

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 includes yourself among them.



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I most sincerely hope that the agitations
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. I hope you will permit me
to 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 him showing
me the Trillium he had gathered
in the vicinity of St. Louis. He
has 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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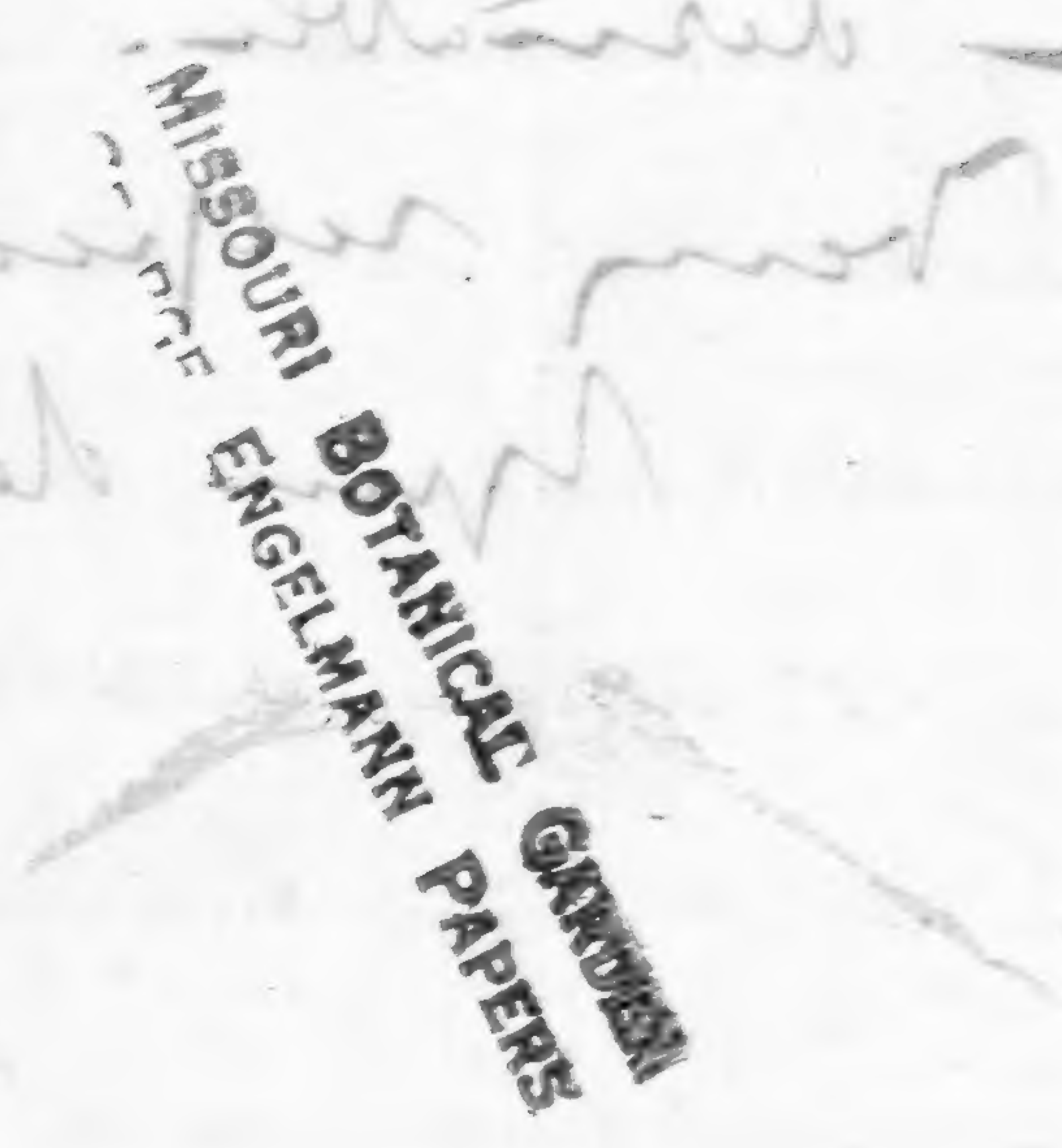


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the measure of the weight of the
force of pressure and the
in any branch of the study, and
perhaps in the study of the
phenomena, or rather in the
light of the study of the
the will be found to be
the the development of the
of phenomena and the
should be observed

very much
the best of

W. Engelmann



the the study of the



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 resorted to it as the department in which I could, probably, do most service to our infant Society of Nat. History, which you have honored by accepting our 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.*, 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 *Cureta spilius* 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 *Sparganium* which bother me. I also put in (the number follows the Sparg.) (I think)

a *Sagittaria* which grows with the *Sparganium* 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 now used to
call *Chara*. but, I understand
that, during my 30 year 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.*
calvescens, *E. platyphylla*, *E. hypericifolia*,
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 of the
prints. It will, necessarily, be
incomplete - being the fruit of only 2
seasons.

Yours very respectfully,

W. Clinton.

I am sorry about the *P. tinctoria*. 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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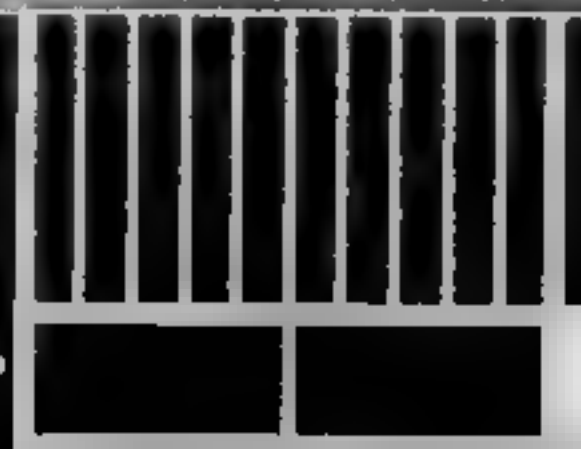
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New York 18th

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,} remarking that this (the
enclosed) though it resembled the *Pennsylvan-*
icum could hardly be it. 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 Polygynaceous 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 ranged the State in searching for it only for 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^d 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 humbly 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 monogynous & the still larger dioecious forms of *Sagittaria variabilis*:" but can only say that I collected & have 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 3^d 1864

Asy same day Buffalo, Aug. 31, 1864.

My dear Sir

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

Your friend & serv^t

L. W. Chittenden.

To Geo. Engelmann.



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Rec^d 10 Sept
Aug 12 Sept.

Say. Clift
8 Callitris Angr.
Callitriche

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. Gironii*. but the flowers &
fruit were in masses, larger than
those of *compacta*. I mean them in any
spec^{ies} of *compacta* I have received.

Two years ago I found at Meadville,
Pa., a *Cuscuta* which, to my eye, had
not the aspect of *Gironii*: 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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variolata v. S. 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 ~~stellular~~
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,
And truly yours,

L. W. Chittenden.

Dr George Engelmann.



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Nov 1st
as old 5

Buffalo, Sept. 7, 1864.

My dear Sir:

I take pleasure in introducing to you Augustus R. Grote, Esq., the Entomological Lecturer of our Society, and a gentleman every way worthy of your esteem. Mr Grote 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 ^{of} specimens of species which you have named would possess especial value.

We are very desirous to have one or more exchanging correspondents 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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Recd^d Sept 28th

Buffalo, Sept. 25, 1864.

My dear Sir:

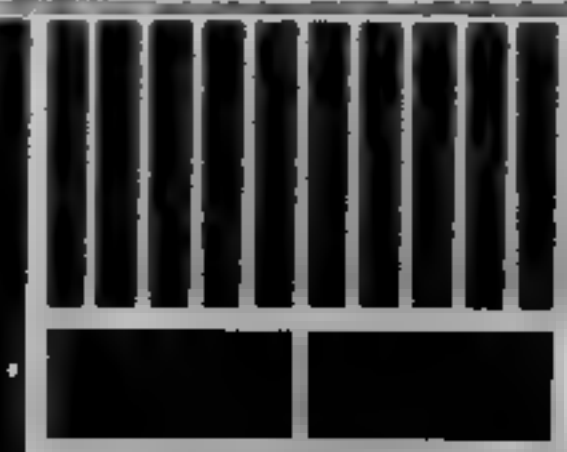
~~My~~ ~~very~~ ~~much~~ ~~before~~ yesterday, during the little of Cattaraugus County, in drains by the roadside fed by Springs. I noticed what, before the receipt of your last letter, I should have called *Callitriche verna*, little in flower & fruit. I ~~do~~ ~~not~~ ~~know~~, hoping it will reach you fresh: What shall I call it?

With it here & there I noticed a linear-leaved *Callitriche*, which I supposed might be *Antennalis*, until I noticed that it grew to the surface. ~~The~~ 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 enclose some of it. What shall I say of it?

Very Respectfully & Truly yours

G. W. Whitcomb.

Dr. George Engelmann.



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Rec^d Oct 5th
the same day

Ruffalo Oct. 11 1864.

My dear Sir:

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

Mr David F. Day of this place,
after I had given him spec^{im} of
the cut^{tle} 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 bitant located on
the west (New York) side of Lake
Champlain. Perhaps by voyage
I can find one on the Vermont



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notes that it is far beyond any ordinary reach.

I inclose herewith a *Cuscuta* & label - also labels of *Gray* *Muntica* *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 Salinas, 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.

My's major. All

in the (brackish?) effluent
of Onondaga Lake, a few rods
from the Lake at Lewisport,
Onondaga Co. N.Y.

Dr. Geo. Engelmann

Lator



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Rec^d Oct 15th
Ans Oct 22[']

Najas major

Buffalo, Oct. 15, 1864.

My dear Sir:

I am glad that you found
time to put up some plants for me, &
long to receive them. I wish I could
do something for you in return. Let
my letter, please do not consider your-
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 in changing the papers, I found
the fruit, & thought it a Najas.) It
is very pleasant to me to believe that
I have thought in so humble a way,
and something for botany. In re-
ceiving your information that the
plant was new to N. America, I
felt that I ought to acquire more



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information touching its station, & secured
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 narrow 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 ~~an~~ culvert, & then runs about
1/4 mile into the Lake. And the
stream, between the culvert & the Lake,
on its lower (south) side, I first
found the *Navis* eggs. Below (north of)
the stream, and three very shallow (=
the ponds or pools, in the beach,
apparently produced by the water
coming from the canal) are

This morning I began at Salina
& walked ^{down} the beach to the Creek,
here & there I found fragments of
the *Navis* (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 noticed in great abundance
cast up ^{to} the edge of the beach. It
does not look like an *Ammonia* egg.

Chama foetida



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 paper
of the Villiersia - & I collected some
in a bit of newspaper - & dried it.

In the ~~creek~~ between the Canal &
Lake, I found some more good
specimens of the same - & 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
slightly brackish. The Lake is
a fresh water one - though, when I
had, I was told, by road, 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 those common to
the prairie, but a great many of their
species. In returning, I explored
the stream. From Salina we
went way up, towards Syracuse
& did not find the stream. 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*, *Leptochloa 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 5 (think, sent a very miniature
specimen) is *Chenopodium suberum*
(the leaves are thick & apparently fleshy,
but ~~from~~ in drying, seem to disintegrate
and stain the paper. (See enclosure))

I ought to add that *Scirpus arifolius*
is very common in these
marshes.

Excuse all this detail. Mr.
Lieber sent, though very tired,
a very interesting paper
with the same title.

W. Lieber.

Dr. George Engelmann.

The paper package of *Chenopodium* 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 enclosed
Callitriche. It was wholly submerged,
and there was very little of it.

Very respectfully
Yours - though benumbed -

G. M. 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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Second paragraph of handwritten text, continuing the list or description.

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Third paragraph of handwritten text, located at the bottom of the page.



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
W. C. C. C.

Dr. George Engelmann.

W. C. C. C.



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12	24 Aug Expt.	5	4
10			
7	several in Sept	2	2
11	2 ads. in Sept		
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 seeds	2
68	- off	-

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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* specimens - 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 correspondents,
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. Why & why, 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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Rec^d 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.

Wm. Burt. Eng., 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 a theory once
started, too often leads to the perversion
of facts.

Yours most respectfully,
G. M. Johnston.

G. M. Johnston.

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Dr. George Engelmann.



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

I have had so many bottles put
for the purpose of space, that it is
possible I have enclosed bottles
which will not be used. I will
send you a quantity of all the specimens for
analysis required about 52

It will give you a pleasure to
send you the things I may
have a quantity of.

About a fortnight ago, a
party of men found it in
undergrowth near about 4 miles
East of Rochester, a *Superna* growing
in great profusion. I enclosed
herewith a number of *Superna*
specimens for analysis.

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



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sometimes aculeate. 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.

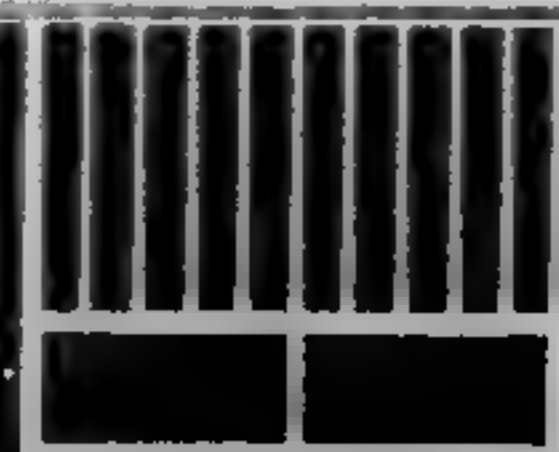
Very truly respectfully yours

H. W. Chittenden.

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Dr. George Engelmann.

I find, in the water of our river -
a Butorichuspermum - and
a Spongia. The latter in long, matted,
slender masses, no leaves.



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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* *Gray*, *Ann. Bot. Fr.*
XI. 101. (1864)

scarcely distinct from *S. echinospora*



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1881.21. Sept. 12. 1882.

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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
punting up the masses 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. Christian,

Dr. George Engelmann



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Recd Nov 9th

Ans Nov 10th I have been thinking of you
and your paper it is a great pleasure to see
I have been in the paper Nov 6, 1865.

My dear Sir: I have been thinking of you
and your paper. My intention as a good
friend calls me passing for collecting
plants. I say this for you to be
almost wholly to the mosses, and
according to Mr. Lesperance, I
have had good success. I did
not like to compare you with
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 for the
Islets, we would come a
storm, driving 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-
lina, 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 dear
friend Bebb, and now you
must undertake the genus and
unsettle them! Here is the list of
my Buffalo *Quercus*, according to
Mr Bebb:-

Q. effusus, L.

Balticus, Willd.

paradoxus, E. Mey. (Ex Gray.)

acuminatus, Michx.

articulatus (= *Q. lamprocarpus*.)

" var. *pelocarpus*, 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,

W. W. Johnston.

Dr. George Engelmann.



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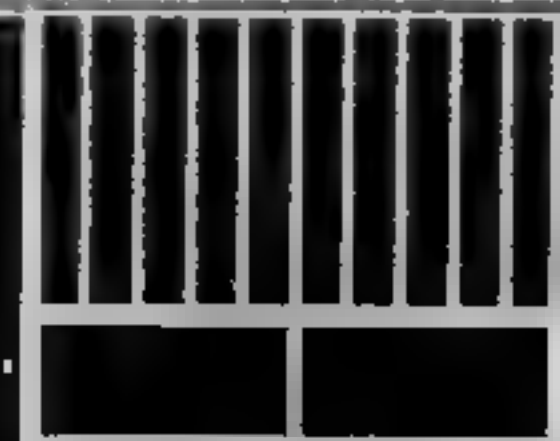
Recd Nov 14th
Ans Nov 21st

Russell, Nov. 11, 1865.

My dear Sir:

My heart is broken. I
expected to receive a Trichomanes
from Ohio. I 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 Saccata.

We have had a bitterly cold &
windy time; but the sun shone
not smilingly this morning &
so I took a boat & went down
the river. The water was icy &
there was wind enough to baffle
me in his attempts to grab the
little parcel out of the water &
the water itself was icy. The
miserable result of my efforts
return I send to you. Arriving



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1850
No. 100

Handwritten header text, possibly a name or title.

Number: 100

Main body of handwritten text, appearing to be a list or detailed notes.

Second main body of handwritten text, continuing the list or notes.



am one I think one winter, & perhaps,
two or three spring ones - knowing the
evidence as 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. Colvinton.

Dr George Engelmann -



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Nov - 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 abun-
dant, where your specimens
came from, it grows in a gravelly
soil interspersed with & covered by



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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~~ ^{your} features
a little.

Niagara River ~~at level of Shawberry I.~~

The above admirable sketch explains
itself sufficiently: But, to obviate all
hesitancy, 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 ins. to 1° deep. I first
noticed that little plant, in 1863 or
1864, growing on & confined to that.



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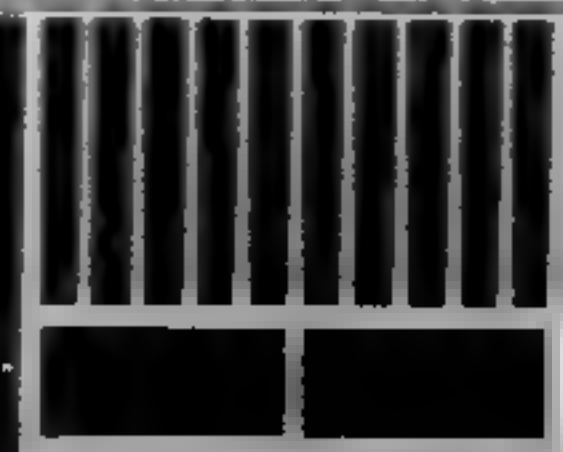
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Rec^d Nov 29 1865
No 4

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
endogens - 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



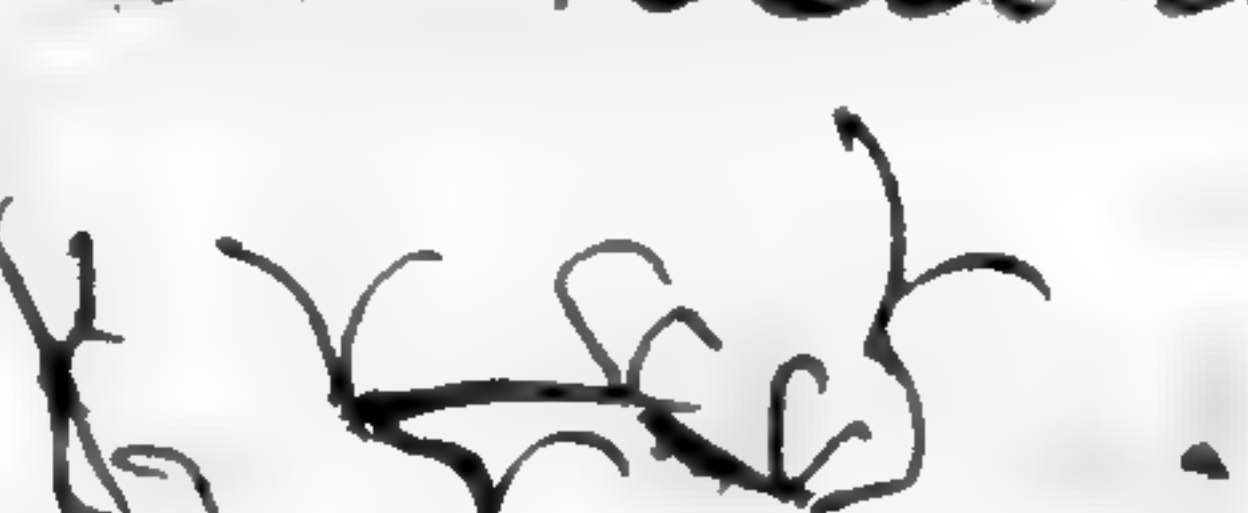
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of the Hudson River near Albany - I
if my memory is not wholly at fault,
that is not repentant. I am aware
that at least some species of Sagittaria
throw out tubers (or buds) bearing roots -
them - but I never saw one
creeping like this 

A few days ago I rec^d some of this (?)
Bain'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, Bain, is, so far
as I know, the only one we have in
this vicinity. I have not perfect faith



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Nov 27 1865

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

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. Johnston.

Dr. George Engelmann.



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Rec^d Dec 26 1865

Jan 24

Buffalo, Dec. 23. 1865.

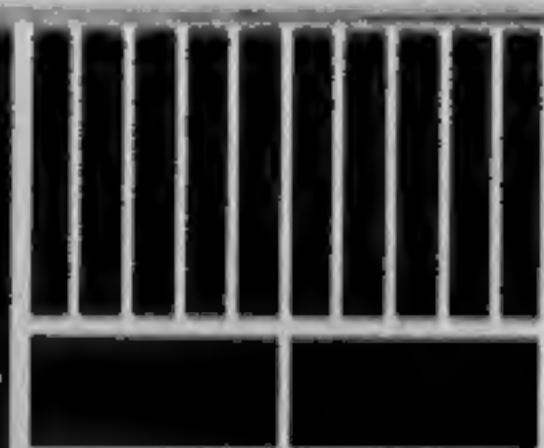
My dear Sir:

I write, mainly, to wish you a Merry Christmas, and a most happy New Year. May you, in 1866, settle Nymphon, Nymphaea, 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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fine case, I am busy in arranging
my collection, in 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 *Quercus*.

Most truly respectful
Dr. Gussonegmann. W. C. C. C.



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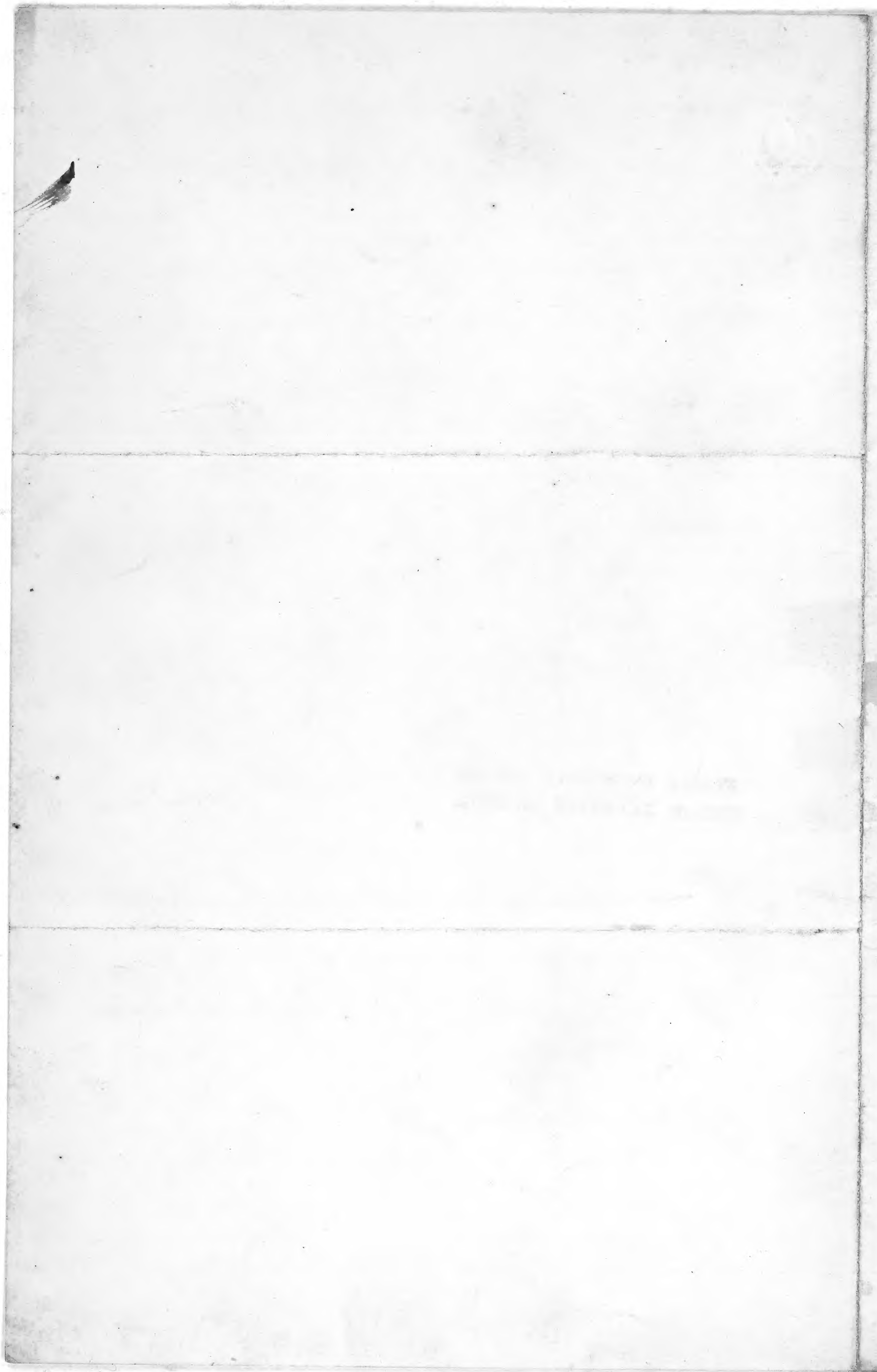
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