

Rec'd March 19th

Buffalo, March 15, 1862.

Dear Sir:

The Buffalo Society of Natural Sciences, of which I have the honor to be President, was organized a few months since, and has commenced its career with earnestness and vigor. I do not think Buffalo will let it die. I believe it will live & be of credit to the City & useful to Science. It needs however the sympathy of our scattered naturalists.

In response to a letter of inquiry, my friend Robert Buchanan, of Philadelphia, not only promises his cordial cooperation, but furnishes a list of the names of a few gentlemen of the West whom he regards as able and willing to aid us by correspondence and exchanges, and specifies yourself among them.



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I most sincerely hope that the agitation
of our country will soon cease, and
that we shall all be able to return
uninterruptedly to the blessed pursuits
of peace. I hope that the great
troubles which have pervaded St.
Louis and ravaged Missouri have
not diverted you from the enjoyments
of science.

If your leisure will permit we
hope you will favor us with some
of the plants of your vicinity, and I
would be particularly pleased to
see my old friend Dr. Lewis C. Beck's
Trillium. I remember his showing
me the Trillium he had gathered
in the vicinity of St. Louis before
he published the species. Indeed,
we would be glad to receive any
and all the plants you can send
us - because we have no first rate
botanist, and authentic, reliable
labels would be of much service to us.



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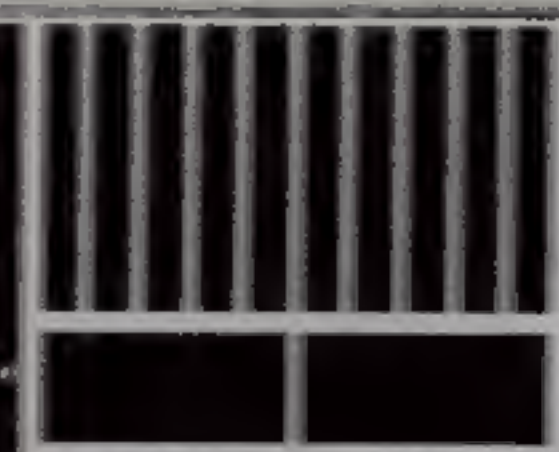
In the meantime you will do us a
favor. If you derive any specimens
in any branch of Nat. History, which
you know or suppose this vicinity
produces, or believe we can obtain,
kindly send us a list.

We will be happy to receive from
you the suggestions of the names
of gentlemen whose correspondence
would be desirable.

Very respectfully,
Your dect^d serv^t

A. W. Clinton.

To Geo. Engelmann.



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In the meantime you will see a
series of papers these are specimens
in my hands of that. I have, indeed
you know or suppose that I have
found, or believe me I have
just been to a lot. The
The will be happy to receive from
you the suggestions of the
of gentlemen and I am
wonderful to hear

Very respectfully,
Your obedient servant

W. W. Engelmann

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ENGELMANN PAPERS

The Rev. Dr. Engelmann



Rec^d - Febr 2^o
Rec^d Febr 4

Buffalo, Jan. 30, 1864.

Dear Sir:

Prof. Gray has, two or three times, advised me to send to you, for determination, plants sent by me to him, upon the ground that they were of genera to which you had paid more particular attention.

It is about two years ago that I returned to Botany, which I pursued in my youth, and which I necessarily laid aside more than thirty years ago; & I recurred to it as the department in which I could, probably, do most service to an infant Society of Nat. History, which you have honored by accepting me honorary Membership, and which has done me the honor to select me as its President.

In the genus *Potamogeton* we are all at fault; or rather, we are by no means satisfied with our des-



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termination of one species.

I have not been able to identify your *Sparganium angycarpum*. Our ~~sp~~ *S. simplex* is very variable in size. I have found a *Sparganium* growing in water 1° - 1½° deep - with long, floating radical leaves, which I cannot reconcile with either *S. natans* or *S. angustifolium*, and which I am half inclined to regard as a new form of *S. simplex*.

Last summer, near Alexandria Bay, I found a small *Sagittaria* growing in the water - the radical leaves short, broadish, and straight ensiform, and small, floating leaves, seldom more than one to a plant. I found some in flower, and, I believe, only with a few flower buds. In another locality, ^{in the vicinity of the Bay} I observed & collected the same plant, growing in water, the leaves somewhat larger, & spread out like a star - & no floating leaves in scapes. I traced it to the muddy ^{shore} where a smallish *S.* was



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in blossom, without any such short leaves,
and could not satisfactorily identify them
as the same. Subsequently I found
what I suppose to be the same S., in
pools made in making the railroad,
at Coldwater, between this place & Rochester.
It may be your S. calycinum, but I doubt
it. Still later, when the flowers of first
had wholly disappeared - I found, in water
about two feet deep, in a bay of an Island
below the City, what I suppose ^{may} be a
~~small~~ large form of the S. heterophyllum with the
similar submerged stately arranged
leaves; and I began to fancy that one or
both of our common S.s., when growing in
water, have these short, radical leaves. That
they send forth these leaves which like
those of the Plantago, at first float & then
become erect.

The specimens of all these of the Spar-
ganium & Potamogeton, and of some other
things which I do not now recall I would



like to send you for your decision: but
knowing how fully your time is occupied,
I do not like to have no right to
make any draft upon it, however
trifling, without your permission.

The *Cucurbita spiculosa* has come
in again with the flag, the cultivation
of which was renewed about 2 years
ago.

I can send you the *Equisetum palustre*
from this vicinity: but it will give
me pleasure to send you one species
of any genus which you are specially
attending to - or, indeed, any thing which
I have, or can procure: which you
may desire. I need not say that
anything with your label would be
duly prized, by

Yours more respectfully

G. W. Clinton

i.e. Geo. W. Clinton.

Dr. Geo. Engelmann.



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Recd 2 Feb 1864

My dear Sir

Buffalo, Feb. 15, 1864.

My dear Sir:

Many thanks for your polite and kindly response to my letter. I shall always remember it gratefully.

In the hurry of preparing for a short visit to Albany, I have put up a small packet of queries & given it to the Express. I have added one or two things which I thought might please you.

The packet includes the *Sagittaria* and the *Spongyrinum* which I gather you. I also put in (the number follows the *Spongy* in I think) a *Sagittaria* which grows with the *Spongyrinum* in deep (1-3 feet) water and the fruit of which is reddish.

Prof. Gray thought the plant I have labelled *Najas* to be a *Najas*



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The small *Callitriche* grows & spreads
on mud. and is, perhaps, *C. verna*,
or *terrestris*.

Two or three of the plants included
are of the Genus you used to
call *Chara*. but, I understand
that, during my 30 years sleep,
great changes have occurred in
reference to these water plants.

Is there any treatise on the *Characeae*
- or whatever they are called?

I hope to be able to devote
much time to collecting next season.

It will give me much pleasure
to bring together for you all that
I can find of any particular Genus,
or Genera. Indeed, to do anything
I can to in the way of collecting
material for you.

I would like very much to have
a few plants, ~~labels~~ with your labels -
particularly your own species - any-
thing that you can, without trouble,



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lay your hand on - such as *Euphorbia*
glyptosperma. - Our *Euphorbias*
are few - only *E. lathyrifolia*, (nat^o), *E.*
caldasensis, *E. platyphylla*, *E. hyperici-*
folia, *E. maculata*, & *E. polygonifolia*.

I hope to be able, as soon as I
receive your answer, to put the
Cent. of the plants of Buffalo into
your hands. It will, necessarily, be
incomplete - being the fruit of only 2
seasons.

Yours very respectfully,

W. Clinton.

I am sorry about the *Potamogetons*. I
shall have to determine ours, if as well
as I can; and I have no confidence
in myself - and you have heightened
my distrust of the books.

Dr Geo. Engelmann



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New York 18th

Buffalo, March 16, 1864.

Dear Sir:

Late in the fall, I found growing here, the
Polygonum nodosum, v. *incarnatum* of Gray, with
it the enclosed. This P. was of two colors - one of
a light red & the other a light blue. I sent
the 3 to Gray, ^{for names,} remembering that this (the
enclosed) though it resembled the *Pennsylvan-*
icum hardly but. He answered - "P. Penn-
sylvanicum". I replied, in substance, that
he had disappointed me - that I had been
reading, lately, Hooker's descrⁿ of the nodosum -
& had half expected that he would recognize
this as the nodosum & the incarnatum
as a species. He wrote (on the 14th): "Do not
ever give up a point, because I decide against
you. Appeal - to Nature & further observation.
So about the *Polygonum Pennsylvanicum*
- examine & collect again. I have to decide
most things off hand. Moreover, look out
for hybrids in *Polygonum*. - Fide Engelman.
By the way, send pieces of the doubtful
one to Dr Engelman, & ask him. He



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"is far more Polygonaceous than I am."

I must obey Gray's orders - even though Dr Engelmann smile at my ignorance.

I ought to add that I have long known the Penn^{ns} - and that this fellow of Penn^{ns}, is not an ordinary form.

Very Respectfully yours

W. W. Chittenden.

for Dr Engelmann.

I have a strong suspicion that Dr Torrey, in his N. Y. Flora, has erred the State in mentioning to it only four native species of Helianthus, and that he may have blended species in his descriptions; and so I have half made up my mind to pay special attention to that genus.

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Rec^d March 26th

Ans^r Sept 3rd

Buffalo, March 23, 1864.

My dear Sir:

Thanks for your kind favor
of the 6th. You must not allow my
calls upon you to draw upon your
time so happily devoted to service:
I had supposed that answering such
queries as mine would be matter of
mere relaxation.

In truth, last year of the year before,
I was so pressed with the labor of col-
lecting, and, I may add, enjoyed
the fields of plants so much, that I had
little time, & I fear me little desire
for research. Like Adam I was
content with the names of things - to
connect the name with the thing.
I hope, next season, to have more
opportunity for careful examination.

And so it is that, in answer



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to your question. I cannot now state whether I have found here "the large ~~monocarpium~~ & the still larger dioecious forms of *Sagittaria variabilis*:" but can only say that I collected elsewhere a very large & broad leaved form. It did seem to me that there was no end to the forms of an *Common Sagittaria*, and I collected many. If it will please you, I will send them all to you.

I am afraid that we have not the *Sagittaria simplicifolia*.

Long ago, probably in 1827, I crossed from Albany to Bath, and there, to my great ~~delight~~ delight, found, in full flower, in the mud margin of the river, & I think, between high & low water marks, a *Sagittaria* not 4 inches high. We concluded to call it *S. pusilla*. Last August I visited Albany, & I went to Bath, hoping to find the little beauty



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again; and lo! the whole locality was
covered by a hateful dock - and I
was almost glad to observe that the
dock was itself in ruins.

The printer promises to give me
my list of the plants of Buffalo &c.
next week. It is a mere list, &
quite imperfect; but, such as it is,
I will send it to you.

Very truly & respectfully yours,

W. W. Johnston.

Dr George Engelmann.



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Recd Sept 13th 1864

Asy same day Buffalo, Aug. 31, 1864.

My dear Sir

The enclosed *leucocenta* is
from Youngstown. There are dif-
ferences of opinion among us touching
it. Please tell me which it is,
and oblige

Your friend & servt

L. W. Chittenden.

To Geo. Engelmann.



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Rec^d 10 Sept
Aug 12 Sept.

Say. Clift
8 Pall. Inst. Angr.
Callcutta

Buffalo, Sept. 7, 1854.

My dear Sir:

Many thanks for your prompt de-
termination of the *Cuscuta* I sent you. It was
found in a little, wooded dell, by the residence
of Dr. A. G. Skinner, at Hamletton, Niagara
County, New York, about a mile above the
embouchure of the Niagara River.

Yesterday I found what I can't disting-
uish from *C. Gronovii*. but the flowers &
fruit were in masses, larger than
those of *compacta*. I mean than in any
spec^{im} of *compacta* I have received.

Two years ago, I found at Meadville,
Pa., a *Cuscuta* which, to my eye, had
not the aspect of *Gronovii*: but Gray
saw no difference. Still, I doubted:
and, when I lay my hands on it,
if I still doubt, I will send it to you.
I have been able, this season, to
identify, in this vicinity, only *Sagittaria*



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variegata vs. heterophylla. So far as
I can now recall the observations
of last year, the immersed, stellular,
phyllodia-like leaves, were confined
to *S. heterophylla*. The small ~~variegata~~
leaves floating on long, slender petioles,
~~and~~ I have not been able to find.
Perhaps they were produced only in
the autumn.

I would be very glad to receive
any plants you may send. But it
is, I always have been, very far from
my thoughts, to give you any trouble,
or to draw upon you. So precious
time unreasonably.

Believe me,

With great respect,

Yours truly,

G. W. Chittenden.

Dr. George Engelmann.



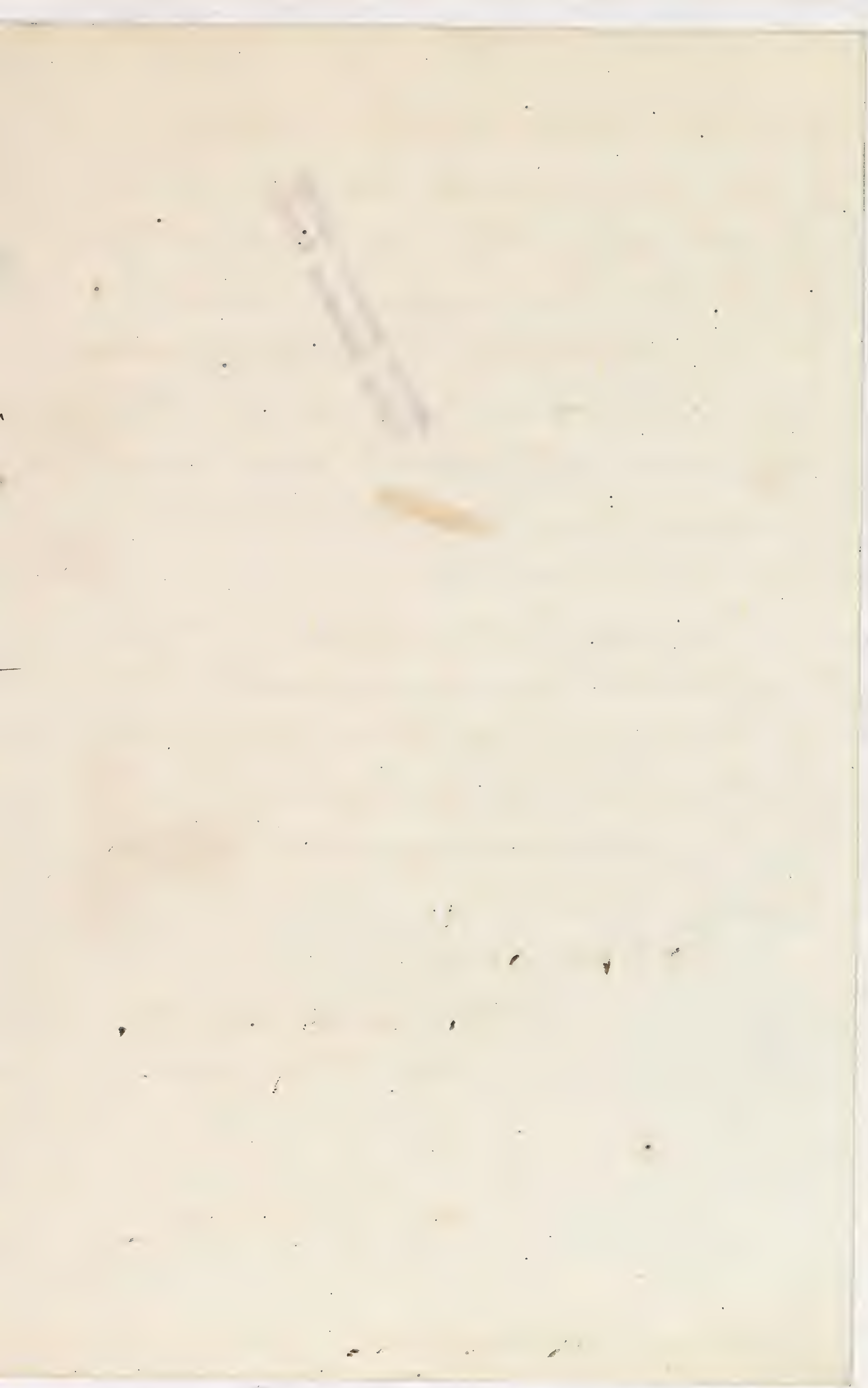
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Nov 1st
as old 5

Buffalo, Sept. 7, 1854.

My dear Sir:

I take pleasure in in-
troducing to you Augustus R.
Griseb., the Entomological
Secretary of our Society, and a
gentleman every way worthy of
your esteem. Mr Griseb will take
charge of any plants you may
wish to send me. Please remember,
my dear Sir! that I do not desire
to put you to any inconvenience,
but that I do desire to have some
of your labels in our herbarium;
and that a few fine specimens of
species which you have named
would possess especial value.

We are very desirous to have
one or more exchanging correspon-
dents at St. Louis - indeed to have



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many such correspondents in the
Southwest; or West of the Mississippi.
Will you have the kindness to
suggest some to Mr. Gentry - such
as he can probably call upon during
his tour; and also, when convenient,
to write to me on the subject.
Must respectfully thank you.

G. W. Chittenden.

Dr. George Engelmann.



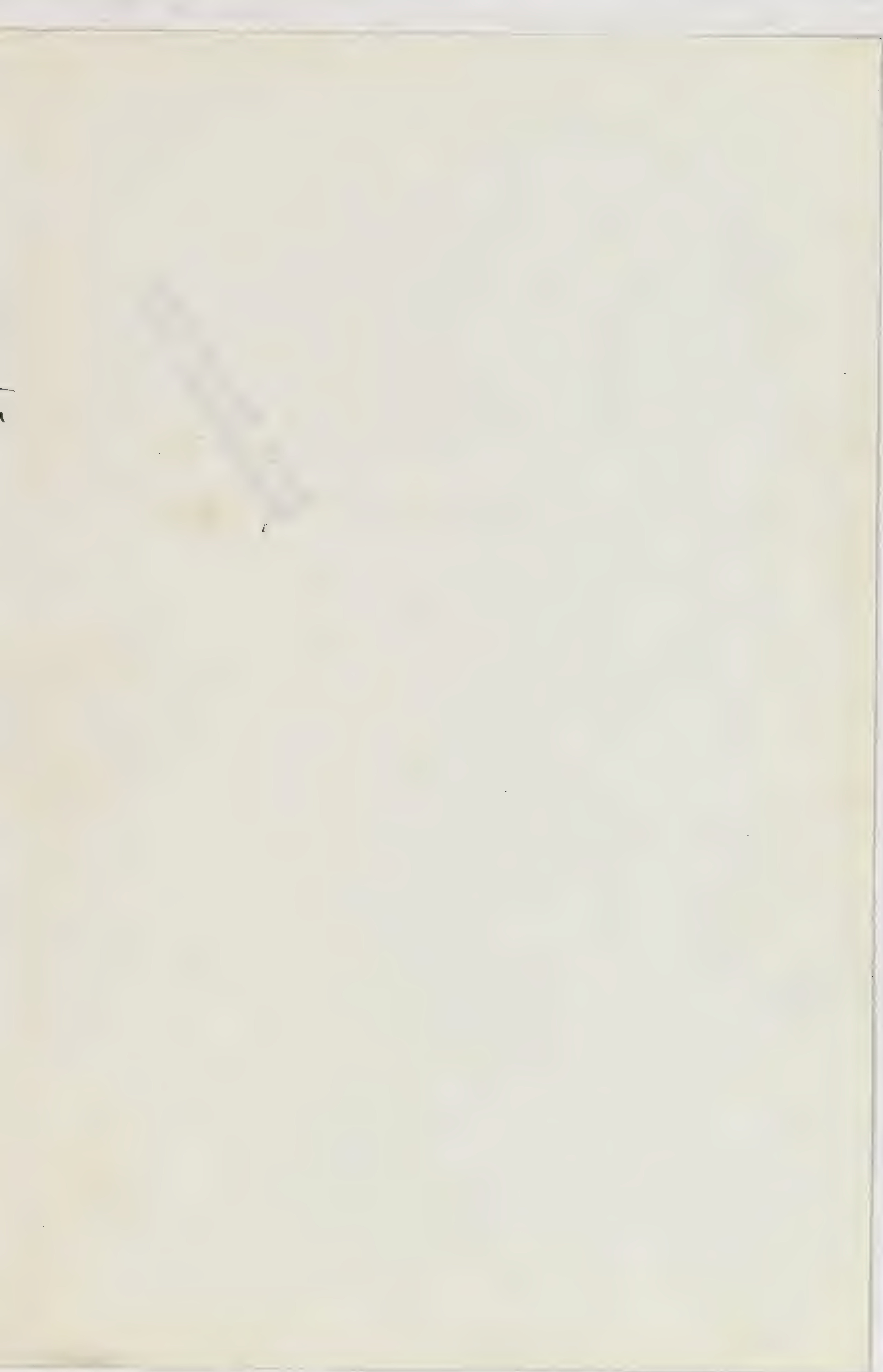
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Rec^d Sept 28th

Buffalo, Sept. 25, 1864.

My dear Sir:

~~These~~ being before yesterday, during
the battle of Cattaraugus County, in drain by
the roadside fed by Springs. I noticed what,
before the receipt of your last letter, I should
have called *Callitriche verna*, little in flower
& fruit. I decline name, hoping it will reach
you fresh: What shall I call it?

With it here & there I noticed a linear-leaved *Callit.*
richii, which I supposed might be *autumnalis*,
until I noticed that it grew to the surface. It
presented there a little star-like verna. I then
found it not reaching the surface. Vales,
in two or three instances, having upper leaves
like those of verna. I also decline
name of it. What shall I say of it?

Very Respy & Truly yours

G. W. Clinton.

Dr. George Engelmann.



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Rec^d Oct 5th
the same day

Buffalo Oct. 11 1864.

My dear Sir:

Very many thanks for
your letter just rec^d. Soon after
reading you the *Callitriche* &
sent you, in looking over the ~~collected~~
reserved specimens, I noticed, to
my great horror, that what I
had marked *Callitriche* No. 2
was nothing but the *Quadraria*.

Mr David F. Day of this place,
after I had given him spec^{im} of
the cut^{ting} from Alexandria Bay,
told me that he had found it
here - but he has no spec^{im}
and both of us doubt it now.

I have in vain endeavored
to find a botanist located on
the West (New York) side of Lake
Champlain. Perhaps by Whys
I can find one on the Vermont



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sides. It is far beyond any ordinary reach.

I inclose herewith a *Cuscuta* & label - also labels of *Gray* *Munieria* *Gray*, and of a water plant, which I mailed in another packet. I also inclose a few seeds of the *Gray*, pressed out in drying.

The water plant I have sent to Gray - but he does not attend to such things.

On the 24th Sept. I had the pleasure of finding, in the marsh at Salina, what I suppose to be *Leptochloa fuscoides* & *Panicum poliperum* - two grasses which are new to me, & which I did not expect to find so far inland & north.

Hoping to hear from you soon, and to be able to send you & send you some better



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things by the time I have
that pleasure. I am
Very truly yours,

L. W. Chittenden.

Ny's major. All

In the (brookish?) affluent
of Oneida Lake, a few rods
from the Lake at Liverpool,
Oneida Co. N.Y.

Dr Geo. Engelmann

Caton



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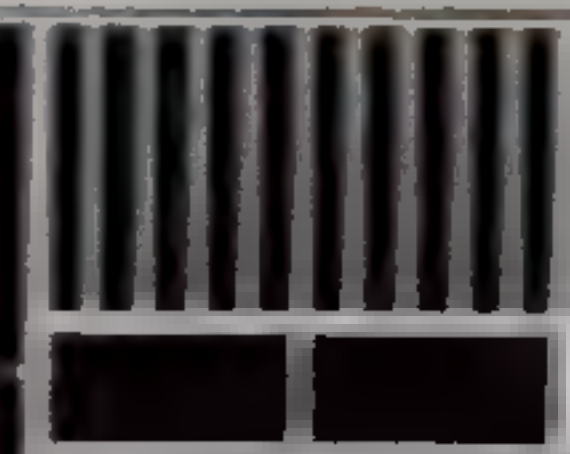
Rec^d Oct 15th
Ans Oct 22^d

Najas major

Buffalo, Oct. 15, 1864.

My dear Sir:
I am glad that you found
time to put up some plants for me. I
long to receive them. I think I could
do something for you in return. Let
my letter, please do not consider yourself
I self under any obligation to answer
them. I shall (as I now do) send you
things, which it may seem stupid to
send. If so, pitch them on the fire.

I rec^d your touching Najas major
yesterday morning. (The day after sending
it, I was changing the paper. I found
the fruit, & thought it a Najas.) It
is very pleasant to me to believe that
I have, though in so humble a way,
done something for botany. In re-
ceiving your information that the
plant was new to America, I
felt that I ought to acquire more



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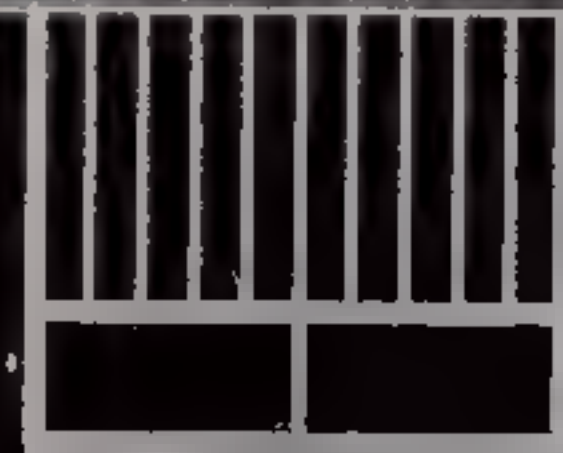
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information touching its station, & secure
better specimens for you and for Gray. So
I went to Syracuse last night. & today
exploded from 7 A. M. to 1 P. M. ^{On}
then had to make for ^{the} ^{Road} station so
as to get home this evening.

Syracuse, Salina and Liverpool
are all on the easterly side of the
Cayuga Lake. A large ^{low} plain, ^{formed}
after marshing, extends round the head
of the lake, narrowing as it approaches
Salina & becoming a mere strip
of beach at Liverpool. (Syracuse &
Salina have grown together - Liverpool
is 2 miles north of Salina.) On this
plain, & on the first terrace above it
are the Salt works. The Erie Canal
passes through Syracuse, and, at
Syracuse, sends off a branch - the
Cayuga Canal, which passes through
Salina, and at the foot of the hill
on which Liverpool stands. At
Liverpool, there is a low flat, ^{land}.



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with salt water which comes down to the
Canal. Through this flat runs a small
stream, which passes under the Canal
by a ~~a~~ culvert, & then runs about
14-16 rods into the Lake. In the
stream, between the culvert & the Lake,
on its lower (south) side, I first
found the *Nerian* *margin*. Below (north of)
the stream, and three very shallow pits =
the ponds or pools, in the beach,
apparently produced by the water
rising from the Canal.

This morning I began at Salina
& walked ^{down} the beach to the Creek,
here & there I found fragments of
the *Nerian* (and two or three fairish
specimens) in the water, on the
edge of the beach. I did not, however
ever detect it swimming in the Lake.
I also found the *Chama* (?) which
I enclose in great abundance
cast up ^{to} the edge of the beach. It
does not look like our common one.

Chama foetida



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and I would like to know its name.
I also noticed small patches of a
greenish powder floating at the edge
of the beach - reminding me of the pollen
of the Vallisneria - & I collected some
in a bit of newspaper - & used it.

In the ~~channel~~ between the Canal &
Lake, I found some more good
specimens of the same - & all
on the beach below the Creek, I
found fragments of it.

In the thicket or lowest part, I
found it growing abundantly - but
the water being shallow, the plant
is much lower than in the stream - &
it is also much lighter colored.

To my taste, the water in the park
& on the edge of the Lake, is too
slightly brackish. The Lake is
a fresh water one - though, when I
had, I was told, by read, that a
bottle let down in it to a great
depth brought up salt water. But,



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as to these matters, I shall write
for accurate information. The fishes
of the Lake are these common to
the ponds, lakes & great rivers of this
region. In returning, I examined
the steamer. From Salina we
went way up, towards Syracuse,
& did not find the Naia. I did
not, however, go to the beach.

As to the plants of these marshes,
the peculiarly aquatic ones, so
far as I can now recall them -
are *Salicornia tuberosa*, *Ranunculus*
Cymbalaria, *Trifolium maritimum*.
I believe I wrote you that I had
found no *Utricularia*, *Leptodermis fasciculata*
and *Panicum puliferum* (the sheath
of which are, sometimes, hooked.)
Chenopodium glaucum is very
abundant. But the most abundant
plant is *Atriplex hastata*. I also
find what I am inclined (on
the suggestion of Gray, to whom I last



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August 5th think. Sent a very miniature
specimen) is *Cheimopodium suberum*
(the leaves are thick & apparently fleshy,
but ~~soon~~ in drying, seem to dissolve
and stain the paper. Recurrence (that.)

I ought to add that *Scirpus marit-*
imus is very common in these
marshes.

Excuse all this detail. I
believe you, though very tired,
will study *Scirpus maritimus*
with interest.

W. L. Chittum.

Dr. George Engelmann.

The green powder of *Chimaphila* has either
dissolved or sunk into the paper.

Still, I enclose some of the paper.



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Rec'd Oct 22
as sun day

Buffalo Oct. 17, 1864.

My dear Sir

The same day, or the day
after, I mailed you the best water
plant from ^{near} Salina for two pools rather.
I examined it, and determined that
it was *Zannichellia pulestris* but it
is very much smaller than the only
specimen I have from the seaboard.

I have just grubbed up from a
ditch of flowing water the inclosed
Callitriche. It was wholly submerged,
and there was very little of it.

Very respectfully
Yours - though benumbed -

G. W. Clinton.

Nitella flexilis
Chara foetida (vulgaris)
Callitriche vulgaris
Zannichellia

Dr. George Engelmann.

The other thing - a *Nitella* *gracilis* -
from the same ditch.



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المسألة الأولى، ٥٨١.

المسألة الأولى

المسألة الأولى، ٥٨١. المسألة الأولى، ٥٨١. المسألة الأولى، ٥٨١.

المسألة الأولى، ٥٨١. المسألة الأولى، ٥٨١. المسألة الأولى، ٥٨١.

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المسألة الأولى، ٥٨١. المسألة الأولى، ٥٨١. المسألة الأولى، ٥٨١.



Rec^d Nov 9th
Nov 13

Buffalo, Nov. 5, 1854 -
5^{1/2} P.M.

My dear Sir:

On returning home, after
a six days absence, I find a letter
from the Rev. James Fowler, of
Richibucto, N. B., inclosing the
inclosed. He regards it as C. verna,
but expresses surprise that it should
be in full bloom, not only all
summer but "till fast bound
by the ice. His letter is dated
Oct. 28, & mentions it as though
recently collected.

I had intended, if possible to
run up to Alexandria Bay &
get the C. verna for you in
better fruit - but it has turned
out impossible. So soon as
I can I will look up my
last year's collection & send
you a supply & write to you.

Yours very truly
Wm. Edwards

Dr. George Engelmann.



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12	24 Aug Expt.	5	4
10			
7	second 2 hrs. in Sept	2	2
11			
6			
7	Oct 20. 21. 25 31	4	4
9	Nov 2 ^d Expt.	1	1

~~Nov. 2^d Exam~~

Nov 9 High - 5 4

68
15

83

68	single	6
	1 Explan	5
	4 Explan.	2
	5 with Pl.	3
	1 high	5
	2	2
68	—	—

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Rec^d Nov 10th

Ans Nov 13

Buffalo, Nov. 7, 1864.

My dear Sir:

In looking over some letters this morning, I discovered a fact which, possibly, may be of use to you, touching *Callitriche*. & so I communicate it.

Dr Daniel Clarke, of Flint, Mich. to whom I had written asking him to send me all his *Callitriche* for you - wrote me thus, in

~~August~~ ^{October}: "I am sorry to be unable to furnish you any *Callitriche*s. I have never met with any here, though I have seen them abundant in Mass. especially at Leape Lead. I have made a special search, but with no success."

It may be that Leape Lead is worth exploring. The Boston botanists would be glad, I presume, to send you; but the only correspondent I have



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among them is William Brewster, Esq.
I shall write to him, this evening;
and also to Dr Clark to ascertain
whether he has any correspondent,
or knows any active botanist or
is near the Cape.

~~Very truly yours~~

W. W. Chittenden.

Dr George Engelmann.

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Rec Nov 16th

Buffalo, Nov. 12, 1864.

My dear Sir:

I have suffered for some time from an entire lack of energy - could not bring myself to work. Though great has been the need thereof. In the early light of this morning, I have forced myself to look for shells out from Alexandria Bay, for you, and inclose all I could find, with such search as I could make. I must have plenty more. V. by V. by, will send you more. I am afraid I neglected to thank you for the plants you sent me by Mr. ~~W. L. Lister~~. After a long delay, they reached me, and all some what I wished, and almost every one had been a desideratum & filled a gap in my collection. I thank you very much, and, stupid as I am, remain

Yours most truly & respectfully
Dr Geo. Engelmann. W. W. Lister.



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Nov 25th

Buffalo, Nov. 22, 1864.

Dear Sir:

Many thanks for your last. Like all I have rec^d from you, full of information.

The very handsome spec^m of *Callitriche verna* I sent you, are from the Province of New Brunswick.

W^m Bartt. Esq., of Boston, to whom I had written touching the *Callitriche* of Cape Cod, &c., writes: "Some years ago, I collected *Callitriche*, and could determine but one species, *C. vernalis* (verna)." It continues to grow in water till destroyed by severe frosts, but I think it does not fruit at this season. I will, however, look again at the genus, and, if I can find anything interesting, it shall be at the service of Dr. Engelman. Next year, no doubt, I shall be able



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to collect what grows here. I have never
been at the Cape. It is, probably, not
a rich ~~locality~~ field for botany, but
no doubt there is something there to
glean."

I am confirmed in my notion,
that nothing will more certainly, at
the present, advance sound botanical
knowledge, than the careful & thorough
study of individual genera by
competent botanists. We have too
much theorizing, and as they are
started, too often leads to the pervasion
of facts.

Yours most respectfully,
G. M. Clinton.

G. M. Clinton.

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Dr. George Engelmann.



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I find *Superna cuneata*, in
addition to the *superna* City.

I have had so many bottles put
for the purpose of *superna*, that it is
possible I have enclosed the
material with the seed. I intended
to send you a quantity of *superna* for
analysis, but did not
It will give you pleasure to
send you anything I may
have any desire.

About a fortnight ago, a
party of men found in
underground *superna*, about 4 miles
East of Rochester a *superna* growing
in great profusion. I enclosed
herewith a sketch of *superna*
remains here for your use.

The stem is long, filiform,
slender. It roots at the lower
joints. It branches above, and
the branches, below, the leaves are



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sometimes vesiculate. When fresh, the
leaves are harsh, and they have a
rigid, prickly feel - so that one of the
party, in promptness, called it the
water-whistle.

Very truly respectfully yours

H. W. Chittenden.

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Dr. George Engelmann.

I find, in the waters of our river -
a *Butochuspermum* - and
a *Spongilla*. The latter in long, matted,
slender masses, no leaves.



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the structure resembles. When fresh, the
leaves are smooth, and they have a
very peculiar feel as that of the
fruit, unperfected, called to the
water. Water.

They are very

W. W. Johnston

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to George Engelmann

to find in the western of our
the structure resembles - and
the fruit is very smooth
leaves are smooth, and they have



Recd Sept 15th

Buffalo, Sept. 13. 1865.

My dear Sir:

Prof. Gray seems to think
that specimens of the *Saxifraga* of
the Niagara would be acceptable
to you. So I enclose them.

Yours very truly
W. C. C. C.

W. C. C. C.

Dr. George Engelmann,

Saxifraga *diversa* *form.* *var.* *Bot. Fr.*
XI. 101. (1864)

scarcely distinct from *S. echinospora*



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Buffalo, Sept. 12. 1862.

Dear Sir,
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the specimens of the leaves of the *Trigonum* which you were good enough to send me. I am sorry to hear that you are unable to give me the names of the plants. I will endeavor to identify them for you.

Yours very truly,
Wm. Engelmann

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Trigonum

to the
XI. 101 (1862)



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Rec^d Oct 2^d
Ans Oct 9th

Buffalo, Sept. 29, 1865.

My dear Sir:

I send you what of the
Grotes I can spare, hoping to do
better by Voyage: But I am so busy in
pursuing up the matters that I have
very little time for any thing. As to
what the little beast is, I don't know -
one botanist regarded it as *G. muricata*,
Swiss. You call it *G. Braunii*, *Swiss*,
and think it hardly distinguishable
from *G. chinensis*. Now it is suggested
that it is the same that Porter & Leidy
brought from the Sault, & that it is
G. Swida, *Swiss* has decided to be the
G. lacustris *Swiss*. Well! I believe that
it is *Grotes*. As to *Wardii* *Swiss*.

I am compelled to say - by Voyage.

Very respectfully yours,

G. W. Whitman,

Dr. George Engelmann



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1845

1845

1845

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Rec^d Nov. 9th

Ans Nov 10th The enclosed is
sent you as a present of the
Journal of the Buffards Nov. 6, 1865.

My dear Sir: I have not
yet had a chance to write you
as I have been so busy. My intention as a good
friend calls me passing for collecting
plants. I have been very busy
almost wholly to the mosses, and
according to Mr. Lesperance, I
have had good success. I did
not like to compare you favor of
Oct. 4, without sending you living
plants of the Niagara River. But
the mosses pulled me about
everywhere, and when I made
up my mind, as I did
several times, to start down the
river, on the morning of the
6th, we would come a
storm, rising the water. Making
the detection of the little beast
impossible. If he deserves his
name you shall have him



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done. I suppose all I have to do,
after catching, is to wrap him
in damp moss and mail
him. You shall have too,
Ritium maritimum from Sa-
lins, and anything else you
may have a fancy for and
I have or can get.

As to *Quercus*, why did you
take it up? I had mine all
nicely settled by my worthy
friend Beble, and now you
must undertake the genus and
unsettle them! Here is the list of
my Buffalo *Quercus*, according to
Mr Beble:-

- Q. effusus*, L.
- Balticus, Willd.
- paradoxus, E. Mey. (Ex Gray.)
- acuminatus, Michx.
- articulatus (= *Q. lamprocarpus*.)
- " var. *pedunculatus*, Gray.



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G. nodosus, var. *vulgaris*, Torr
" " *mequetphalus*, Torr
(I am half inclined to think this
a distinct species.)

tennis, Willd.

uniformis, L.

2 A *paternus*, Knuth. (This Mr

B. now seems inclined to abandon,
and advises me to label the
poor fellow thus:-

G. — ? (= *G. acuminatus*, Ell!)

How shall I fill that awful blank?

In these I may add *G. bulbosus*,
Sutina, M.Y. (I found it there year
before last.)

Very truly & respectfully,

G. W. Clinton

Dr. S. Engelman.



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Recd Nov 14th
Ans Nov 21st

Ruffalo, Nov. 11/1865.

My dear Sir:

My heart is broken. I
expected to receive a Tridacnanus
from Ohio - & have just got it -
i. e., a huge box full of rubbish:
had this too, on my return from
I fear an unsuccessful attempt
to redeem my promise touching
the Suctor.

We have had a bitterly cold &
windy time; but the Sun shone
not smilingly this morning &
so I took a boat ~~and~~ went down
the river. The water was icy, &
there was wind enough to baffle
me in his attempts to grab the
little insect out of the water, &
the water itself was icy. The
miserable results of my explor-
ation I send to you. Arriving



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in one I think one winter, & perhaps,
two or three spring more - knowing the
evidence also a plant worthy of
cultivation - Ranunculus repens,
the small form - which grows
freely in meadows shallow water,
as well as on the wet banks.
Yours most respectfully,

G. W. Colverson.

Dr George Engelmann -



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Nov 24th
Dec 4th

Buffalo, Nov. 25, 1865.

Dear Sir:

That miserable little Isoetes - which seems to be entitled to no settled name - has a local habitation. It grows under the water - wholly submerged, the water varying from 1 to 3 feet & perhaps more in depth. The height of the water in the Niagara River below Buffalo to the Falls, depends mainly upon the wind. When the wind drives the waters of Lake Erie eastward, it rises; when westward, it falls. In one place I found it growing in a stiff clay - there there was very little of it. In another station, where it was more abundant, & where your specimens came from, it grows in a gravelly soil interspersed with & covered by



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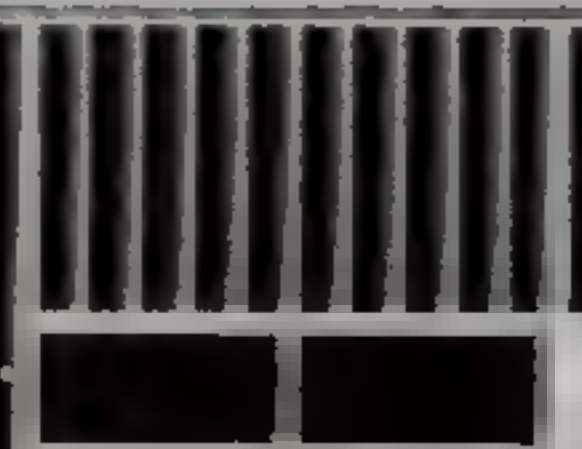
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the muddy sediment of the river. Shaw:
berry Island, on the western side of
which this station is, is about five
miles from Adams Street, Buffalo; &
I may be able to watch this little
nameless vessel next Summer.

As to the other plant there is
something strange about it: and
here I must exercise ~~my~~ ^{my} ~~own~~ ^{own} ~~judgment~~ ^{judgment}
a little.

Niagara River ^{at level of Strawberry G.}

The above admirable sketch explains
itself sufficiently: But, to obviate all
hesitation, I'll tell you, that the plants
so clearly depicted are *Phragmites*, that
the dark space marked aa is an almost
naked edging of the Island at that place,
of a remarkably stiff & tenacious clay, often
covered by the water & seldom completely
dry. But the water edge of the edging the
land falls abruptly ^{into water} 3 in. to 1^o deep. I first
noticed that little plant, in 1863 or
1864, growing on & confined to that



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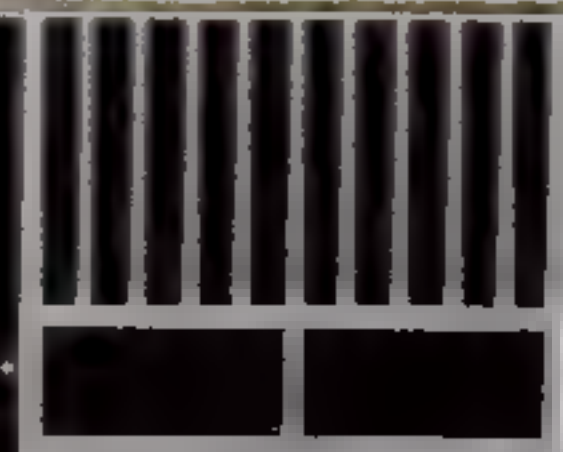
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Recd. Nov 29 1865
No. 4

edging. I watched it, expecting flowers
or fruit, & found none. I concluded
that it was *Ranunculus reptans*, &
sent some of it to Gray, who wrote
back that he thought it was an
endogenus - just as you do.

This past season I found it there,
in the same place, no flowers or
fruit, I sent some to Gray, who
pronounced it *Ran. flammula* or
reptans the smallest form. You will
observe that this little fellow creeps.

I then noticed what I sent you,
and what I am confident is the
same thing, growing on the grassy
edge of the Island. Where it slopes
very gently & continuously into
the river, and grows extending
into the water to the same depth
as the Islets. Its habit is different
from that of any *Sagittaria* I ever
saw. I have collected the pusilla
(very many years ago, however) on the mud




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of the Hudson River near Albany - &
if my memory is not wholly at fault,
that is not reptant. I am aware
that at least some species of Sagittaria
throw out tubers (or buds) bearing roots -
them - but I never saw one
creeping like this .

A few days ago I rec^d some of this (?)
Ran's. ~~with~~ of a larger form, from
Michigan I think - & my correspondent
wrote that he had observed that
growing in the water (I think he
wrote) 2 feet deep - (I am writing at
Chambers, & have not the letter with
me) and that in the water it
never flowered.

It may be that I compared two
distinct plants, growing together. But
I do not think so.

As to names - if you will name
them ^{for me} I'll send you a set of
those of this vicinity.

Najas tuberosa, Paine, is, so far
as I know, the only one we have in
this vicinity. I have not perfect faith



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Nov 29 1865

in it. Gray thought that it could
be distinguished by its having only
a small cup shaped airt at the
base of the seeds, or none at all,
and desired me to investigate.
I did, & found about three
three pods - one with the seeds
destitute of airt, one with seeds
with a small cupshaped airt at
the base, and one with seeds wholly
covered by the airt.

In the vicinity we have, so far
as I know, only one Nuphar; and,
having always supposed it to be
the Adonis, I have never noticed
it particularly, although, of course,
I have collected it. My recollection
is very strong that it is yellow
& red. But I'll look it
up.

Send now for the law!

Yours truly,

W. W. Chittenden.

Dr. George Engelmann.



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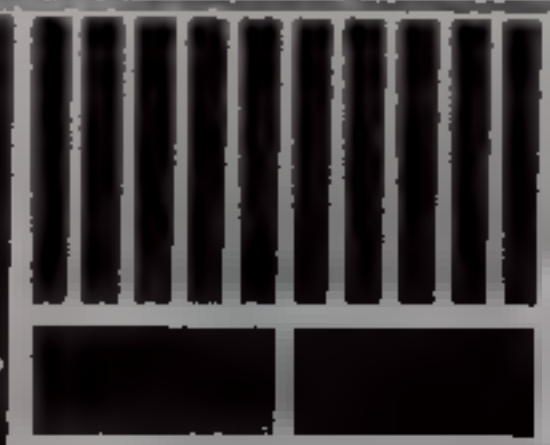
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Rec^d Dec 26 1865

Jan 24

Buffalo, Dec. 23. 1865.

My dear Sir:

I write, mainly, to wish you a Merry Christmas, and a most happy New Year. May you, in 1866, settle Nuphar, Myriophaca, Yucca, & do far greater things for Science!

I write also to say unto you that, on examination, I find that our Society has not, of Vol. 2 of your Academy's proceedings, pp. 218-267.

Also to say that the Cabinet Report of the Regents for 1864 - (issued in Jan'y, 1865) is just out of the printer's hands. It contains a very interesting local Cont. by W. Purdie. I mail you a copy.

Our Society having provided a



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GARDEN

fine case, I am busy in arranging
my collections, on preliminary
to setting up the Herbarium.
That Herbarium, which will
contain almost entirely of my own
collections, & of plants recd. by me
from correspondents - indigesta
mules. The labor is great - but,
when I have once got the mass
into order, I shall be able, with
perfect facility, to gratify the
desires of my correspondents when
I have the means. I like the
work: Such work here always
pleased me. But, until the first
primary separation and distribu-
tion into orders have been made,
I am almost powerless. So soon
as that is done, I shall make
up a small packet for you -
not forgetting yours.

Most truly & respectfully
Yours
Dr. Gussone & Schumann. W. C. C. C.



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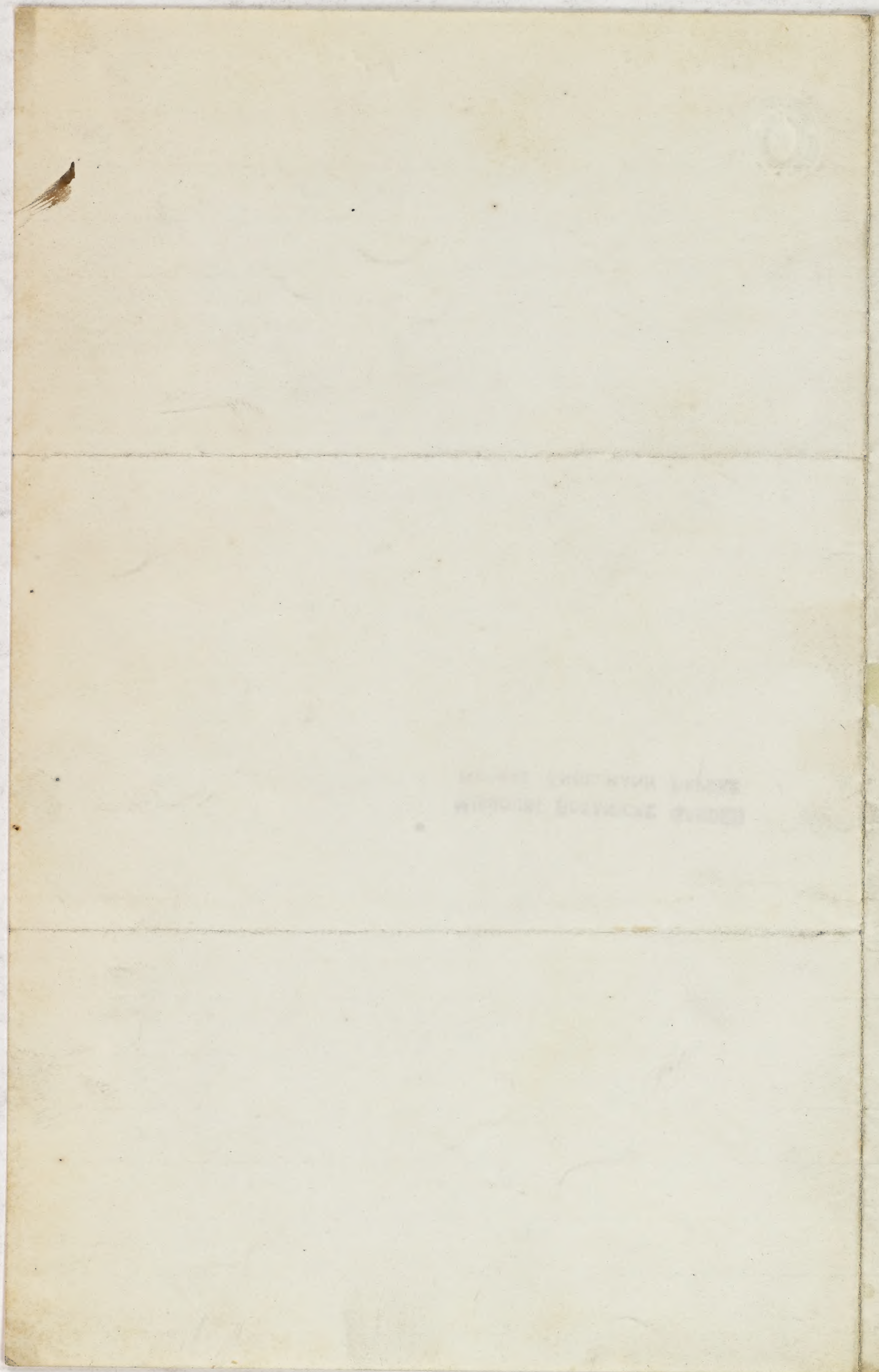
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