Rec Jan 24 Ans — 27

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

My dear E,

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

January 20 187 8

I find no letter from you dated Dec. 15th.

The box announced by your letter of 15th inst is not yet in.

Thanks for Jim's Calif. fruit. We have nothing like it here.

Oris must be Mitchell's J. andersa

I remember a letter of yours in which you announced that the Abies Menziesii of Oregon &c is another species than the Colorado one! Is that the one.

Sta Lucia Mts. should be reached from Sta Barbara. Nobody but Miss Plummer there. Got Lemmon — who

adres Miss P. until yr.
Monterey & P. insignis —
(also fasciculata & muricata)
Dr Anderson of St. Cruz
with permit facilities, can
reach any day he pleases.

My last Scroph. mss
is in printers hands, &
the Acanthaceae ready
for him.
Now I lose a week —
yr to Washington — to —
morrow — shall stop &
see Canby — on
returning.
Did Mrs. Engelmann
get anything Mrs. Gray
sent, about Xmas, —
and a letter.
I go to W. alone. —
Ever Yours Asa Gray

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Rec'd Feb 5th
Ans 7

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feb. 2.

187 8

Dear Mr Engelmann.

Yr came while I was away at Washington — all right, I presume. Mr. Watson took care of it.

Hayden has promised to send you a copy of the enlarged photograph of our Lakota camp — to go to the St. Louis ~~Acad~~ Academy, "as a historical picture". So I will sent, and the new a I have here!

I was nicely at W. — had a day with Cowley & a night with the Rothschilds — but took a bad cold in the journey homeward — or in a wet day at W. —

Many thanks for the numerous rectifications — most of which, at some

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expression — I can put
right!

In haste Ever
Yours

A. Gray

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Recd Jan 14
Ans — 16

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Jany 11 1878

Dear E.

You are doubtless right. But I should be I never saw the Juniperus Californica.

The bits I send are from Mt. Stanford

Same as Lemmon

Mulleyana

A Gray

Lemmon 300 years old
3 feet diameter

Jno. Ward

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3 " = 10 years

1/2 " =

1 " = 20 years

1 ft = 240 years

3 720

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Rec Feb 15

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GEORGE ENGELMANN PAPERS

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

Feb. 11. 1878

Thanks, dear E., for the Abies paper, congratulations on your healthy and hearty three-score — & ten — & hopes that "by reason of strength" you may reach your four-score without "the burden & sorrow" is good.

Mr. Murray is dead, I never knew him. You write Middle of P. B., the only slip I perceive.

Well, I see you have — what I saw in Utah Mts — a fallacious Abies subalpina! And as to your last lines, did I not write you, that Hooker, & I gave, Cones with the publish bracts, which this, & Siberiana are in Kew Co!

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and Muir afterwards ac-
pirated it.

So your supplicat-
distinction fails — and
there is nothing but the
facts to hang to — and a
manner margin to write.
State we have our public
of Shasta with the very
short facts of magnificence

I caught a cold coming
home from Martinez — —
because they could not
keep a <u>palace</u> car
warm. — have missed it —
— but kept busy all but one
day. — and I am <u>well</u>.

Yours

A. Gray

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Rec Febr 27th

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Feb. 24 1878

My Dear Engelmann

I can't lay hands on your last letter, I suppose Nature may have it.

But I should have acknowledged & thanked you for the parcel sent by Jackson. Only, it lay for days in Boston — and I really got it only 3 days ago.

Well, the specimens are all pinned and ready to be laid out for Asa — I am delighted with them — especially with the Carya's. How nice & complete!

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GEORGE ENGELMANN PAPERS

Was Dr. Standley sent you yet the orig. photo of Camp in La Vera Pass?

Let me know if he has not, & I will stir him up.

Mrs. Gray sends her best love to Mrs. Engelmann, and is quietly slipped from her letter, — a long & nice one — a treat to get.

Writing goes slowly just now. I am revising Lobitze MSS. — just one Hedeoma. Don't want printer to begin on Lobitze till I have reached the end, or nearly. It is the penultimate order — an Plantaginea left.

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Canby is to be here on Wednesday 27th — for a few days —

Wright is here — for a months' ~~work~~ work for me, in Herbarium —

Yours ever

Asa Gray

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Rec April 2d 1879
Ans 8

BOTANIC GARDEN, CAMBRIDGE, MASS.

March 30

My Dear Engelmann

It is long since we have heard from you, and at the last news George was suffering from erysipelas.

We are anxious to know how he, and how you, are getting on. We do from the bottom of our hearts hope that this was only a transient trouble, & that he is to be whole and firm again soon. And you too, my dear old friend, how are you?

We need hear.

Ever yours
A. Gray

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Rec'd April 28
Ans — 29

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

April 20 1878

My Dear E.,

This is 17 in.

I have no comfort in Pycnanthemum; which is very-very a bitter.

Fortunately I can send you P. muticum. I put a specimen in your pigeon-hole.

I will about 4th May (30th anniversary of our marriage) be ready to send you 1st part of Flora, which you will have to pay for — as I can't get a publisher to refund

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the about 24 wonderfully
I have paid out — or
have to pay myself —
and I must bleed
all the botanists —
There are other things
to send you. So
let me know if you
want any or our botl.
Cornifed — to use when
you (pm) will be
at home for H. Cely.
It is better to send
all at once,
Lovely, early spring here
also.

Engelmann

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Rec May 22

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

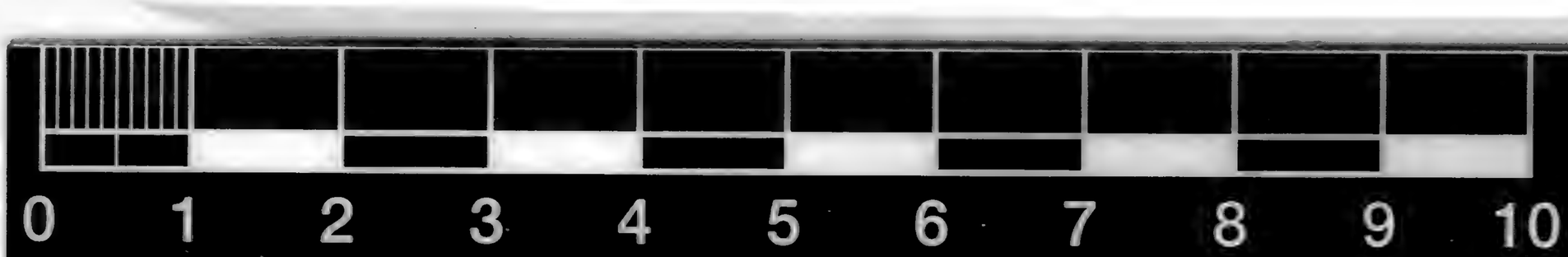
May 20 187 8

Dear C.

I am just back from the sad duty at Washington. Dear old Henry.

That enlarged photo=graph, is for you, to be left for your St. Louis Academy of Sciences, if it gets over a home — or for Hortus Botanicus Missouriensis, as you elect. Glad you solve it. Yours

I have long had Rupliana, but small & supposed to be only 4 petaled. Yes, Sisyrinchium albidum came well, & turned over to Sargent



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I am at your ed. of the Structural Botany, as a bit of ad interim work.

Yours very

A Gray

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Rec July 5
Ans

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

July 1 187 8

My Dear Sir

Yours of — here this morning. Commencement & its associate days — Dawson of Montreal & daughter, here with us — till this morn g — much time lost.

— I'll briefly touch your points.

"Abies bracteata" Torr & Am."
I took it from Pursh in Sb. — Pursh (Torr.) carelessly, as usual, no Nuttall Sylva 1849
I find in Bot. Mag. 1853, t. 4740.
"Abies bracteata" & then quoted "Pinus bracteata, Torr. & Am. Bot Mex. Vol. 394." That may be the 1st name it has as Abies
It is pretty well described as "Pinus Venusta," by Douglas.

"Pinus tuberculata, Gordon." Well, I took it for granted you had that all right — I had nothing to say.

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"Pinus Californiana." It is in that form in Lindleyana. Nor, Durham, — the date of that vol. is, as I have given you.* ~~the 1st~~

It does say "leaf cone" — nor "pinea — like seeds" — but cone 1/3 larger than P. monticola & like it, & Cembra — like seeds, if I remember — you have the extract.

Therefore nor Coulter — cone about it. Nor do I believe that any French vessel, stopping there could have got hold of Coulter's. But you may ask DeCaisne to look for the cone.

It is because of so much muddle since that I would like to see P. Californiana cone up. But really, it is not sufficiently published.

---

*The 1st & 2nd; the one publicly 1813 — no date in my leaf-proper copy — & not by Lindleyana.

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Well. — on the whole then you must make the blue-spruce P. Sitchensis — var. Parryi. If it species (???) then P. Parryi. That they have called the blue one in England P. Parryana — is all in favor of it. You can take the name Parryana if you choose.

Mr. Carr says St. Louis is big, too long & but jumping out sick!

Mr. wrote in Manual (Sagittaria by S. E.) about these bulbs!!

I'll dig them & see if mice has it.

Engelm

A. Gray

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Rec'd La Salle Sept 17

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Sept. 6 187 8

Dear E,

Very sorry I neglected you — had no idea you were going South to St. L., to meeting — have been holidaying — working, &c — and busy now end.

I will write as soon as you get home.

Tell me if I shall send you anything except all forms of Pinus ponderosa. Am out-of-sorts — tired — & worried to-night. Sorry for your rheumatics! Your meeting better than I thought possible!

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Missouri Botanical Garden
George Engelmann Papers

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GEORGE ENGELMANN PAPERS

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Poor Goodale's child died — dysentery, he & wife travelling in Lower Canada.

In an old vol. of the Meteorologi. Mag. Naturalist, a ~~[illegible]~~ pupil of mine anticipated you about stomata in Silphium laciniatum —

Some one since ~~[illegible]~~ denies. Lots of Compositae affect vertical leaves.

Don't be hard on your own.

A. Gray

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Rec Nov 16th
Ans — 26

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Nov. 13 1878

My Dear Engelmann

We are very sorry indeed to hear of your illness, and had no idea of it. I hope we may hear you are recuperating well.

You see, dear old friend, you should not go out on wet evenings, nor wet days either. Stay in doors, and bump to the patients, muse yourself, and work at Botany, and all will go well, and you will have more comfort of your life and more of it, by many a day. I am glad to hear it is only rheumatism & not pneumonia or such.

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to give you proper information about Juncus coccineus, Mang. I will get Mangenheim from the College Library, copy out all, & trace the figure — if you say so — after you have done the Pines for Watson.

I have given 2 days to Providence — perhaps wasted ones, in attending the contested probate of poor Olney's will; which gives to Cauby & me, in trust for use in Rhode Island, a large share of his property. Decision of the judge not yet rendered.

Instead of Mutabilis I am deep in a new — & long wanted edition of my Structural Bot — any, — shall hardly get the w. it by Saturday. Then the rest of the Committee — who are to do it have failed & put it on to me to write a Memorial of Prof Henry for the next Smithsonian Report. Then Hooker has as yet sent very little towards our Report for Hayden, and I shall have much of that to —

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Dr. — I cried almost with to be laid up with rheumatism! You will say; better — not.

Mrs. Harry & Mary — that daughters are still here, the two other daughters at a neighbors close by.

I will stir up Horton about the Bouchardia & Zephyr grass.

Shortia is rediscovered — after 100 years — & by an accidental picking up by an herb-gatherer's boy!

I have dissected flowers & completed the character. I send account of it all to Decaisne.

My wife sends her regards & sympathy — to you & Mrs Adams — with mine. Please take the

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best of care of yourself,
& be taken care of — &
don't go out after patients,
but stick to Botany, Be
good and you will be
happy!

Always yours

A Balfour

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Rec Nov 23
An — 26

Nova Scotia Botany
Professor Lindley

HERBARIUM OF HARVARD UNIVERSITY,

BOTANIC GARDEN, CAMBRIDGE, MASS.

Nov. 20

1878

My Dear E.

I am glad to hear — by your letter to Sargent — that you are getting better. I hope you may be quite well soon.

Now that you are shut up, you can help me a little about Conifer-ous structure

I apprehend, & want to adopt Steuzel's view of foramen flowers — which Richter gives in to.

But tell me how it proximologises Cupressus, Thuja, etc, Do you assume an inner verticillus scale (Euphorbia

2 - Phyllons - of a pecan=
day axis - wholly ad=
herent to face of the
bract - scale may in
Juglans?

I ought to know —
but can't just
make out

On the 18th —
had my 68th
birth-day, in good
health and fair preser=
vation.

Ever yours

Asa Gray

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GEORGE ENGELMANN PAPERS

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Rec Dec 24
Ans — 27

HERBARIUM OF HARVARD UNIVERSITY,
BOTANIC GARDEN, CAMBRIDGE, MASS.

Dec. 20 1878

My Dear Engelmann.

Me judice, you can take your choice, if you have to put Abies Pattonii into another genus. The ci- & the analogue is only a recommendation- a convenient thing, not a law. And, unless with strong reason the earliest form should be kept up.

So you will keep Tsuga as a genus. — as indeed you must if you keep Abies & Picea I suppose. But as Tsuga's chief character was its pollen; — now do you like a species of it having a regular Spruce & Pine pollen.

As to Abietinea & Cupressineae, I should say they they run together, are not so distinct as I thought.

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Taxinea is a subordinate order, if you please but Taxodineae spoil Cupressineae.

Here we are at the point of following Strasburger & Lichtenthaler (Have you his Blüthendiagramme?) in the opinion that the scale of Cypress is compound. ~~that~~

But even if it is not — and it is hard to make out your idea — from Juniperus — is not in the way.

We don't suppose the abolition of any scale outside of the Juniper scale that bears the ovules — or rather has the ovules in its axil. There are of the same order as the scales ~~below the~~ of the axis below. But they are not ovuliferous, the more ovules in their axils just as this has a different scale. In Juniper the ovules are all that develops of the Carpophylls. I think that was Braun's view, —

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On the whole I think it is the probable view.

— As to Cypress, compare a young female catkin of C. macrocarpa &c — with the cone. And I think you will say that you discern the fractal in the cone (see one enclosed, marking the basal part only of the peltate body.

If you had wished up your details of Juniperus virginiana as fully as you have of J. Californica. I would put them into my Structural Botany. Perhaps I must put it I should like to follow the stages of fructification of Juniper & Cupressus.

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I have had a deal of attorneys work to do — from to write for the Smithsonian a memorial of Henry — Just my luck of having all the work to do.

Thanks for Xmas greetings — And may write & I and Mary Christmas to you all, with hopes you may be on your legs again, Xmas to dance around the Christmas tree.

And may hang up the Crinkums,

Yours ever

Asa Gray

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