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 a 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 Lockport, not only promises his cordial cooperation, but furnishes ~~a few~~ 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 deprived 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. I would be particularly pleased to see my old friend, Dr. Lewis C. Beck's Trillium. I remember his showing me the Trilliums 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 signal service to us.

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In the meantime you will do us a favor, if you desire any specimens in any branch of Nat. History, which you know or suppose this vicinity produces, or believe we can obtain, by sending us a list.

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

Very respectfully,
Your dev.t serv.t

G. W. Clinton.

Dr Geo. Engelmann.

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ENGELMANN PAPERS

Rec'd Febr 2d
Ans Febr 4

Buffalo, Jan. 30, 1864.

Dear Sir:

Prof. Gray has, two or three times, advised me to send to you, for determination, specimens 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 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 de-

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termination of one species.

I have not been able to identify your Sparganium eurycarpum. Our ~~Spa~~ 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 mere 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 none in flower, and, I believe, one 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 sight. 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 ponds made in making the railroad, at Caldwalter, between this place & Rochester. It may be your S. calycinum, but I doubt it. Still later, when the flowers & fruit 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 large form of the S. heterophyllum with the smaller submerged stalkerly 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~~ Specs of all these of the Sparganium & Potamogetons, and of some other things which I do not now recall, I could

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 Cuscuta epilinum has come in organic with the flax, 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 any 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 you had would be duly prized, by

Yours very respectfully

G. W. Clinton -

i.e. Geo. W. Clinton.

Dr. Geo. Engelmann.

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Rec'd Febr 18th
Ans March 6

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 brother saw. I also put in (the number follows the Spang. in my 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 heard labelled Naias to be a Naias

The small Callitriche grows respectable on mud. and is, perhaps, C. verna, v. terrestris.

Two or three of the plants included are of the Genus we 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 Genus in 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 aid the work of collecting material for you.

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

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long upon hand — such as Euphorbia glyptosperma. The Euphorbias are few — only E. lathyris, (nat.) E. chaetocephala, E. platyphylla, E. hypericifolia, E. maculata, & E. polygonifolia.

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

Yours very respectfully,

G. W. Clinton.

I am sorry about the Stoningtons. 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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Recd March 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 included. 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 included) although it resembled the Pennsylvanicum could hardly be it. He answered — "P. Pennsylvanicum". I replied, in substance, that he had disappointed me — that I had been reading, lately, Boeckmann's descn of the nodosum — & had half expected that he would recognize this as the nodosum & the incarnatum as a species. He wrote (on the 11th) rec'd the 14th — "Do not even 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. Vide Engelmann. By the way, send pieces of the doubtful one to Dr Engelmann, & 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 Penns.m – and that this fellow, if Penn.m, is not an ordinary form.

Very Respectfully yours

S. W. Clinton.

Dr Geo. Engelmann.

I have a strong suspicion that Dr Torrey, in his M. G. Flora, has urged the Estate in ascribing 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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Ans March 26th
Ans Sept 3d

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 humanely devoted to Science: I had supposed that answering such queries as mine would be matter of mere relaxation.

In truth, last year & the year before, I was so pressed with the labor of collecting, and, I may add, enjoyed the fields & plants so much, that I had little time, & I fear me little desire for research. ~~The~~ 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 monocarpian & the still larger diverging forms of Sagittaria variabilis:" but can only say that I collected where a very large & broad leaved form. It did seem to me that there was no end to the forms of our common Sagittarias, 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 simplicipilia.

Long ago, probably in 1827, I crossed from Albany to Bath, and there, to my great 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 hideous dock – and I was astonished 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,

G. W. Clinton.

Dr George Engelmann.

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Rec'd Sept 3rd 1864
Ans same day

Buffalo, Aug. 31, 1864.

My dear Sir

The enclosed lenticula is from Youngstown. There are differences of opinion among us touching it. Please tell me which it is and oblige

Your friend & servt

G. W. Clinton.

Dr Geo. Engelmann.

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Rec'd 10 Sept
Ans 12 Sept.

Sarp. Clint
8 Collitrots Ang.
Call autumnalis

Buffalo, Sept. 7, 1864.

My dear Sir:

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

Yesterday I found what I cent distinguish from C. Gronovii - but the flowers & fruit were in masses, longer than those of compacta. I mean those in any specimen 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 gave 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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variabilis v. S. heterophylla. So far as I can now recall the observations of last year, the immersed, stellate, phyllodia-like leaves were confined to S. heterophylla. The small ~~[illegible]~~ leaves floating on long, slender petioles, I have not been able to find. Perhaps they are produced only in the autumn.

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

Believe me,

With great respect,

Ever truly yours,

G. W. Clinton

Dr Geo. Engelmann.

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Rec'd Oct 1st
Ans Oct 5th

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 ~~pl~~ specimens of species which you have named would possess especial value.

We are very desirous to have more 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 Gates - such as he can probably call upon during his tour; and also, when convenient to write to me on the subject.

Most respectfully & truly yours,

G. W. Clinton.

Dr George Engelmann.

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Recd Sept 28

Buffalo, Sept. 25, 1864.

My dear Sir:

~~Yesterday~~ being before yesterday, running the bluffs of Cattaraugus County, in driving by the road side fed by Springs, I noticed what, before the receipt of your last letter, I should have called Callitriche vernus, bitter in flavor of fruit. I divide some, hoping it will reach you fresh. What shall I call it?

With it, here & there I noticed a brown-leaved Callitriche, which I supposed might be Autumnalis, until I noticed that it grew to the surface & presented there a little star, like vernus. I then found it not reaching the surface & also in two or three instances, having upper leaves like those of vernus. I also inclose some of it. What shall I say of it?

Very Respy & truly yours

G. W. Clinton.

Dr Geo Engelmann.

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Rec'd Oct 5th
Ans same day

Ruffsville, Oct. 1, 1864.

My dear Sir:

Very many thanks for your letter just rec'd. I commence sending you the Gallitzinches, because you, in looking over the ~~[illegible]~~ reserved specimens, I noticed, to my great horror, that what I had marked Gallitzinche was in nothing but the Grandiflora.

Mr David F. Day of this place, after I had given him specs of Lecanth from Alexandria Bay, told me that he had found it here. But he has no specs 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 Whyo I can find more on the Vermont

which I do so far beyond any
thing reach.

I inclose herewith a Lunaria
& label - also labels of the
Mentiella. Gray, and of a
water plant, which I should
in another packet. I also inclose
a few seeds of the Gly, 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 Sulina, what I suppose to
be Septochloa fasciculatus &
Panicum pubiflorum - 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,

G. W. Clinton.

Miss major Alles

in the (Onkith?) affluent of Onondaga Lake, a few rods from the Lake at Liverpool, Onondaga Co NY

Dr Geo. Engelmann

Cat. 71

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Rec'd Octob 15th
Ans Oct 22

Najas major

Buffalo, Oct. 11, 1864.

My dear Sir:

I am glad that you found time to put up some plants for me, & long to receive them. I think I could do something for you in return. But no matter. Please do not consider yourself 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 in the fire.

I read your touching Marion Major yesterday morning. (The day after sending it, I in changing the papers, I found the fruit, & thought it a Naiad.) It is very pleasant to me to believe that I have thought in so humble a way, due something for botany. Oh in asking upon the information that the plant was new to N. American, I felt that I might to acquire more

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information touching the stations, & secure better speed for myself and for Gray. So I went to Syracuse last night. & today explored from 7 A.M. to 1 P.M. & then then had to make for the R. Road station to be in to get home this evening.

Syracuse, Salina and Liverpool are all on the easterly side of the Onondaga Lake. A long tow plain, ~~gently~~ often marshy, 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 Oswego Canal, which passes through Salina, and at the foot of the hill on which Liverpool stands. At Liverpool, there is a low flat, covered

into Salt marsh which comes down to the Canal. Through this flat runs a small stream, which passes under the Canal by a culvert, & then runs about 14-16 yards into the Lake. In the stream, between the culvert & the Lake, on its Lower (north) side, I first found the Chara rugosa. Below (north of) the stream, and there very shallow lit= the pools or pools, in the beach, apparently produced by the water coming from the Canal.

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

Chara fragilis

and I would like to know its nature.
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 bottle of newspaper - & inclose it.
In the Chicago between the Canal &
Lake, I found some more specimens
growing specimens of the Naiadea -
On the beach below the Creek, I
found fragments of it.
In the Humber, or lower part, I
found it growing abundantly - but,
the water being shallow, the plant
is much lower down in the stream &
it is also much lighter colored.
To my taste, the water in the port,
on the edge of the Lake, is ~~too~~
slightly brackish. The Lake is
a fresh water one - though, when a
lad, I was told, or read, that a
little 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 finds, lakes & great rivers of this region. In returning, I ascended the Stream 8 or 9 miles & found very up towards Syracuse & did not find the Naiads. I did not, however, go to the beach.

As to the plants of those marshes & the peculiarly saline ones, so far as I can now recall them, are Salicornia herbacea, Ranunculus cymbalaria, Triglochin maritimum. I believe I wrote you that I had found in them, Leptochloa fasciculata and Panicum pulifarum (the sheaths of which are, sometimes, purple.) Chenopodium glaucum is very abundant. But the most abundant plant is Atriplex hastata. I only find what I am inclined (on the suggestion of Gray, to whom I last

August I think, sent a very minute specimen) in Chenopodium album. (The leaves are I think very fleshy, but [illegible], in drying, seem to disorganize and stain the paper. I forget which.)

I ought to add that scripta amentum is very common in these numbers.

Excuse all this detail. My letter was long, though very tired, & not strictly grammatical.

Yours truly

G. W. Letchworth.

Dr Geo. Engelmann.

The green powder is Arsenic, but either dissolved or sunk into the paper. Still, I inclose some of the paper.

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Rec'd Oct. 22
Ans same day

Buffalo Oct. 17, 1864.

My dear Sir

The same day, or the day after, I mailed you the last water plant from near Salina or Leavenworth. I examined it, and determined that it was Zannichellia palustris 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 respy & truly yours - though benumbed -

G. W. Clinton.

Mr Willis Flint
Chum Point (Virginia)
Collin [illegible]
[illegible]

Dr George Engelmann.
The other thing - a little Euphorbia - is from the same ditch.

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Recd Nov 14
Ans Nov 13

Buffalo, Nov. 5, 1864 –
5½ 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 genuine, but expresses surprise that it should be in full bloom, not only all summer but "till frost bound by the ice." His letter is dated Oct. 28, & mentions it as thoroughly established.

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

Yours very truly & respy
G. W. Clinton.

Dr Geo. Engelmann.

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12 — 24 Aug Expl. — 5 4
6
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7 — several ½ acks. in Sept — 2 2
11
6
7 — Oct 20. 21. 25 31 — 4 Cons — 4 4
9 — Nov 2d Expl. — 1 1

~~Nov. 2d Exam~~ — Nov 9 Night — 5 4

68 — 6 single — 6
15 — 1 Explorer — 5
83 — 1 Expl. — 2
5 with Pl — 8
1 Night — 5
Total — 2
68 — Dwellings — —

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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 Callitriches for figures, wrote me thus, in ~~August~~ a letter: "I am sorry to be unable to furnish you any Callitriches. I have never met with any here, though I have seen them abundant in others, especially at Cape Cod. I have made a special search, but with no success."

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

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

Very truly & respectfully

G. W. Clinton.

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. Strength great has been the need thereof. In the early light of this morning, I have forced myself to look for health & nut. 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. Lyte. After a long delay, they reached me, and all were 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 & respy

G. W. Clinton.

Dr Geo. Engelmann.

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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 specn of Ballitricha verna I sent you, are from the Province of New Brunswick.

Wm Brott, Esq., of Boston, to whom I had written touching the ballitricha of Cape Cod, &c., writes: "Some years ago, I collected ballitricha, 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 Engelmann. 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 ~~heading~~ 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 studying 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 very truly,

G. W. Clinton.

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Dr George Engelmann.

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Rec'd Aug 29th
Ans Sept 15

Buffalo. Aug. 26. 1865.

My dear Friend

As to I have not done much in Botany this season. An excursion to Bergen, Genesee County, N.Y. has yielded me the following, in this section rare things—

Scirpus caespitosus
Eleocharis rostellata
Scleria verticillata
Rhynchospora capillacea
Tofieldia glutinosa
Solidago Ohioensis
Solidago Houghtonii
Myrica cerifera
Juniperus Sabina & Lobelia Kalmii.

Among the residue of Carices, I am able to identify positively C. Sartwellii
C. stellulata, v. sterilis?
C. [illegible]
C. gynocrates.

I find Superior communis in
the vicinity, in the City.

I have had so many battles
for the past season, that it is
impossible to know exactly what
will suit the deed. I without
the Bond, you can supply the
Mains magnificent deed 52
It will give me pleasure to
send you something I may
have approved time.

Where infringing tracts, a
party owns found in
Immediate Berry, about 4 miles
East of Rochester, a Mr. Gray
in great profusion. I enclose
herewith an sample. Please
name them for me.

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

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sometimes encounter. When fresh, the leaves are harsh, and they have a rigidly prickly feeling so that one of the party, nicknamed, called it the water-thistle.

Very truly respectfully yours

H. W. Johnson.

Dr George Engelmann.

I find, in the water of our rivers — the Batrachospermum — and the Spirogyra — the latter in long, matted, slender masses, on leaves.

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Buffalo, Sept. 13. 1865.

My dear Sir:

Prof. Gray seems to think that specimens of the Sedges of the Niagara would be acceptable to you. So I inclose them.

Yours very truly

W. W. Christy

Dr George Engelmann,

L. Carex Davisii Gressin Jour. Lin. Bot. Fr. XI. 101. (1864) is clearly distinct from L. echinospora

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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 Gravter I can spare, hoping to do better by & by: But I am so busy in hunting up the matters that I have very little time for any thing. As to what the little beast is, I don't know. The botanist regarded it as G. municata, Darw. You call it G. Brauni, Bureau, and think it hardly distinguishable from G. echinosperma. Now it is suggested that it is the same that Porter & Leidy brought from the Sault, & that it is Gray's Bureau has decided to be the G. lacustris var. Well! I believe that it is Gravter. Go to Nature maybe.

I am compelled to say — by & by.

Very respectfully yours.

J. W. Christen.

Dr Geo Engelmann

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Rec'd Nov. 9th
Ans Nov. 10

Rochester Nov. 6th 1865.

My dear Sir:

My intimate (as a good friend calls any person for a Meeting) Plants & Pl. Ins. I intended almost entirely to the mosses, and, according to W. Lesquereux, I have had good success. I did not like to unpack your Acct of Oct. 4. without sending you living plants of the Niagara River Gyrotes; But the mosses pulled me about everywhere, and, when I made up my mind, as I did several times, to start down the river, in the minute for the Gyrotes, up would come a storm, driving the water, making the detection of the little beast impossible. If he deserves his name you shall have him

soon. I suppose all I have to do, after catching, is to wrap him in damp moss and mail him. You shall have top, Bitter maritimum from Sa=bine, and anything else you may have a fancy for and I have or can get.

Now to Quercus, why did you take it up? I had mine all nicely settled by my epistle friend Bebb, and now (with) must undertake the genus and unsettle them! Here is the list of my Buffalo Quercus, according to Mr Bebb:—

Q. effusus, L.
Baltieus, Willd.
prinoides, E. Mey. (Ex Gray.)
acuminatus, Mey.
articulatus (= Q. lamprocarpus.)
" var. pelocarpus, Gray.

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

tenuis, Willd.
Aufonius, L.
? A paterinus, Kuntze. (This Mr B. now seems inclined to abandon, and advises me to label the poor fellow thus:—

G. ——? (= G. incunitus, Ell!)
How shall I fill that awful blank?

In these I may add G. bulbosus Sulinus, Mx. (I found it three years before last.)

Very truly & respectfully,
W. Welington.

Dr George Engelmann.

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Recd Nov 14th
Ans Nov 21st

Buffalo Nov. 11 1865.

My dear Sir:

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

We have had a bitterly cold & windy time; but the sun shone out 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 quench the little rascal out of the water, & the water itself was milky. The miserable results of my exploring return I send to you. Among

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am one of Hooker's or Gunter's, I perhaps, have a true spring one — having the residue as a plant worthy of cultivation — Ranunculus septentrionalis, the small form — which grows freely in wonderful shallow water, on wet or on the wet banks.

Yours most respectfully,

G. W. Letchford.

Dr Geo Engelmann —

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Rec'd Nov 29/4
Ans Dec 1/4

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 to covered by

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the muddy sediment of the shore. Strawberry Island, on the western side of which the station is, is about five miles from Allen Street, Buffalo; & I may be able to watch this little nameless rascal next Summer.

Be to the other plant there is something strange about it: and here I must exercise my powers a little.

a sketch of Strawberry I. Niagara River

The above admirable sketch explains itself sufficiently: But, to dissipate all hesitancy, I'll tell you, that the plants so clearly depicted are O'Bragniter, that the dark space marked a a 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. The outer edge of the edging the land falls abruptly into water 3 in. to 1 deg. I first noticed that little plant in 1863 or 1864, growing on & confined to that

Recd Nov 29 1865
Ans ~~Dec~~ 4

edging. I watched it, expecting flowers to grow, & found none. I concluded that it was Ranunculus reptans. I 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 & fruit. I sent some to Gray, who pronounced it Rana's flammula var 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 extending into the water to the same depth as the Isoetes. 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

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

A few days ago I rec'd some of this (?) Rare'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 confound two distinct plants growing together. But I do not think so.

Be to Duncan - if you will name them for me, I'll send you a set of those of this vicinity.

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

Aur. Nov 29 1865

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

In this vicinity we have, so far as I know, only one Nuphar; and, having always supposed it to be the Advenum, 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. And now for the law!

Yours truly,

W. W. Clinton.

Dr George Engelmann.

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Rec'd Dec 26 1865
Ans June 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, Nymphaea, Yuncus, & do few 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 - (rendered in June, 1865.) is just out of the printer's hands. It contains a very interesting local Cat. by Mr Paine. I mail you a copy.

Our society having provided a

fine case. I am busy in arranging my collections, as preliminary to setting up the Herbarium. That Herbarium, ~~which~~ will consist almost entirely of my own collections. N. of plants received by me from correspondents - indigesta moles. 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 has always pleased me. But, until the first primary separation and distribution 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 Cynanchum.

Most truly & respectfully yours

G. W. Clinton.

Dr. George Engelmann -

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