in regard to size of fruit. Yours is slenderer and smaller than I got from Bolander.

I want more acorns - but no! hold on! Haven't I all of Palmer's and Brewer's here to drive me in this deluge of oak! - But, the more the better.

That Dougl. Macrocarpa has narrow off acute leaves - look at them, see whether you can discover more or better characters.

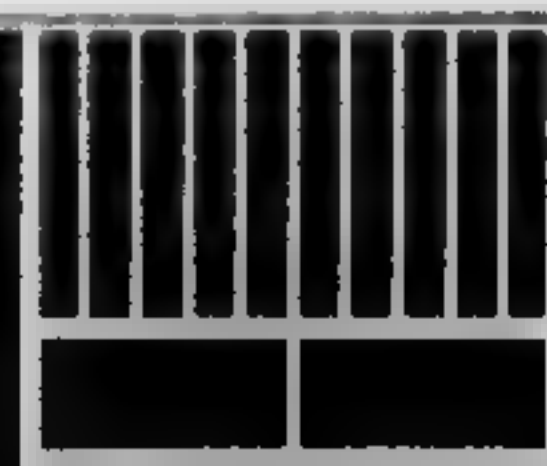
Why is not your *Alnus* concolor? I have been examining that dry Lemmon's specimen; but find them and the Rocky Mt *concolor* the same. You say the bark is black & furrowed - that alone can not outweigh all other evidence. No the Californian "*grandis*" is - *concolor*, and distinct from the Oregon *grandis*, and the Mendocino is same as Oregon!

*Alnus*! No leaves or base of cone! you might have sent them!!

Today I got your P.C. of Nov. - stamped "missent to Boston" stale news!

That 3 feet high sapling of you *A. concolor* has old leaves - should like to see you again (not grooved)

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specimens, with grooved leaves

That "root" of *Y. Whipplei* represents the fibres  
of the leaves - it is curious.

I almost forgot your *Gent. ...* plant.  
Today I have studied it, find it an *Pustonia*  
and probably new - no *Pustonia* known  
in California - of the name *Perryi* - *Paryanum*  
was not getting stale, I would call it  
*E. Paryanum*. Gray has done & printed  
already the *Gentiana* of the Calif Flora, but  
this must come in yet.

Did you not meet with *Agaves* of  
the Desert? Give me the dimensions,  
size of leaves etc etc - Whenever you meet  
*Agaves*, cut off half a dozen spines from  
the ends of leaves. They seem characteristic  
and easily kept you know.

Well, this will do for today  
and <sup>this</sup> year!

Remember also find you about *Abies*  
on *Abies*.

I had more to say - but forget now.

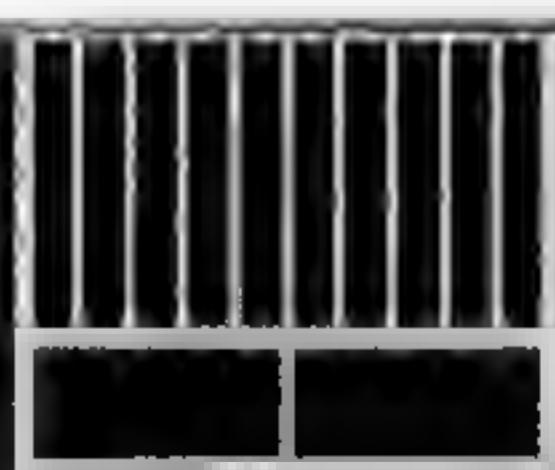
I am up but have not been out  
yet - next week will try

we are well

Yours truly

Happy New Year to you & Mrs O.

J. Engelm



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31 Dec '75

Gardener's Monthly & Agriculturnist

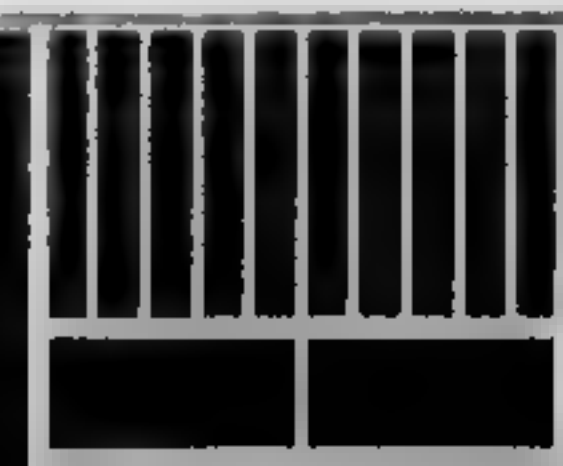
Washington Jan 1876 p. 21

*Abies macrocarpa*, a new Coniferous tree  
by Dr Geo Vasey

F. M. Ring of San Geronimo Pass.  
sends cones, twigs & description 1874  
& Palmer also cones & twigs 1875  
Found a Cone in the Department Coll.  
of Newberry's 1857. named by Parry  
& Torr. Exped. A. Dougl. var. *macrocarpa*  
(Nobody seems to know that Parry was the  
first to discover it but why did Parry  
not collect it??)

Vasey snatches at the honor to  
introduce "a new Coniferous tree"  
but gives no character - mentions  
that twigs are <sup>branchy</sup> more spreading,  
slender, cones & seeds larger, bracts  
not so much protruding over scales.

Well, I must do, in this, as in  
other instances, what others have left  
undone, must work up the thing.  
I have written to Vasey and hinted  
at this matter, thought he might



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turn out right, but the matter had  
to be investigated first. The Micro-  
scope has thus far not revealed  
characters to me. By the way, ~~A~~  
Gray vindicated my idea expressed  
years ago that we would have  
to look for the stomata in *Coumfer*.  
I see the ideas developed in European  
publications, and I find that the  
microscopic structure is of the  
greatest importance! will help  
us distinguish species, where we  
have only the smallest specimens.

I wrote to Gray about your  
*Eustoma*. He thinks it is the  
Mexican *E. exaltatum*. I don't  
know.

I have printed Agaves and send  
you a copy herewith. But I hope  
to get from the Photographer Mr Parker  
of San Diego photo gr. plates, for  
A. Shaw. I have had consulted  
to pay for them, and my fear



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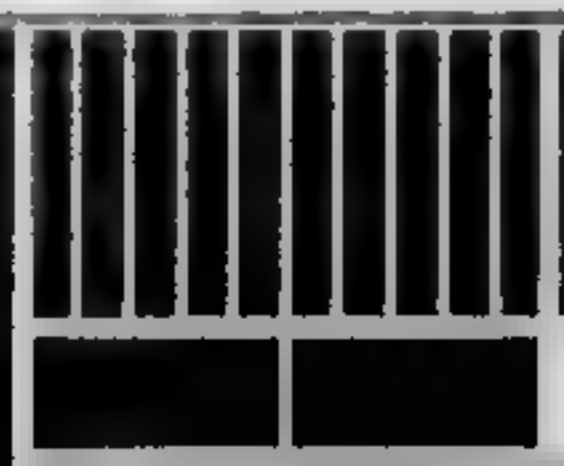
31 Dec 75

now is only that Parker can not  
furnish them, or do it to late. I  
shall send them to you, as I should  
whenever they come.

See whether you can give me  
any additional *Agave* items or  
corrections.

This *Quercus fulvescens*, = *crassifolia*,  
= *vacciniifolia* = *chrysolepis* is curious  
in the structure of the fruit. While I was  
confined, unable to see patients I did a  
heap of work and found that those  
quiet morning hours accomplished  
a good deal. I overhauled all  
Brewer & Palmer's *Acorns* rec<sup>d</sup> from  
Cambridge. But I must go back.

Dr. Candolle found, that of the 6  
ovules of the female *Quercus* flowers  
1 only develops (all well known) and  
that 5 remain abortive but visible  
(new) in some oaks (white oaks) at  
the base in others (black oaks) at the  
tip of the acorn. I believe I wrote  
about it. If you open one of your  
*agrifolia* acorns you find, after carefully



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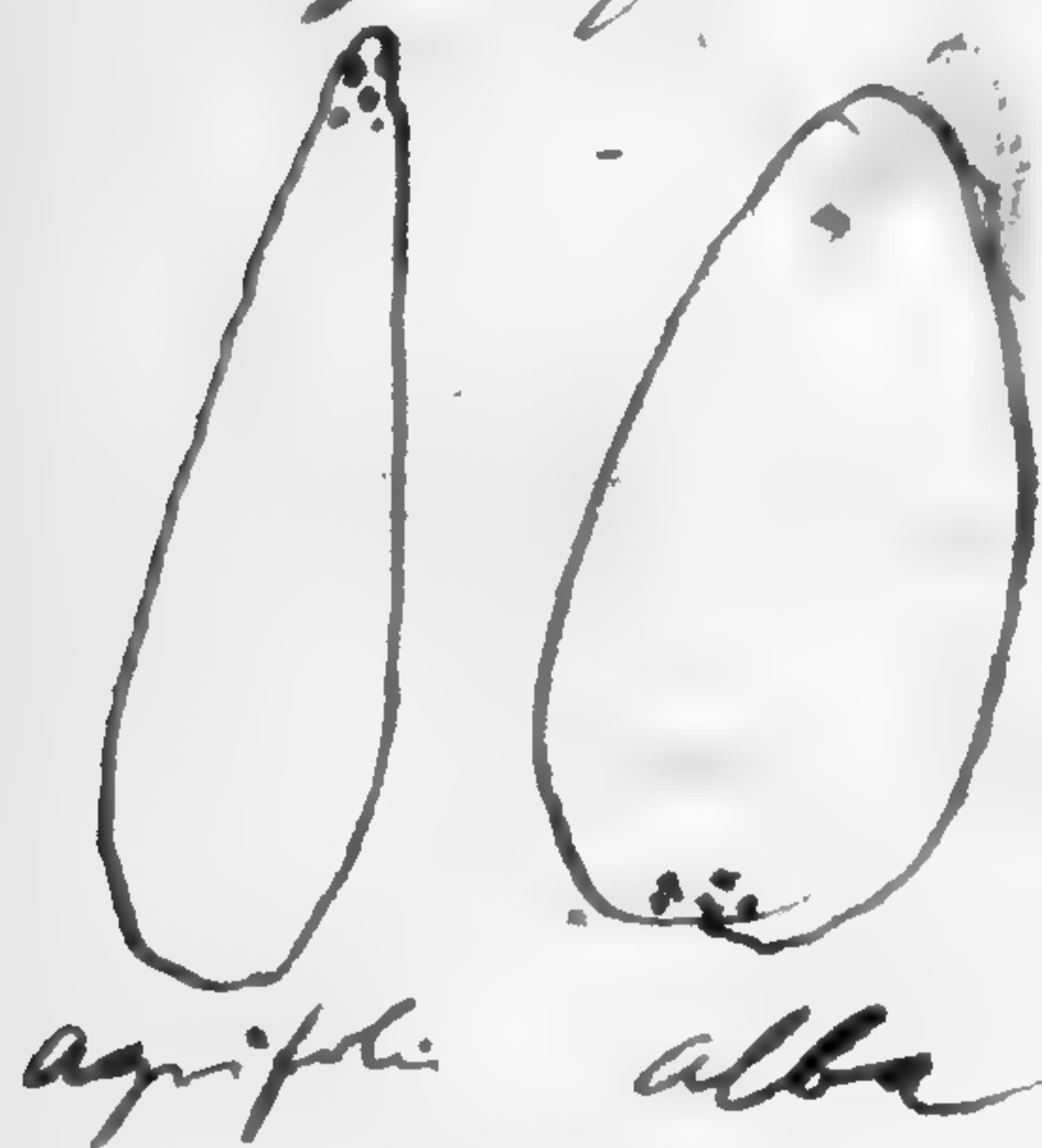
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31 Dec 75

removing the outer shell, on the coating  
of the kernel the 5 ovules. In your  
*agrifolia* (*parvifolia*) they are very distinct  
in other Californians, all but to alba  
they are found at base, but usually  
more difficult to find.



Now in some forms of *Chrysolepis*  
I find them below but not at  
base, & others scattered over  
the side. It will require  
the examination of many  
acorns of different varieties

to find out the rule. In some of  
your cross-pouls which I hesitatingly  
destroyed I could find nothing at  
all — worm eaten or mouldy!!

I find another thing which  
may be a valuable character.  
Some shells are smooth inside, other  
like your little *agrifolia*, white tomentose.  
The examination of many acorns  
will show whether there is any thing  
in this.

But more important to me is  
this variable *Chrysolepis* in regard  
to its annual or biennial maturation.



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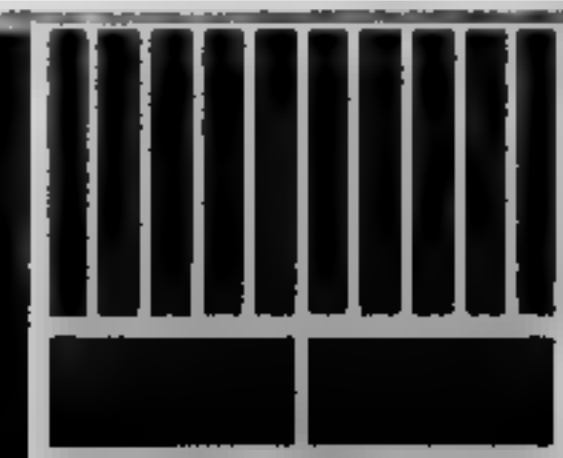
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31 Dec '75

Torrey's original figure of *Crassipoda* seems to indicate biennial fruit — some of Brewer's specimens seem to be annual. Which is correct? or are there two different forms one annual, one biennial?

You know that in biennial fruited Oaks we find in winter young undeveloped fruit, and in summer both kinds, just as in *Pinus*. A tree may not bear every year but it may be difficult to find both kinds of fruit, one a year older than the other, on the same tree — or on the same twig; still I have often succeeded in getting such specimens. But even if not undeveloped fruit in fall or winter would only be found on oaks with biennial maturation.

I find young, half grown, acorns in summer to show the



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31 Dec 75

abortive ovules very nicely.

By cutting open a few dozen acorns you will readily find them.

If you get acorns of *Crassipoda* cut open the shell, take the kernel (with its membranes!) out carefully and if uninjured by worms etc, wrap them up carefully and send to me.

I have at last got \$10 for Siler & 40 for Johnson for Germany and orders for more seed, but the Abies was all spoiled!

By the way this A. M. D. T. M. will fruit this year 1876 - <sup>you</sup> ought to make arrangements to get plenty of seed to Europe.

My Esprit friends would probably pay well for it, if they had the Monopoly. - We must have its flowers

I have not heard from you lately!

Yours  
G. Engelmann

to help them out if possible.

I wrote you on the 4<sup>th</sup>



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"Take your time" in deciphering this!

St Louis Jan 31 1876

Dear Parry,

This morning I got

yours of Jan 20 and this evening  
your PC & Quercus sp.

Yes poor Schott was sick last  
winter, chronic dysentery, I think,  
wrote to me in April - and died  
July 26<sup>th</sup> as his brother in law  
Tafel in N York, I believe a  
homoeopathic doctor, informed me  
enquiring about the disposition  
that might be made of his  
Herbarium; together with a little  
house pretty much the only thing  
he left. - I have not heard  
from them since; must enquire  
of Vasey.

Yes, thanks for the "chunk" of  
A macrocarpa. How is the heart-  
wood - reddish like Douglasii?

I wrote to Vasey, we all would  
have been greatly obliged to him  
if he had not only named but  
described and diagnosed his "new  
species" A macrocarpa. He answered

Shaw will pay for Schott's letters for his expenses & shipping to the Smithsonian Institution. I will get them from him for the same.



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Jan 31 '76

that he wanted to draw all notes of  
botanists to this remarkable tree  
which, after all, he believed <sup>would turn out</sup> to be  
essentially a distinct species. Well,  
we have to let him have the little  
credit. I believe I told you  
that I have seeds from Vasey  
good for description, coll. 1874  
but of course it would be wanted  
for cultivation though too much  
southern for our latitude.

Now for *Chrysolepis*. I have made  
a preliminary examination of the very  
numerous specimens of *Breweri*, from  
all parts of the country and all sorts of  
localities - trees and bushes, large  
and small leaves, an extreme Mountain  
form is I think *Q. vaccinifolia*  
of Kellogg almost glabrous, no scurf,  
some forms pubescent, others not. - And  
all transitions from the *Crossipendula*  
(which he scarcely has as *Carpinus*  
yours) to the small thin cup. - mostly  
with the red-brown fuge (pubescent!) but  
some also without it. The male  
flowers are characteristic, and some

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them I have ascertained that Palms,  
Oaks, from Guadalupe Island  
also belong here.

But the question of the maturation  
of fruit is quite an interesting one  
and more difficult than ~~one~~  
would think - I incline to the  
biennial fruit, from some of  
Brown's specimens; but others,  
as I believe I have told you,  
have mature fruit at the apparently  
youngest branchlets. Now, either  
this fruit is annual, or these branchlets  
made no further growth in the second  
season but to mature the fruit.

Is it possible that in that arid  
Country and in arid seasons  
they may do that? Close exam-  
ination in the Country must decide  
these questions. Your specimens  
shows axillary buds, but no  
female flowers. - It is possible  
and it occurs here too that  
these trees bear more every  
other year, so that you may find  
- spring - on the young shoots of the

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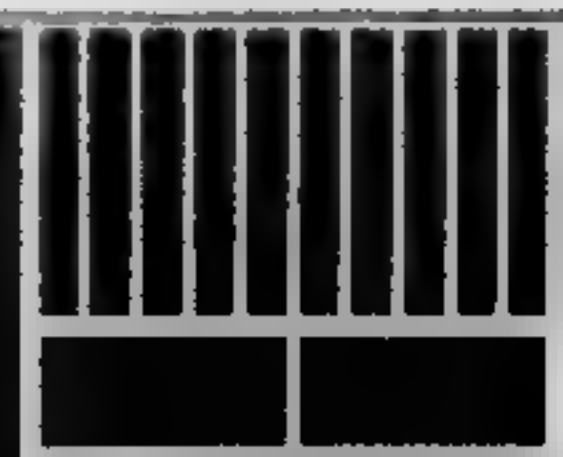
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season, with half developed leaves,  
the female flowers, and, I believe, towards  
the upper part of the young branchlets, while  
at the base the male fl. develop.

Of course in all oaks, (annual & biennial  
maturation) you would find the ♀ fl  
thus - but in the biennial they do not  
develop the same season. There is  
no doubt that among Boerhaave's are  
some with old fruit and young - just  
as you find it in *Q. Coccinea* or *rubra*  
or in California in *Q. Sonoranensis*  
and *Wis. ligens* - but where the leaves  
are persistent (evergreen) there is  
a little more difficulty.

I must add that this confounded  
*Chrysolepis* has other peculiarities  
which class it with or near the  
White and Live-Oaks but is  
apparently distinct from both Black  
& Whiteoaks.

I believe I wrote you that  
Palmer collected a number of  
shrubby <sup>small leaved</sup> forms back of San Diego  
near San Felipe and near the  
boundary line, - and have  
sent you leaves of them.



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Jan 31/76

I have seen with myself a number of specimens of these oaks in the mountains of California. I have seen them in the mountains of California. I have seen them in the mountains of California.

2. One of the peculiarities of these Oak is that the Aments spring not only from the axils of the budscales at the base of the young shoot (as in our oaks) or of the lowest young leaves, but also from buds of last year near the top of last year's shoot, in which case they are paniculate. Of course nobody collector less than any body else, pay attention to this and it is only here and there that a specimen is met with which <sup>accidentally</sup> shows it. — If you collect these oaks or any of its forms in flower, pay attention to this! And here I will tell you one thing. You collect things in my line largely and charge me accordingly — and also for any thing you send — you must have quite an account already if you add up the post stamps alone. You need not feel any deluging in these things.

Enough of Oaks! — No!  
Yours California Black oaks are

- 1. *Quercus Sonomensis* (= Kelloggii etc) <sup>all over the State</sup> near *Q. rubra*
- 2. *Q. wislizeni*, similar in fruit, with narrow oval, lanceolate, entire or sinuate deciduous or partly evergreen leaves. Anderson Valley etc always north of Trice

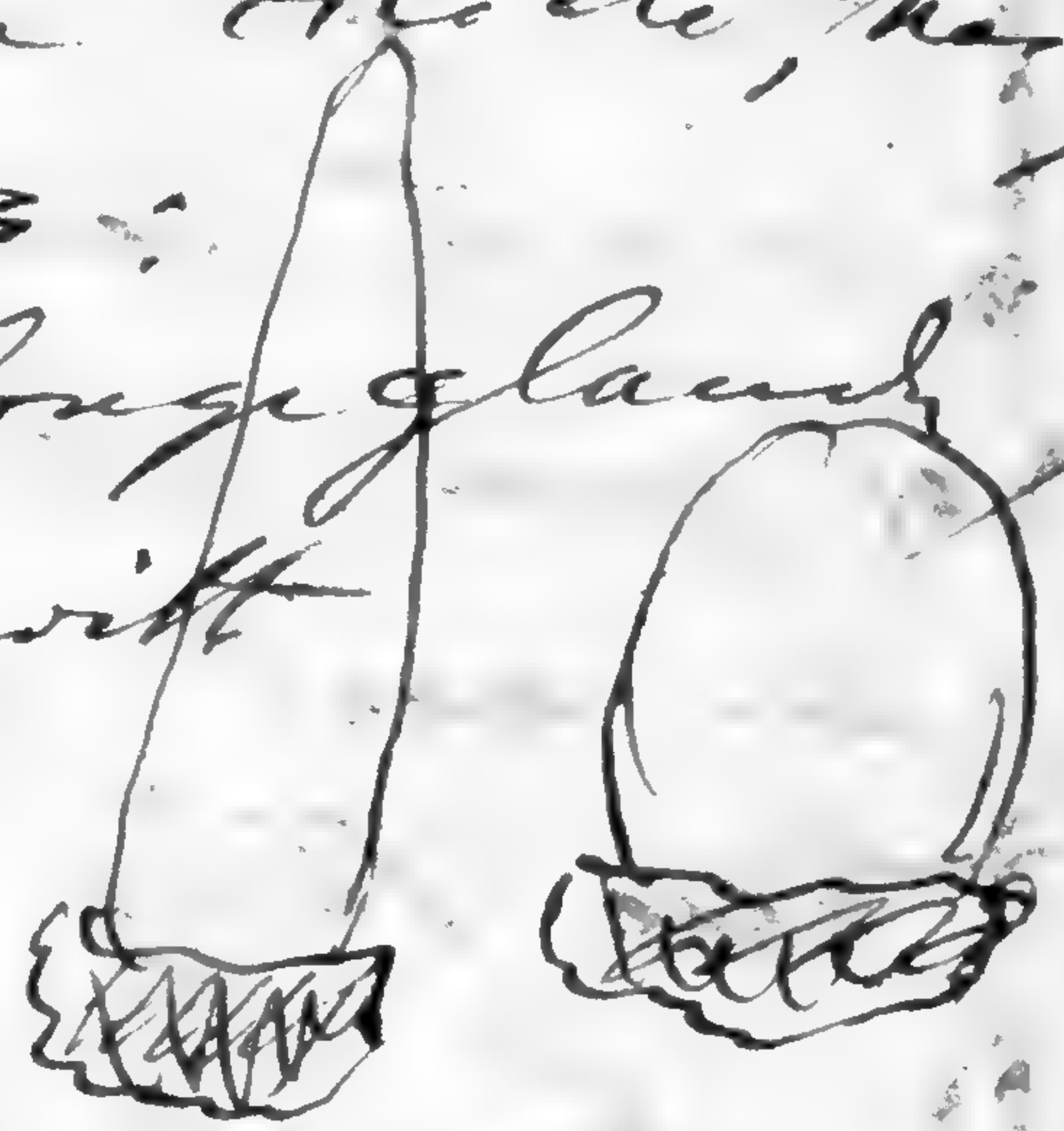
3. *Q. agrifolia* tree or shrub and all  
 sorts of variation; with acorn  
 similar to last, but annual fructif.  
 therefore a curiosity in its way.  
 But in my Classification of Oaks  
 soon to be published, we have  
 black oaks with annual and  
 such with biennial fructification  
 (also one of the former - S. Carolina)  
 and white oaks, the same  
 a white oak with biennial fr.  
 is that curious *chrysolepis*.

The white oaks are such  
 of with large, gray tomentose buds

4. *Q. Garryana* } which perhaps belong  
 5. *Q. Douglasii* } together.

6. with small bright brown ciliate, hairy  
 or almost glabrous buds:

6. *Q. lobata* (Hardeni, long gland)  
 Brown has a form with  
 short oval glands  
 probably not distinct  
 from the others



Therefore attention! to  
 form of glands

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7. *Q. undulata* to which *megala*,  
*berberidifolia*, *dumosa*? may  
belong.

Whiteoaks with biennial maturation  
& *Q. myrsocolepis* of which enough  
is already said.

These 7 or 8 forms probably  
comprise all the species of  
California — and *Douglasii* I leave  
at present only on account of  
Hooker's name, but iconoclast  
that I am, I fear I have  
to break it down, <sup>also</sup> leaving only  
7 species.

Now, again, enough of oaks!

Rob Carr is under the weather  
overworked, and is going with  
his wife to California <sup>for a few months</sup> and all  
over the state; offered to take me  
along! You may imagine how  
my youthful (useful) heart  
leaped — but "sober second thoughts"  
as the Bureau said, bade me  
decline. It would not be  
much benefited any how — but



What a pleasure to meet you  
there & study. Pres & Orby  
in loco with you. <sup>I have too much to do</sup>  
<sup>at home to straighten up</sup>  
<sup>my things</sup>

I do not know what Lemmon  
has discovered, but my mind  
is made up about *amabilis* and  
I have told you that it is a  
people (and forms Mountain) of the  
true *quadrifida*, which is cultivated  
in England from Douglas's seedling  
a single one having been saved  
and propagated. Newberry was the  
only one to find it, <sup>after Douglas</sup> describes it  
well and well contrasts it with  
*q. quadrifida* as he calls the Sierra  
tree (concolor) I had a few leaves of the <sup>Bradley</sup>  
<sup>specimen</sup>

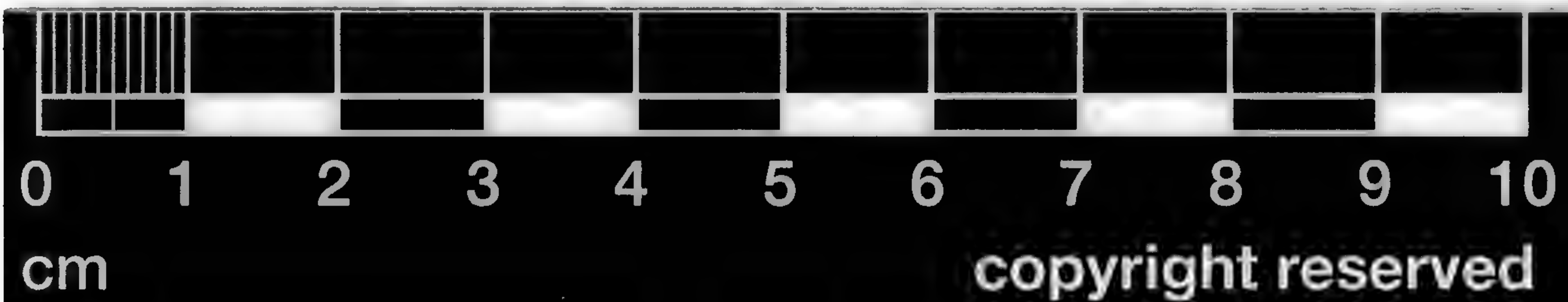
But I am getting garrulous  
when I get on these topics  
and I better shut up!

Remember us to Mrs Parry  
and believe me

that you will have to look sharp  
for oaks oaks oaks! or meet  
with the displeasure of all good men and  
Yours G. E.

Very cordial regards to all  
of yours  
Thankfully received,  
as requested!

and in a separate  
the oak  
very kind for minutes  
but then!





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far south of San Francisco.

I find your  <sup>Calif</sup> whiteoaks (excluding  
now the peculiar drystepis) easily  
separated in two groups, one with  
large tomentose or hoary buds   
of ashy colour, and a second one  
with short small bright brown smoothish  
or ciliate or slightly pubescent buds 

Cook, Thun, for the buds.

The former comprises Q. Garryana  
and Douglasii, which I surmise  
are not to be distinguished. The  
others undulata, lunosa, pungens,  
berberidifolia and I almost suspect  
even lobata, though that is a stretch.

You have none of the first in  
the south, but the others are  
very prevalent.

I would class these in deciduous  
and in ever green forms <sup>(species?)</sup> the latter  
comprise <sup>a</sup> the spring leaved Cerberidifolia:  
folia, which is probably not different  
from Sanroyi <sup>Torr</sup> and pungens <sup>Lehm</sup>, and  
lunosa Nutt.

b. the oblong or oval leaved Q. oblongifolia.



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also Feb 7, '76

Folia Torr, which was collected in your part of California, San Gabriel etc, and has often a few spiny leaves

Among the deciduous is the common undulate with sinuate - lobed or sinuate - Toothed leaf, probably always a shrub.

b. the broadleaved, more lobed form (something like *Q. stellata*<sup>obtusiloba</sup>) usually named *Q. gambelii*, which you know from Colorado & Utah - shrub or small tree.

c. a form hitherto unknown to me "Common on the plains of Los Angeles, a <sup>middle sized</sup> large tree" with oblong leaves, seen only in fl. - another form of same locality, also a tree, has sinuate or undulate leaves. I enclose a few young leaves of this "large tree" which you ought to find, and make out. No mature leaves nor fruit seen.

These are the white oaks.

*Q. chrysolepis*, the live oak of California, is peculiar. I am now satisfied of the biennial character of the fruit but also of the fact, intimated before, that many bracklets, bearing fruit, do



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(make no new shoots or leaves)  
not grow the second year, except  
maturing the fruit. I find several  
sp. with very young fruit in the fall  
and one or two with old and young fruit  
on same specimens. But they may, usually,

not bear every year, and their often not growing  
is very deceptive. Examination into this... probably, but  
The Black oaks are

Q. agrifolia with annual fruit

Q. wislizeni somewhat biennial with  
biennial fr.

Q. sonoriensis with biennial fr.

Q. chrysolepis quite a peculiar  
thing — also with biennial fruit

Of these I know no doubtful varieties  
but the White oaks! Oh!

Now you look sharp for those  
White oaks, their buds, acorns etc.  
— don't forget that Los Angeles tree.

More anon, if you  
have not got enough yet!

Yours ever

J. Engelmann

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St Louis April 7 1876

Dear Drum

young of March 26 and  
Pala & Dasyt. seeds are in —  
Thanks — the seeds are good. Das.  
is probably Bigelovii, which B. found in  
New Mexico — SW Arizona — the  
only caulescent I of our flora, like  
yours. In my copy of Bot Board  
I made a ? at "stem 2-3 feet  
thick" but yours 18 inches make it  
not impossible. It seems the same  
thing — your leaf specimen sent is  
incomplete as it don't give the point or  
tip which in some is very thin, filiform  
in others acute. Bigelovii is said  
to have a wide pinnule, 1 foot  
diam.

I am busy professionally and  
glad that I have finished Calif  
Cactaceae, I would have no leisure



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Apr. 7 '76

now for it. Next will be *Quercus* —  
more an introduction than otherwise

Don't you find new *Cacti*, such  
as Bigelow collected: *Ech. polyacantha*,  
and the *polycarpus* the fruit of which,  
ripe in March, is enveloped in wool.  
Bigelow got it in the desert. Seed  
plants and especially notes are  
desired

There are also no doubt more  
new prostrate *Erythraea* in California

I have written so much on  
oaks without eliciting an answer  
that I may as well shut up.

Had a good letter from Sargent,  
his health seems not worse, has  
more zeal and seems lively and  
working — but you know of how.

Had you confer with Linnæus  
about those \$20 I have offered him?

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Remember us to Mrs P.

Yours truly

G. Engelmann



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28 April  
Dear Parry I send this of as written, your own *Q. E.*

Quercus. I have directed your attention already to the question of Vernation the folding of the leaves just emerging from the bud.

I wish now to ask you to pay good attention to the persistence of leaves. Evergreen and Deciduous Oaks.  
May 20 1866

Decidedly evergreen are *Q. Myrsocarpis* and, I believe *Q. Wilczewi*, and some of the shrubby white oaks of the South —

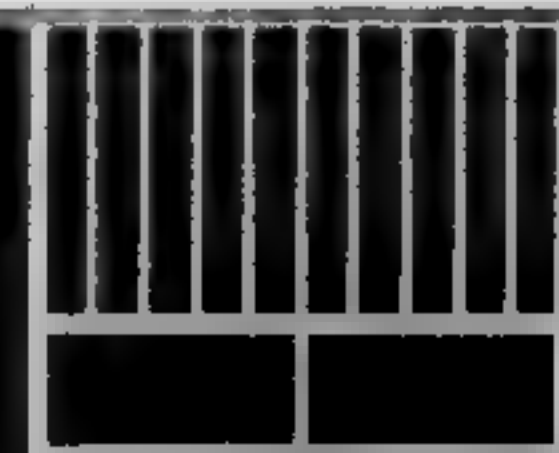
*Q. agrifolia* seems intermediate. DeCandolle 1866 I believe he still studied such things, informed me, that he found flowering *agrifolia* with and without old leaves. — Therefore it seems a doubtful character in this species.

In some species (same in Europe and Asia), especially in colder climates, the leaves persist in winter, but fall when the buds swell in spring; a real evergreen oak ought to show the leaves of the year before at least till the end of summer — sometimes for the greater part of 3 seasons.

Look out for

Vernation

Persistence of leaves



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Specimens ought to be so gathered  
that they show the persistence of old leaves  
if they do persist. May 20 '96

I find that DeCandolle speaking of the  
bimicel maturation, already makes the  
remark, which I made in regard to  
*Chrysolepis*, that fruitbearing branchlets  
sometimes do not grow or <sup>not</sup> make  
new leaves in the second season, their  
function being only the maturation of  
fruit. So this is settled, by  
authority, curious as it may seem.

*Argyrotamnus serratus* Mill  
Your plant is *Aphon serrata* Torr & Bolander  
from the desert.

The male flowers in *Quercus* have more decided  
characters than I thought. You'll regret even  
old effete catkins which hang to an oak bush

It will interest you to see how your *Orithya*  
appears already in German nursery Catalogues.  
In the same Catalogue I find *Agave thurberi* &  
*deserti* by name!

Had a letter from Coate, she wants a signal  
station on Parry's Peak.

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Albion May 20 '76

My dear Parry

I have not heard from you for many weeks - no time or opportunity even to mail a pencil written P.C. ? Or did the Cacti and Agaves of the desert catch you - pin you up?

The above questions - notes you can add to the many already sent you. I have been much unwell, and have only now been able to write to Lemmon. Is he with you? I told you of the difference of the bark structure of his two Abies. I want you to follow this up in your explorations, see whether a constant character lies in this bark structure.

If you see an oak cut, examine the annual rings, and see whether the first (inner ones) are the largest or the outer ones.

I believe I will study these



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thing is Philadelphia and leave the  
wild woods to younger men!  
But how much more satisfactory  
and "instruction" are the wild woods!

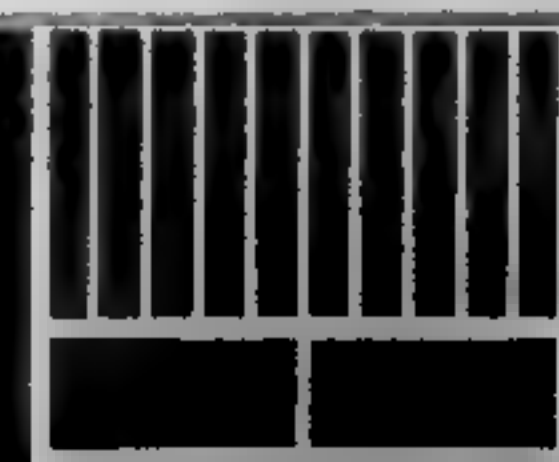
I have answered Lemmon's  
letter, but if he is with you,  
it may be long before he gets it.

I close and will write  
again, when I hear from you

Yours ever

J. Engelmann

Mr A Carr was in Los Angeles  
but is I believe impatient,  
can not amuse his self with  
Oaks and Pines and must go  
to railroading again; so he  
is coming home



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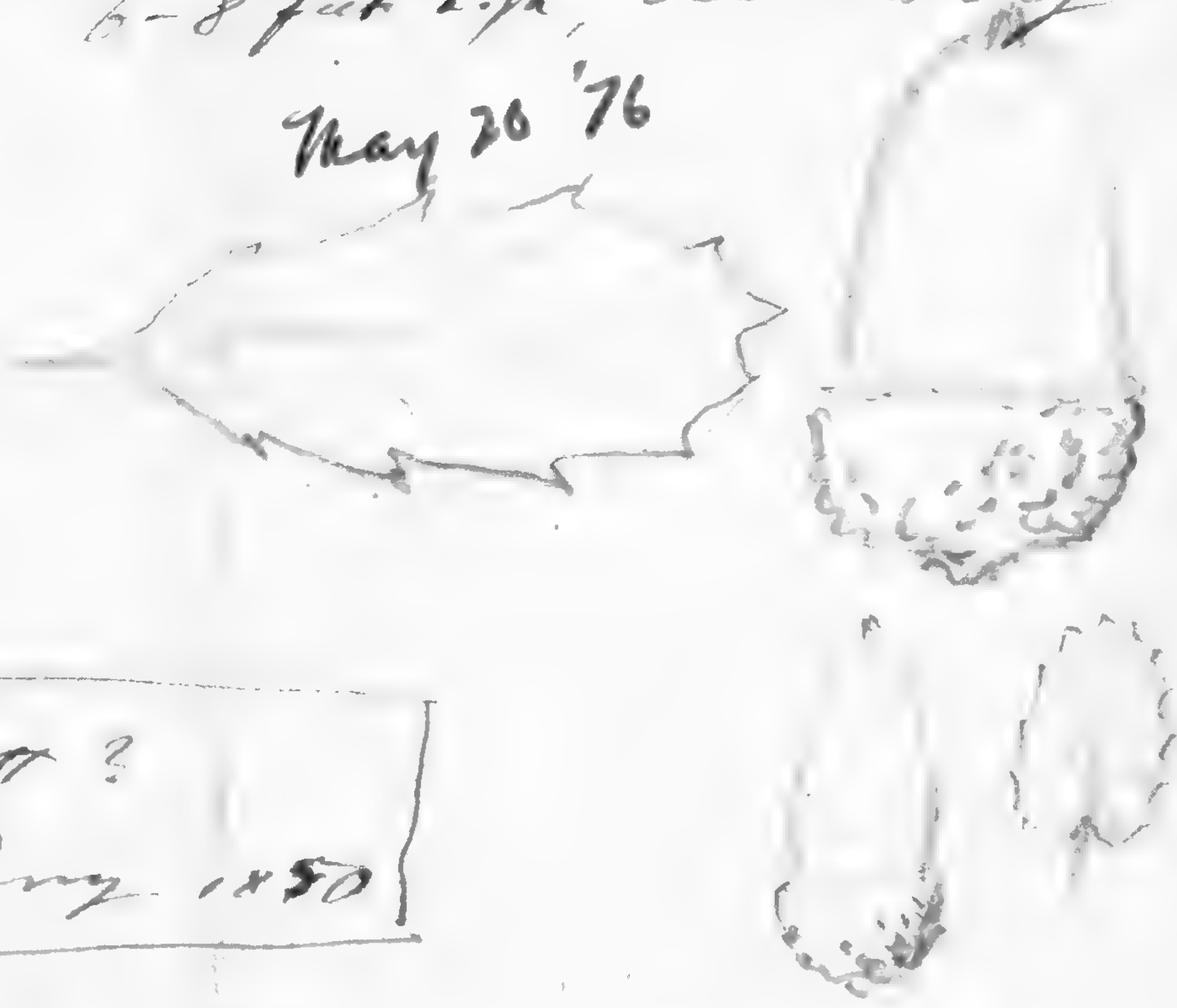


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*Quercus acutidens* Torr Bot Bord & Fig.

Specimen in Hb Torrey: "6-8 feet high, San Luis Rey  
& Pary 1850." May 20 '76

evidently evergreen



*Quercus dumosa* Nutt?  
San Diego & Pary 1850  
Herb Torrey

Both are identical, a larger and a smaller form, with very knobby cup — evidently of the so called *Q. Eucrysi* order — but we want to see more of them and their flowers.

~~*Q. dumosa* is entirely mythical~~

So, of course, you will look out for them, and complete the work begun 26 years ago!

I find both in Hb. Torrey, which together with those of Hb. Gray are now in my hands.

I find a number of plain characters in oaks, heretofore entirely overlooked. DeCandolle has pointed out

the superior and inferior orules,  
which are good - but not entirely  
reliable in *Q. chrysolepis*, where they  
are often lateral.

The sessile <sup>or</sup> long striped stigma  
is another nice character.

Another is the knobby scales of the  
cup, which I find only in white  
oaks, while the Black oaks, to which  
the annual fruited *Q. agrifolia*  
belongs have thin scales, no knobs,  
according to this character the above  
*Q. acutidens*, as well as *chrysolepis*  
are white oaks, but, like the  
live oak, ever green.

Our Mechanics distinguish the  
wood of black and white oaks,  
why should not veg. anatomist, do?

Look at the rings of oaks and  
trees in general, when you have  
an opportunity

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May 26<sup>th</sup> '76

I open the letter again to add a few words. though I have written several letters <sup>since</sup> I believe I have not advised yours of March 12 (see<sup>d</sup> 24<sup>th</sup>)

Baron Ost-Sacken called here and I told him of your stay in S. Bernardino, upon which information I suppose he hunted you up and was fortunate enough to discover such an excellent guide as you are.

Do you find any of your *Juniper procumbens* etc in S. east California. - Watson described a little in Callag in the Guadalupe fl that *Juniper* of California var. *osteosperma*. It is plain *J. Calif.* I have no var. *osteosperma*. Now that strange Pine is a two leaved *J. insignis*, not 3-leaved, as W. says.

I am glad Palmer will get



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or try to get *Agave Newberryi*  
or find out more about it.  
And he might do a great deal  
also in the Cactus line. These  
operations are so imperfectly  
known and flowing and fruit  
often confused, I believe <sup>May 20 '76</sup>

Semmon must have been shabbily  
treated. Why did he send it all?  
probably to get at least a small  
amount back -  $\frac{1}{6}$  or  $\frac{1}{4}$ !

G. E.

After careful examination, I find  
that that purple cone of Kottlands,  
of which I have spoken before, is  
*Balsiparua* (if which be obtained  
young fruit but no mature cones, on  
Mt Whitney) but really *ponderosa*  
or closely allied, leaves peculiarly  
pale green - "Head of Peru Ch"  
what that is I do not know - near  
Kern River, I suppose - It is worth  
looking after.

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G. E. again  
and again



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St Louis June 7<sup>th</sup> 1876

My dear Parry

I suppose I have  
to address you still at San Bern.  
But what are you doing and  
what are your plans?

I got today a good lot of things  
and your P.C. of May 28:

No 3 is a form of *Carpocidus* -  
4 *Op. bystrina* I think. I planted it.

I also got my Cact. of the Californ  
Flora - a splendid cooking work <sup>(the Fl. Calif)</sup> & Cact.  
are about 250. I shall send you  
a copy together with my notes. I  
have finished them and they will be out  
in a few days. - But I am only half pleased  
as the thing is, notwithstanding all my labor  
and exertions, not so thorough as I  
could have wished. Well it will at  
least, I hope, stir up people  
and they will criticize and correct  
errors! I shall send you several



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Copies, as soon as out. I have in it  
taken one of your or Palmer's spring leaved  
oaks for Nuttall's *diversa*, to which also Torrey  
accidentally belongs. But am I right?

My friend and cousin O. Fittmann of the  
Coast survey stationed at Santa Barbara  
(Nuttall's headquarters 46 years ago) has shown  
the greatest good will and has sent me  
any single leaved chaparral shrub from  
Nuttall's heights. The first thing was *Cercocarpus*  
*ilicifolia*! of which I was glad to get  
the fruit, which seems unknown, a dry  
drupe, no cherry! - Today I got from  
him *Q. agrifolia*, the low shrubby small  
leaved form - could that have been  
Nuttall's *diversa* ?? I believe no specimen  
does exist of his coll. - But then Nutt.  
has *Q. agrifolia* well enough - says  
it is the only tree-oak in Calif!!

But now to your & Palmer's things.  
I had written him to Arizona, but  
question whether he got my letter.  
Palmer No 5 is the nice *Opuntia tessellata*  
of which living (rooted) plant would have

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been very acceptable. <sup>June 27<sup>th</sup></sup> The two oaks are  
the same with one, O. sent years ago  
in abundance and, I think, are the  
spring leaves from the Cloud and etc.  
you will see all about it and the Canton of  
the Arkansas in my oaks. - The nuts are  
very good and acceptable

Your *bracteata* fruit, good! It  
ought to make it - business and get  
plenty when ripe. I am curious to  
know how it is when ripe; also how  
it is attached to the stem - erect or  
pendulous? From the specimens  
I should judge it to be erect & for the  
peduncle is short and thick, while  
in the persons with pendulous fruit  
the peduncle is long and slender. - I have  
not opened the fruit - intend to let it  
mature, if possible. -

You will probably not get into the  
lower country to cover the The Park  
Mountains etc. - Well, we have to  
wait and see

Common ought to have got this \$20  
before this. - This *alba*, for in Penn.  
plus high up I have got, with nuts  
- or did you send it? It is *corvora*,  
as I take it. Do you make a difference?

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



You will be more sparing or liberally  
that I ought at least pay  
postage, and not saddle you with it  
Here then a small contribution.

I correspond with Peck in Eugene  
as friends want to go there: Ten dollars  
a week!! Biz!

We are in the midst of printing  
and clearing generally, so that I  
am astonished myself that I could  
finish Oaks! - But "dehessingly"  
healthy - therefore leisure enough.

I find that DeCandolle has not  
the same stability in evergreen oaks  
not making new shoots. They are  
conservative and I speak of it in  
my paper.

Yucca brev. Fruit pendulous or erect?  
pulp or dry when ripe?

I have this spring been overhauling our  
Herbaria & some nice things to publish.  
Lemon still with you? Give your  
scientific family, your staff my  
best regards this includes or ought to  
include Mrs Parry  
write soon & oft  
yours truly  
G Engelmann



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BOTANICAL  
GARDEN

Albany 24 July '76

Dear Parry

It seems preposterous that I should send you plants to your mountains, but I can not forget the pleasure to send you a fine large flower, which after all seems nothing but a large flowered form of your *Porterella*, now *Laurentia capnosula* it comes from Oregon hence a gallant Captain (all Captains are gallant) who is principally after eggs & birds, sends me nice botanical specimens. Don't it seem different from the Yellowstone plant, or only larger?

I have at last a letter from Number who is charmed with the Little Grass, which is an enigma to him; he requests my analyses to — It is undoubtedly an *andropogonaceous* but very odd grass, and I think

I have a copy of Oct 1875 - C. in the form of a letter

de Muller  
\$20.00



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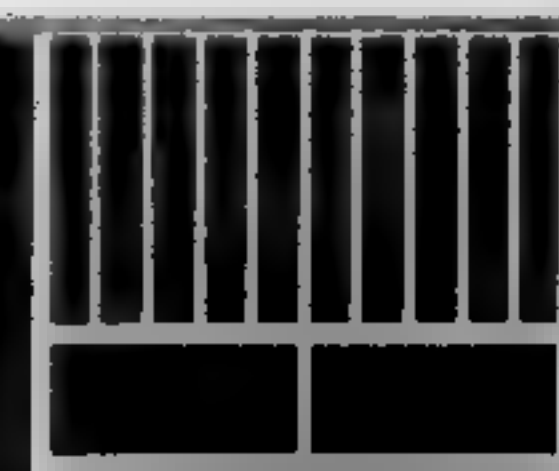
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BOTANICAL  
GARDEN

I must leave it your name  
in honor of Lemmon.

I have got the other by your  
of *Chrysolepis* - but nothing  
startling in it. You must have  
~~seen~~ my oak paper and  
it all about *Chrysolepis* - Speaking  
with last year and this year find  
must be looked for - Brewer  
has 1 or 2 such among  
a hundred - but then, he  
did not look <sup>hunt</sup> for them, but  
accidentally got them.

It is possible that we  
(wife & self) may meet Gray  
and wife and others in the  
West of Carolina about  
Sept 1<sup>st</sup>; we would after  
wards go to Philadelphia where  
George now enjoys the  
temperature somewhere above  
zero, and nearer Fort Yuma

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24 July '76

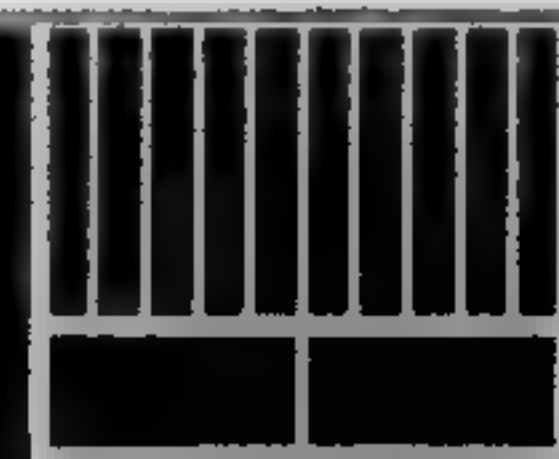
than any where else on the globe. By the way they have it almost as hot in London.

The coolest region thus far (aside of the Mountains) is the Hamiruffi Valley, the thermometer has not been above 94 or 5.

I have not much believed to say - after the effort at Agave & Oaks there is a complete let down! After a while I will attack Abies.

At Mr. Ward who was with Powell last year, sent me through these Abies etc among them the two Colored Abies <sup>to name</sup> and I was then forced to find a name for our "grandis" and wrote him that I took it for new sp. and provisionally named it *A. subalpina*. He then requests a short character. I am obliging enough to write

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him a few lines. I'll consider  
 this an overlooked & misunderstood  
 species of the Rocky & Oregon Mts  
 etc etc with some characters - for  
 his report

And he has the coolness or  
 childishness to send this to the  
 Am. Nat. "as he is not yet  
 publishing his report". - I answered  
 very indignantly - but then - what  
 is the harm? He is a youth who employs  
 roundabout means to get into  
 print! Annoying!

It is a long time that I got  
 your last - but suppose you are  
 very active and successful.

Follow up those two or three oak  
 shrubs with spiny leaves - one  
 is probably the form of *cond. laticarpa* (perhaps)  
 which you got in Utah - the other is  
*Dumosa (brachyfolia)*, and these ought  
 to be *Emoryi* also - while bush forms of  
*Wrightii*, *Chrysolepis* & *agrifolia* also have such  
 spiny leaves. Where is *Palmeri*?  
 Has *Palmeri* got any other? etc.  
 Yours ever G. Engelm.

I have a copy of this - I will send you a copy of the same

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There is a little something about *Lamarchia* that often  
occurs to those who see it also. It is a different name, & I think  
I have never seen it in any of the herbaria - except in the elegant  
independent from another - I am sure the 3<sup>d</sup> elegant

St Louis Aug 17 1876

Dear Parry

You used the best means  
for making me answer "stulte pede"  
*Lamarchia*! What a well! Yes, it is  
so! And here comes a Spanish specimen  
from my herbarium for you and Lemaire  
to compare. Why that should be  
listed among *Festucaceae* I can  
not understand - probably because I do  
not know enough. I have informed  
Nesbitt at once, before he continues  
and spreads the blunder - but there  
is little danger, as the *Cottoneus*  
gives him plenty to do.

Well, if we can not do better, we  
will mask our retreat by scolding  
the botanists, who have placed *Lamarchia*  
where it can not be found!!!  
What follows!

Mrs O.S. & Yours ever G Engelman

Why *Lamarchia* got  
listed in *Festucaceae*?  
Who is studying it?

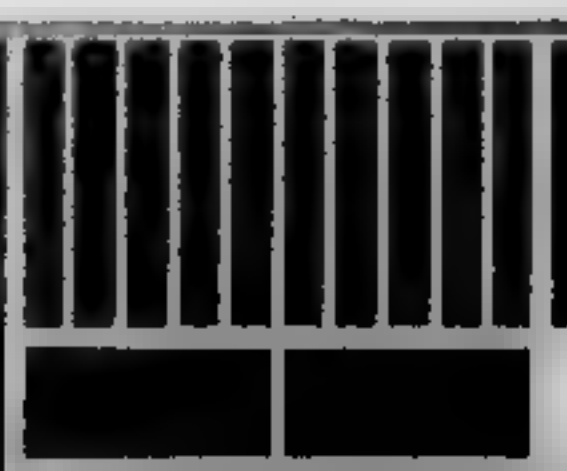


But your Bellis story is a scandal  
and we ought not ridicule poor Kellogg  
when we are guilty of just such a blunder.

I had sent my publication to  
Polander and also for Kellogg.  
How is it that you do not mention  
C.D. at all? Is he not in Fresno?  
That would account for our not  
hearing from him — or for not  
getting his copy.

I have some serious misgivings  
that his *G. Morchus* (a stupid name)  
is *G. Wilizem*, and <sup>an</sup> older name.  
I must consult Gray, whether  
the well described, named and figured  
*G. Wilizem* ought to give way to  
Kellogg's blundering.

Together with yours came  
a letter from Admissier at Geneva  
acknowledging very flatteringly  
my generous paper. I can  
feel for him when he says



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Aug 17, '76

in speaking of his great  
Horn orientalis, that he has not  
yet stacked the oaks, but the necessity  
of soon being obliged to do it - makes  
him shudder in advance, with the  
multitude of "species," and the  
incompleteness of specimens etc -  
Sout Comm chez nous!

My wife has had skills  
and though well enough now, is  
retarded in her preparations  
and we shall not be able to  
meet you - N.C. as soon  
as we expected - Crosby and  
Parsyent will also be there  
N.C., you are not of the party!  
But I would like better to be  
with you! - Flattering, is it not?

Well - I shall probably write  
you to Empire from N.C.,  
Miss meeting ladies!

I had a letter from Greene  
a day or two ago. Did not know



that he was so well situated  
botanically. He disclosed him at once  
the mystery of Abies, and informed  
him that he was on the dividing line  
of *A. grandis*, *concolor*, *subalpina* (Clear  
Creek *grandis*) with *nobilis* thrown in - and  
that he must find out all about them.

By the way, glancing the other day at  
your *Abies* book account I found the  
remarkable phrase "the trees include the elegant  
pyramidal forms of *Abies grandis*, here remarkable  
for the unusual length and breadth of its leaves"

What Lamarckian blindness struck me, that  
I did not in those words at once recognize  
or suspect *concolor*?! But you never  
collected the first fragment - you know  
the tree too well! - That is what makes  
such men like Palmer so useful -  
they know nothing (I hope you will keep that  
for yourself!) and thus gather every thing  
(Gregg was such) - unbounded zeal & energy  
with slight knowledge (or completest knowledge)

I wrote to Palmer a few days ago to Sacramento  
Remembrance to Mrs. P. and  
compare to the gracious Mrs. P. I hope  
Mrs. P. will be pleased with Mrs. P. and that all

the Palmer got *Abies concolor*?  
was a study of it?



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Bryson

Atlanta Ga Sept 4 '46

Dear Parry

You see I am here "mid  
Sherman", no, with Canby  
bound for Stone Mountain!

We have had a hasty round  
about hunt, no rest, no  
ease, no repose!

At first we hunted up Gray  
and party (Mrs G, Canby & Reef) —  
Hooker had excused himself  
because just entering second  
marriage!) here and there  
until we overtook them in Burnsville  
(Asheville) but instead of going  
up the big Mountains it was  
resolved to take them with Abies  
Fraseri on the return trip and  
go to "Caesar's Head" an outlier  
reaching into the Palmetto State,  
a few pleasant, but also very  
busy days before my — of



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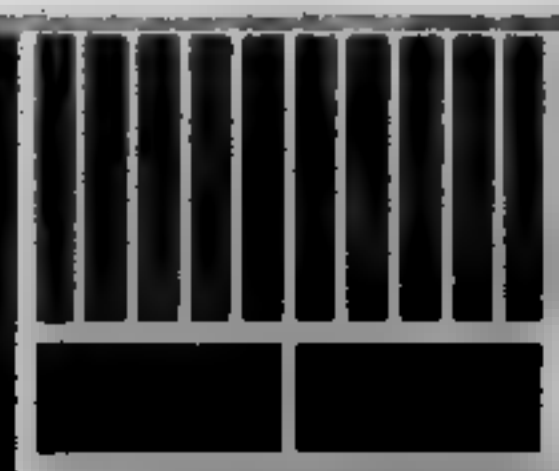
I will only mention *Pinus pungens*.  
splendid vegetation — what a contrast  
to the R. Mts! a group of  
Kalmia 20-25' high & 10-15  
in. diameter etc etc. —

While the party were enjoying themselves  
or working yesterday, Canby & myself  
came here to Dr. Stone Mountain,  
will all then go to the NW slope  
of the Mts and ascend the Roan  
for Ab. Fr. or some such  
hyperglyptis.

I write also to let you know  
not to be uneasy about me, that  
I should be tempted to visit  
Dr. Mellichamp as I am in the  
Carolinas — Yellow Jack is too  
forbidding there.

Now I wish you would, better  
than we did 2 years ago, study  
the question of the closed cones  
of *Pin. contorta*.

Please get a few good plump



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closed

Sept 4 '76

Large cones, which most probably  
would contain good seed -

2, 3 or 4 years old - and let  
me then next spring pick the  
seeds and sow them; also to  
make experiments, how they  
might eventually open.

Remember us to Mr. Perry  
and to all the friends in Europe  
I suppose several of my  
St. Louis friends have been  
at Paris

Yours ever

Gray



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HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Oct 15

1876

Dear Parry

you do not deserve a letter from me, but then, I am, you know, a good and forgiving sort of man. We have been all over the eastern wood you know - first with Gray & wife, Conly & Redfield in the N Carolina Mts and on Stone Mountain, Delighted with a number of my pets *Abies Fraseri*, *Isotria medeolae*, *Quercus Georgiana* etc etc and a good many other things besides - It was very hot then, sometimes un-supportable (we did support it, though, in a measure) today we are in the midst of a regular snow storm!

Then in Washington - I was looking for your Brussels Carpet, but found only coarse matting in the Agriculture and Dr Vasey, He was very obliging indeed - I found a good deal there in the coniferous line, Newberry's types etc etc - and many new things from Calif



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and elsewhere.

Then to Philadelphia where in the Centennial, with Meckam, Hoopes, at Carby's and in New Jersey time flew fast. ~~From~~ From Philadelphia we came straight here, sailing around New York, under the wires of the future bridge. And now we feel as if we had looped around enough and, winter setting in, should return straight to St Louis.

Have you got a letter from me in Purpura?

Palmer was here for a few days and told us of you and also of Lemmon's failing health. Too bad.

By the way — and now you sharpen your recollections, so that you may be able to decide — :

In the Government Coll. at Centennial are a great many sections of wood which I closely studied. Among them is Libocedrus from Lemmon and from Palmer. The former has fibrous bark, much like that of Sequoia, only a little coarser; Palmer's has rough and coarse <sup>juniper</sup> Pine bark, with out any fibrous texture. In the California State Coll. (rather the Pacif. A. A. Coll.) is also Libocedrus, with fibrous bark. Gray



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Oct 15 '76

recalls distinctly the fibrous bark of Libocedrus. But Palmer is positive about his pine bark Libocedrus from the Mountain back of San Diego.

Now we constitute you judge between P. on one side, as Lemmon and Gray & Par. on the other. How is the bark of your Libocedrus ???

Hooks enough for you!

But I have something worse for you; a case of breach of promise. In your "dissimulobolany" in Javoy. And you mention Abies occidentalis.

Did it tell you, that that Abies note was for you alone! The misfortune is, that Mr Ward of Washington (of Powell's Exp.) sent me the same plant, and I gave him another name, privately, for it: A. subulpa; and which has been to do G. L. pull it in Naturalist American.

Now I shall, to spite you and Ward, restore the old name of Lasioxylon for it, if I do not conclude to call it balsamea var occidentalis.

But I won't close by scolding! I leave for Palmer, that you had no Conif. seeds in Colorado. Probably: consequence of the frost -



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March last; we in St. Louis lost Peasby  
Olms and maple seeds through them;  
after an early and warm Feb & early  
March spring. — An interesting question  
will now be, whether next year will  
bring abundance of cones, and thus go  
on every other year, till again a late  
frost in some spring, makes them skip  
two years in place of one. —

Write to me at St. Louis 3003  
you know.

Yours ever

J. Coulter

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Albion Nov 13 76

Dear Fanny

coming home from a  
professional visit I find your letter of  
11<sup>th</sup> and having 10 minutes to spare, write  
you at once, to prove to you that I  
am a better Christian than you are.  
Did you not get a postal from me from Cambridge?  
I was writing for an answer that all  
the while, am home over two weeks - in  
the midst of professional business - working  
up arrears in Meteorology and what not  
had no time for correspondence and still  
less for botanical work - my 20 Carol  
etc Coll, Washington (Vesey's) box, and  
Cambridge notes are still as they came  
here, and have come Rotterdam and want  
Whelan's 4 year Collections in my families  
worked up at once !! Poor me!

I would say come and spend a week  
here - but I am really too much  
distracted to be of use or interest  
to anyone

Your *Cephaelis* I have had from Palmer,  
it is *C. melanadenia* Torr - Bot Board. - The genus  
is our old cosmopolitan find of *C. Confertifolia*,  
and the *Abolepia*, you speak of, has  
not turned up.

I wanted you to find transition  
between *chrysolepis* & *varicifolia* and not  
to tell me that they are distinct - I can  
well distinguish forms in herbaria, but



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in the woods only, then we see thousands  
we can judge of the value of the character  
Nov 13 '76  
then a new light has dawned on me in  
Q. Prinus. The eastern (especially Alleghensis)  
Prinus, which I take to be the true Linnæus  
Prinus and P. monticola Michx is  
most probably specifically distinct from  
our western Prinus castanea (or acuminata)  
but both may occur with narrow, acuminate  
or wide ovate leaves - heretofore we  
(I, at least) distinguished the broad leaved  
as monticola and the narrow as acuminata  
because we did not know better!  
Prinus or P. monticola does not occur  
west, but acuminata is also sparingly  
east. - Do you have it near Denver?  
As to Pinos pungens or pumilus I am  
in doubt.

So you see the Oaks hold me  
- oaks on the brain! - but it is too  
mean of you to speak of them so  
contemptibly - and why? because  
they tore your pantaloons - What!

We had a very nice time  
in Coal - only too short, not much  
more than a week - and a day on  
the curious Stone Mountain.

In haste (as always)  
yours truly

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G. Engelmann



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GEO. ENGELMANN, M. D.  
3008 Locust Street.

guns from Illinois brought to your  
Island - but because of poor  
Malvastrum angustatum

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GEORGE ENGELMANN PAPERS

St. Louis, Mo., Jan 12 1877

Dear Perry

I wrote you about 4 weeks  
ago and gave you Erythraea names.  
Have not<sup>d</sup>, but intend to, return. The  
covers filled with oaks, but my  
working room is too cold, and my  
own cold too bad to think of it now.

Meanwhile I can not do better than  
send you Thurber's numerous letter just  
rec<sup>d</sup> - too good to be put away among  
my old papers. Return it!

He came 3 days to NY to see me  
while I did not come to NY at all.  
Mechan had written to me in the  
old same style!

In my answer to Thurber I must  
try to put a damper on his exultation  
by reminding him of our wide  
Limonella, which he hugely approved  
of!

I am glad to see him in such  
excellent spirits. Is it a little  
'stimulated'?

I send you that Curran's notice  
also one about the nature of  
Pine cones. <sup>young ones G. Engelmann</sup>  
<sub>what, coming season?</sub>



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Vertical text on the left margin: "Perry's all in one side" and "is good!"



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3008 Locust Street.

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St. Louis, Mo., Febr. 14 1877

Dear Perry

Still sorting specimens?

I hope you will have a fine set  
(more so) for me (for which you will  
charge) I have not found leisure  
to sort. was deep in Hooker's and  
Oakes when a new paper of MacNeil  
of Dublin Dublin comes which  
anticipates me!! but I can go  
better!

He recognizes *Abies laricina* in  
that old specimen of Douglas' but I  
in Syll's Oregon plants - but don't  
know it from Rocky Mts, he resubstitutes  
the species and thus knocks my *occidentalis*  
and *subalpina* on the head!!

Frazer's he knows only from northern species  
and I think it is scarcely different from balsam  
- of course! It only grows in N Carolina

middle about *amabilis*, Grad's *concolor*

Well I have thus got among the resin  
trees again for a while, and this also to  
demon. What has become of him?

He has not answered my last letter  
was he displeased with the amount (of 20)?



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I send him? Or perhaps at my <sup>criticism</sup>  
(asked for by him) about his exstatio Sequoia  
paper, which I called "sensational" a little  
too much so for my taste. — Feb 14 '77

A year ago he gave me measurements  
of trees of *grandis* (concolor) and *amblyotis*  
(*magnifica*) and added a column: Cones bu.  
which I read Cones length, but this makes the  
Cones of the former 2-8 (meaning: inches, I suppose)  
and of the latter (*magnifica* which has the largest  
cones):  $\frac{1}{2}$  - 6 both average 3-4 inches  
and cones only  $\frac{1}{2}$  would do — What can you  
tell me? What do you know about these  
cones?

How is Inman getting along?  
& weather mild, may benefit him?

yours truly.

J. Engelmann

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112



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GEO. ENGELMANN, M. D.  
3008 Locust Street.

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St. Louis, Mo., March 7 1877

My dear Perry,

Your letter and package  
came a week ago. Many thanks. I  
find the specimens - many very good  
things - a number of them want and not  
over well preserved. Some ought not  
to learn from you - to make small specimens.  
I will send in a day or two 10 dollars for

Your papers in xiphoides var. You Euphorbia  
without fruit, look a little like Crachycera, but  
am not quite sure. I forget what the others were

We ought to have a woman like Mrs Putnam  
here - we are doing next to nothing.

I believe I told you that Mr. Nib in  
Dublin has worked up the *Alnus* and *Salix*  
my shoe coach! He finds <sup>some</sup> that the *Salix*  
is Hooker's *Lasiolepis*, but did not  
trace it to Colorado. In other things he  
is in a muddle, I have *Buxus* which  
he has from Colorado. I think it is rightly  
det. to *Buxus*! Of course! I sent him  
~~some~~ *Buxus* asking for his book. But  
it seems time that I should publish.

Gray is now at Guntam and pushes  
me for *Persea*, looking over *gustata*  
seeds for him. I find a paper, marked



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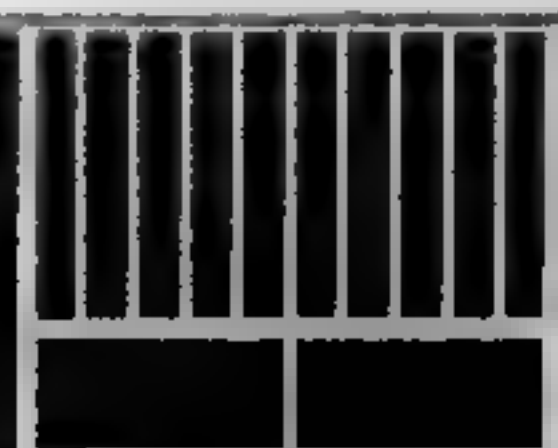
Mar 7, '77

"*G. Parryi*" with broad winged seeds, and I think I got it on Britton's pass, unfortunately the Libel says nothing about it nor does memory serve well - Now my specimens of good old clear Parryi have none of them seed. Have you any? - The tall many flowered Parryi with small membranous calyx and scarcely any lobes, which I found near the sawmill, much below its proper locality, and if not, I think, I gave you a specimen, is full of seed - and the seed lanceolate, narrow, and scarcely winged. And such is the seed of *Calycosa* of which I have a fragment from Brewer. Now get me a seed specimen of true Parryi, if even only half matured. I must settle that point. I do not think I am mistaken. And if not, then my many flowered Parryi of Clear Creek Valley is different from the true Mountain Parryi and is very near, if not identical with *Calycosa* notwithstanding the very deep & Calyx, and Parryi is toto coelo diversa! - Please do get me seed even if not for myself, at least for your own good name and that of your genus! Please, do!

The money is a few days.

Yours truly

write as soon as possible  
about that seed!



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St. Louis, Mo., March 1877

Dear Perry

here is the Money  
order for \$10. - for Lemmon!  
which please forward.

Your Euphorbia buckeyana? is a  
poor thing - it probably grows in tufts  
like that E. montana from Empire,  
which has such a stout rootstock - but  
how can one know from such a way?  
And then, no fruit, seed! Bad!

My son says, I have always some  
thing to complain and grumble about  
maybe!

A letter from Palmer and a large package  
of fine dumplings Calif. but nothing new.  
Did I tell you that he found a new  
species, larger than Utahensis, 20 miles  
from St George - 2 specimens in  
Cambridge. He will try and get the  
flower now, and more plants.

Your Seder and Chas. Jan  
not now name

Yours truly  
G. Engelmann

MISSOURI BOTANICAL GARDEN  
GEORGE ENGELMANN PAPERS



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I complained to Leamon about the quality of some of his sp. He said  
you had just picked the refuse (not with these words!). L. is too  
wordy and a little halfhearted - is he not?

GEO. ENGELMANN, M. D.  
3008 Locust Street.

St. Louis, Mo., May 17 1877

Dear Parry

The last I heard from you  
I believe was that you were "still  
in the middle of sorting" and that was 3  
months ago. Have I answered? I believe  
I have! I am myself in muddle, deep -  
Grog wants <sup>for his Synopsis of N.A.</sup> Cuscutas, which are not written,  
Oak paper must be revised corrected and  
completed - printer waiting - Roether waiting  
for drawings - Roether for Mrs Wheeler's Botany  
I believe I shall have to claim the benefit  
of the bankrupt act. The difficulty and  
misfortune is that I entered all these obligations  
voluntarily - and now? Will I hope  
the pressure will become so violent, that  
I shall burst and spout out all those  
beautiful things and more too, for when  
once unchained, Abies and Junipers  
and Arceuthobium may run off like  
cholera dejections!

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Meanwhile the season is advancing and  
oak buds have been swelling from T. to Caroline  
to Cambridge and to Fountaindale and west  
to New Mexico where Greene sends them.  
Canby, Vasey, Meehan are also doing their best



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so that I may soon establish a tannery. And I  
must not forget Palmer who sends Agave & Cacti  
from south of St George, The mail carrier thinks  
I am an awful weed-sharp. You are very  
considerate in not troubling me any with  
letters or specimens! But what in the  
world are you at? Why don't I hear  
a word from you?  
May 17 '77

By the way Siler also sends a Twig of Douglas  
with *Arceuthobium*. You found the same. It  
is always a very small thing, scarcely larger than  
pusillum of the Adirondacs, and ought to be  
a distinct species; if I could only catch the  
character - have no male flowers. You sent  
it two years ago, but without date: when?

Drop me a line, to say that you are  
alive and what about. - I begin to  
be awfully afraid of some friend or other  
dropping off without due notice, or maybe  
myself, such would be a loss indeed. My  
oldest and best friend (of 50 years standing, Alex  
Braun, died in Berlin a month ago and I got  
the news just when I was preparing a large  
package of Rocky Mt & N Carolina plants for  
him. Why could I not have sent them 6  
months earlier? Why? Confounded  
procrastination; it will catch me some  
day, before I can finish half the work  
laid out! Well, this may be too  
lugubrious, though true.

Don't procrastinate the answer. Yours ever  
G Engelman

What you come here a I see my, you are my family?



GEO. ENGELMANN, M. D.  
3008 Locust Street.

MISSOURI  
GEORGE ENGELMANN PAPERS

St. Louis, Mo., Sept 10 1877

Palmer writes that Darwin is improving - I am not keen from him

My dear Doctor  
months ago I had a letter from you about your nice time east, in Cambridgeport - but you appeared so unceremonious in your movements, that you did not even tell me where to answer you! Then you could not - perhaps you would not get a letter from me! - But here comes Palmer and informs on you - you and he, both at Devonport - and here the infliction comes. O, how provoked I have been at you in my protruded oak studies - those tea-trousers - some have occupied me for weeks - and you living right among them in Utah & then in Calif. could have answered so many questions but you did not do it - There are here and there meagre specimens without notes - mostly such that you sent by mail - good and fresh - but what is an oak if you have not the history - and you were long enough there to study them a little for me. But here I am not a bit wiser. I guess you did not answer the 1000? which must have adorned



(X) I believe a small fruited fragment  
in the fall of 1870 from San Bernardino belongs  
no spring specimens!

Here is the purpurea - old Emoryi (not the true  
one) which Palmer got 1870 in numberless specimens  
in Arizona, and which you found again in Mt.  
H. and also in fl. in the Calif. Desert. Then there is  
the true albanyensis which you got 1851 at Albany  
N.Y. - Schott also, about there, and which must  
make a "middle-sized tree" at Los Angeles & San Diego  
with glabrous, scantly reticulate leaves, "live oak".

Of this I know little, and learned nothing from  
you. (X) And then there is densa the common  
Calif. scrub oak, which Palmer got abundantly at  
San Diego - others at Santa Barbara, you at  
San Bernardino in April & June 76 - But why do  
I write? - You won't answer questions -  
will not put me right, where I am  
befogged - O, get out

I will only now ask whether you know  
these three Oaks - whether you distinguish  
them, and whether you can give me any in-  
formation such herbarium specimens do  
not give.

What large oaks have you seen  
except Chrysolepis - I have not heard  
of any from you.

Are here are Gray & Hooker who run over  
the country like mad - what good can  
come of it? Still I ought to have gone  
with them at least as far as La Bete.

And Palmer says you are going to Mexico  
Is that so?

I forget to ask what remuneration  
shall I give Palmer for the things sent, Agave  
& Casti during the season? Young, growing, as  
J.E. cow

