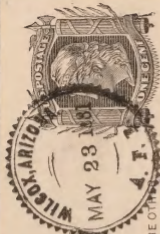


A / Regret to say

That My friends  
Have sent to ~~me~~  
to join them  
in Tombstone  
in a few days  
so will not  
Be able to  
see you this  
season would  
at any other  
time

Yours &c Wm Gallegly

**POSTAL CARD,**



WRITE THE ADDRESS ON THIS SIDE - THE MESSAGE ON THE OTHER

Prof. G. G. Lemmon,  
Tucson,  
Oregon

K

Miami Fla.

May 14. 1877.

Geo. E. Savenport, Esq,  
Dear Sir,

Your letter

of Feb. 27, directed to Columbia Pa. reached me yesterday. At present I cannot promise to enter into exchange, I am engaged in the preparation of 12 sets of botanical specimens for some of my friends and in July or August hope to complete them if after that I have duplicate ferns I shall be pleased to exchange with you. Your catalogue shows such an extensive collection of our ferns that I fear few are left to be added.

*Ophioglossum bulbosum* I found sparingly a year ago at Palatka, Fla. growing in low damp pine land. - soil is sandy but compact, and upon which grow a class of plants which like to be near water but are not seen on the drier sandy soil in the upland pine woods.

This year I have found so far and mostly

in a fine state

- *Acrostichum aureum*, L.
- *Polypodium ineanum*, Swz.
- " *Phyllitidis*, L.
- " *aureum*, L.
- *Pteris longifolia*, L.
- *Vittaria lincata*, Swz.
- *Plechum serrulatum*, Michx.
- *Asplenium dentatum*, L.
- *Aspidium paleis*, Swz.
- " *unitum*
- *Neprolepis exaltata*, Schott.
- *Anemia adiantifolia*, Swz.

\_\_\_\_\_ A fern not yet determined and not described in Chapm's "Southern Flora" possibly may be new to our flora.

If you could send me a list of such fine specimens as you may have for exchange and <sup>also such as you might wish in return</sup> directed to Tampa, Fla soon I could enter into more definite arrangements - I will quit this coast soon for the Gulf coast

Yours, Very truly  
A.P. Garber

K

Manatee, Fla. March 12<sup>th</sup> 75.

Mr Deane Jort.

Dear Sir, —

I have just finished my sets of general plants of S. Fla., and to-day lay aside for you the following specimens of Ferns according to promise,

<i>Aspidium unicolor</i> , R. Br.	1 fertile 1 sterile
<i>Nephrolepis exaltata</i> , Schrott.	several sterile & fertile fronds.
<i>Aspidium floridanum</i> , H. K.	1 sterile & 1 fertile frond.
<i>Aspidium patens</i> , Sw. G.	" "
<i>Asplenium serratum</i> , L.	2 fertile fronds
<i>Asplenium dentatum</i> , L.	1 or 2 small tufts, fertile.
<i>Blechnum serrulatum</i> , Michx.	2 fertile & 2 sterile fronds.
<i>Vittaria linearis</i> , Sw. G.	2 small tufts, fronds 2 ft. long.
<i>Pteris longifolia</i> , L.	2 fertile fronds.
<i>Polypodium aureum</i> , L.	2 fronds, fertile
do <i>Phyllitidis</i> , L.	about 6 fronds
<i>Anemia adiantifolia</i> , Sw. G.	2 fertile & sterile
<i>Ophioglossum nudicaule</i> , L. f.	about 6 stalks 1/2-2 inch high
<i>Acrostichum aureum</i> , L.	1 sterile & fertile

I also find here *Ophioglossum* and perhaps could secure more specimens — not all my specimens in general sets.

The specimens of all the above are perhaps as good as could be desired except *Acrostichum* and this is hard to dry and even preserve in this climate when dried. Its habit invariably is borders of saline marshes or streams, and like such plants in the dried state have greater tendency to absorb moisture in damp weather — perhaps due to salt deposits in their cellular structure. Allocated after several attempts I failed to get satisfactory specimens.

From your Catalogue I would mark as special desiderata

<i>Notholama dealbata</i> X	<i>Polypodium Californicum</i> X
" "	" <i>intermedium</i> X
" <i>Parryi</i> X	<i>Notholama Fendleri</i> X
" "	" <i>harveyana</i> X
<i>Pteris lanuginosa</i> X	<i>Lomaria spicata</i> X
and <i>Aspidium Clevelandii</i> Brauner	<i>Aspidium musitum</i> X
<i>Cheilanthes Clevelandii</i> X	" <i>floridense</i> X

In as much as I am out of binders  
board and cannot get any here I will be de-  
pendent upon you for it.

If you put up a specimen of each of  
them named as my desiderata - please take binders  
board two pieces 8 or 9 inches by 15 inches that I  
may use the same for return mail box - I could  
not pack in smaller boxes without doubling specimens  
which do not wish as it would spoil specimens.

I would also like to make one other request  
that you should send soon as I may decide  
to leave here <sup>in</sup> 5 or 6 weeks.

I have also laid out for you a curious  
sterile dwarf of *Pteris aquilina*, L, which I collect  
on rocks near swamps, 4-6 inches high.

Hoping to hear from you soon

I remain

Cordially Yours  
S. P. Garber,

H

Manatee, Apr. 9. 1876.

Mr Geo. E. Sargent,

Dear Sir,

I acknowledge now the arrival of the small parcel of Ferns. They were well done up but thoroughly wet as they dipped in water - I think the mail bag got wet as some of my news papers were so wet that I had to dry before I could read them. By repressing and drying however the specimens were restored without loss except perhaps a slight change in colour.

With Wotholmea delectata you send fine and very generous. Lepidium Nevadaense Paton, Platys Agrostoides var longicaule Hook. Wotholmea Parryi Eaton as well as Chelanthus viscidus Sargent good! were new to me. The last I was glad to get from its author and of course could not look for it elsewhere. With Polygodium Californicum & intermedium I think you are right - They appear to me as simple varieties of the same <sup>very</sup> species. The specimens were all fine and I was <sup>glad</sup> to get them.

I have done up a return parcel. The best I could, and will forward by next mail.

I rec<sup>d</sup> your box for living specimens (bulbs) of Ophio- glorum bulbosum Michx. and took a four mile walk in search of them but failed to discover even a trace. They are so very small and come up in Feb and March before the other plants among which they grow have made any growth. Now the ferns have "done and gone" as people say here and the ground is covered with Dicksonia repens Forst. var. and Luzaria Canadensis &c..

To your inquiry of my general sets - I value them at \$50. They contain 340 species but to meet deficiencies I get like them equivalent to 500. I have shipped 8 and 4 are among several were promised and very soon. but one is not taken perhaps several. I will likely remain south again over the summer but will not collect at least such long etc. I hope the small parcel will reach you safely and be satisfactory.

Very truly A. P. Barber.

- 3663 *P. falcatum* ✓ 1  
 6 *S. Scouleri*  
 7 *N. sinuata*  
 73 *N. ferruginea*  
 74 *N. candida* ✓ 3  
 75 *N. Borrigiana* X  
 79 *C. Wrightii*  
 80 " *aspera*  
 81 " *Alabamensis*  
 82 " *microphylla*  
 85 " *Sindheimeri*  
 90 " *argentea* ✓ Eu 9 R  
 97 *P. longimucronata* (Whitiana) ✓  
 3700 *P. flexuosa*  
 1 " *Pulchella*  
 4 *P. cretica*  
 6 *A. pilosum* X  
 9 *A. capillum Veneni*  
 19 *A. ebenoides* ✓ 7  
 24 *A. marinum* ✓ 6 Eu, P R  
 27 *A. septentrionale* ✓ Eu, 9 R  
 35 *P. albertis* ✓ 5  
 39 *A. Californicum* X  
 48 *A. argutum* ✓ 2  
 52 *A. Juglandifolium*  
 69 *A. Mexicanum*  
 75 *B. simplex* ✓ in letter  
 76 *B. boreale* ✓ 10 A. P. S.

I read of your wild water nuts and  
 Peach blossoms in Bellevue - well it is summer here  
 here then, now while I write 3 P.M. marks  
 82 P. blackberries are ripe - we have had them on the  
 table over a week - *Rubus tinctoris* - berry is  
 quite large 3/4 inch in diam, and fine - whiteberries  
 will be ripe in about two weeks,

*Asplenium serrulatum*, *A. dentatum*, *Pteris longifolia*  
*Dennisia adiantifolia* are from Laurel Co., and do  
 not grow here - my stock is exhausted - *Cephaeloclema*  
*midcandle* is from Lery Co., my stock of this is exhausted  
 altho I consumed 4 trays in collecting it - being so very  
 small and difficult to see - Hunting it seemed somewhat  
 like searching for diamonds in Australia,

*Rhectum*, *Hippolepis* and *Polypodium Phyllitis* grow  
 here the last <sup>two</sup> very sparingly however and the first  
 is not in collecting season until later in the summer,

Your request other desiderata I will give them but  
 I think I am puzzled and don't know whether  
 I could make return for anything else you  
 would send, according to Mann's Catalogue the  
 following are desiderata 3663-66-72-73-74-75-  
 77-80-81-82-85-90-97-3700-1-4-8-9-19 this  
 I would especially like to see as it was originally found  
 in my state and described by Robt. R. Scott - a florist  
 formerly in New Garden - came to this country with  
 Thos. Michaux and Sanders of Washington - finally  
 became insane and was in my charge in the  
 State insane asylum for nearly 4 yrs, He was yet  
 living when I left the asylum about 1875,

3724-27-35-39-48-62-69-75-76 & *C. helenatum* -  
 But Prof Eaton may send me some of them,  
 You also make inquiry for *Betula* - I saw  
 a few stalks only of *B. lanatum*, var *oblongum* further  
 north, and knewed only one specimen which I  
 think I packed in a box with my set, and  
 could not well get it without undoing the box,

A. P. S.



K ✓ 9 Travesty Place  
New York May 12/90

My dear Sir

Mr. Leggett has  
asked me to reply to  
yr. favor of the 10<sup>th</sup> inst. in  
regard to plate for Bulletin.

May I ask if ~~the~~ <sup>the</sup> ~~Dr.~~  
Favor's drawing is a pen &  
ink sketch, & whether the  
shading is done in lines?  
If so, I can have the  
drawing photo-engraved  
here for, say \$3.00, and the  
cut can then be printed  
~~like~~ <sup>like</sup> a wood-cut. This is the  
way in which the three  
plates that we have had  
thus far were done. This

too, is the cheapest & most  
satisfactory mode of illustration  
that I know of. The photo-  
engraving is of course a  
perfect facsimile of the  
original drawing. I am  
engaged in journalism &  
can get these things done  
quite cheaply. I am very  
anxious to secure that  
plate of yours, but the  
price you mention for  
lithographing it, is well placed  
it beyond our reach, as  
we dare not exceed, in  
our expenditures, the amount  
of income we derive from  
the Bulletin. If the  
suggestion that I have  
made to you meets your

approval, & the drawing is one that  
can be photo-engraved, will it be to long  
at noon, and will have ~~it~~ the cut made

Respt. Sir,

W. R. Edwards.

W. W. R. R. R.

May 15, 1871

Dear Sir

I wrote you in  
last week on Wednesday,  
as I have not heard  
from you, so that I  
may have misdirected my  
letter. Thinking that I may  
have done so, I may  
state that I wrote you  
of the drawing made for  
you by Mr. T. H. D. was  
a pen and ink sketch, &  
made in lines, I could  
get it photographed here  
or as to print it in the  
Bulletin, as we have  
already printed ~~it~~ our  
three new plates. As tempus  
ingit, I wish you would  
let me know, how the matter

stands, If the drawing is  
such that it can only  
be lithographed, I will  
see if I can make  
an arrangement to have it  
done. I am very anxious  
to secure all such  
illustrations.

Respectfully,  
H. R. Ginn.

7, Naval Place  
Fenwick, Gray & Co

Dear Sir

Your favor is at hand.  
Your proposition is accepted,  
& I will send you the  
necessary balance in a  
day or two. Please put the  
drawing in the lithographer's  
hands without delay. As the  
"Bulletin" is in type, please  
send me, as soon as you  
can, the descriptive matter  
of the plate, so that I can  
have it inserted under your  
article before the Bulletin  
is made up into pages. I  
enclose a sample of one  
of our plates. I wish, if  
possible, you would have  
the lettering done to  
conform with that on the

plate, in the case of  
uniformity, when the  
lithographs are ready  
send to me direct, as I  
live within a flock of  
the winter - Dr. C.  
resides about 3 miles  
distant.

Very truly in haste  
H. R. Sweet

P.S. Your plate will  
best be winter - "Plate IV".

9 Barab Place ✓  
Boston May 18<sup>th</sup>

My dear Sir

Your letter seems to reach on the way, I am just in receipt of yours of the 17<sup>th</sup>, & doubtless mine of yesterday is but being perused by you. In answer to your query on the envelope, I would say that you had better let us have at least 500 Copies - or more if they don't cost any more, as it may be necessary at some future time to republish this number. The \$9. balance necessary to make up the amount, I will send you as soon as I can get it

will give us some more good things. An  
to in England to get the right kind of  
Bristol every month in fine tucks, paper.  
The last time you have a plate for us  
I hope we had not had a "ridel" as  
we have not about this. Please send your  
explaining notes of plate as we, in the  
Illustration is all in type, & the revised copy  
has been corrected.

Yours truly,  
Wm. D. Howland

Chance to go to the Post  
Office, which is at some  
little distance from me.

Perhaps I ought to make  
an explanation about the  
status of the Bulletin.  
Up to the present year,  
although it was "the organ  
of the Tany Club", it was  
the private property of Dr.  
Saggett. Now the Club  
was it. Having increased  
the number of pages, &  
covered it, the expense of  
publication is greatly  
increased, & we wish to be  
careful not to go beyond  
the Bulletin fund in our  
expenditures. If our friends  
& subscribers will make an  
effort to increase the  
circulation a little more

We shall be glad to illustrate every number  
at our own expense. I am very anxious  
to send to see their fine views it is  
possible to have Dr. Saggett send me  
your letters & make up my mind to have  
you & the family & have a copy in the book  
Museum. Fortunately, however, there are several  
members of the Club who visit us & do, & as  
I had to hustle in raising the money  
at once. The photo-engraving that the  
Bulletin has had done has not cost it  
much, as I get their work & credit at  
half the rate than elsewhere. I must have



9 Traraloo Place

June 1<sup>st</sup> 50

My dear Sir

I enclose postal  
order, as promised, for two-  
thirds of the amount stated  
in your estimate of the  
cost. I trust the lithographs  
are on their way here, as  
the Bulletin has been  
printed for over a week, &  
has ~~not~~ only awaited the  
plates.

Truly Yrs.

Dr. R. Bennett.

9 Grand St.,

New York June 3<sup>rd</sup>

My dear Sir

The state has  
just arrived, much to the  
joy, for I am very anxious  
to see the new Bulletin  
distributed. The form is  
very pretty, & the engraving  
is elegant. I congratulate  
you ~~on~~ on it. The new  
Bulletins will be sent as  
you request; but there is  
no charge for them. It has  
always been customary to send  
a number of Copies gratis  
to authors of new species.

Truly Yrs.

J. R. Seale

(over)

P.S. It was impossible  
to insert the words "With a  
Plate" after "New Fern" in  
your article as the matter  
was all in type. This will  
go on the cover, however.

T. R. G.

I hope we shall hear from  
you again ~~at~~ soon, with  
some other good things.

9 Barclay Place  
New York June 9, 88

Dear Sir,

I got the Bulletin  
for you last evening &  
sent this T. D., by mail.  
Will you please have  
two more lithographs  
made & send them with  
bill to P. V. de Roy at  
Columbia College? & the  
bill sent you the Club's  
check for the amount.  
We have decided to send  
all the copies of this  
number out, between boards,  
to save the plate.

Truly Yrs,  
J. R. Green

9 Mansley Place  
July 1, 1880

My dear Sir

I have just  
received a note from Mr.  
Le Roy stating that he  
had sent you "a postal".  
I infer that he means  
a postal order. It seems  
that he is ill & will  
not be able to come to  
the city before the 15<sup>th</sup>.  
I will then get you the  
copies that you wish. It  
was an oversight on the  
part of the Publ. Committee  
to allow the Bulletin to  
be locked up in the Herbarium  
during the two months of the  
College vacation. <sup>Very truly</sup>  
H. R. Grant.

9 Barclay Place

New York October 30

My dear Sir

Some time ago, Mr. Leggett began a description of in the Bulletin of the "Library & Herbarium" of the U. S. This reached two parts. Mr. Bailey has recently sent a third one regarding the Olney Herbarium, which will be published in the November number. I should like to see this thing kept up till we get notes on all the larger herbaria of the country. Can you find time to prepare an account of the herbarium & botanical library of the Mass. Hort. Soc. for us? Truly Yrs.  
W. R. Ward.

9 Novels Place  
New York Dec 2/80

My dear Sir

I am casting  
about to see if I can't  
get a plate to start  
off with in January. I  
suppose you haven't got  
any more New ferns "lying  
about loose"? Should you  
be so fortunate as to  
secure another one, I will  
try to give you a Colored  
figure instead of me in  
black.

A propos of your  
article on variations in  
ferns, have you ever come  
across a supraspiniferous  
fern. I am quite positive  
that I once collected  
Rapidium acrostichoides, in  
that state, but I can't  
find the specimen in my

Collection to verify the  
statement.

Very truly Yrs.

H. A. Grant.



9 Waverly Place,

New York Jan 24/82

My dear Sir

I am indebted to  
some <sup>one</sup> for a catalogue of  
plants of Malden &  
Medford. Is it to you? If  
so, thanks.

Have you ever done  
anything toward that article  
in your herbarium & library?  
If so, is it dear enough  
complete to be inserted in  
our Feb. No.? I have about  
8 pp. in type, but don't  
know how much more. Mr.  
Seymour may have in hand.  
This I shall have to say  
about this evening.

Truly Yrs

W. R. Gerard.

9 Barclay Place

New York Feb. 5/87

Dear Mr. Sargent.

Your note will  
be in plenty of time. I  
must have liked it for  
Feb., but March will do  
just as well. I hope  
you will have occasion to  
favor us often this year.

There are comparatively  
few botanists who seem  
to do any writing; & it  
takes a "pile" of Mss. to  
make a 12 page number.  
I have a number of  
things to write, myself, but  
it don't look well for me  
or the editor of a paper  
to be occupying space that  
should belong to contributors.  
I have had to do it in  
the Feb. No., however, as trade

is so dull" with us this  
month. This is the first time  
I believe that we ever run  
completely short of outside  
matter.

Very truly Yrs.

W. R. Hoar

9 Waverly Place

1 New York April 23/87

Dear Mr. Sarsupah

Yes, we want  
that plate by all  
means; & I hope that  
you can ~~be~~ manage to  
have it done as cheaply  
as you did the other. Please  
see what difference in  
price there will be to  
have it printed in green  
instead of black. Get  
the lowest terms ~~is~~ that  
you can, please. I have  
now got our printer  
educated up to a point  
where he succeeds in  
delivering the Bulletin to  
me during the last week

of the month previous to  
the one for which it is  
dated. I don't like to  
break the Chasms, but  
I can hold the June  
Drs. back a week or  
ten days if it is  
absolutely necessary.  
Please get the figures  
on the plate as soon  
as you can, & let me  
know what they will  
be.

Truly Yrs.

W. R. Gerard

19 Francis Place  
May 9 81

Dear Mr. Atkinson

I received your  
last letter just as I was  
packing up my overcoat to go  
out, to catch the train &  
I send you a Postcard. I  
wonder whether I shall see  
you here the next:

Illustration Botanical Club. Plate VIII.

put at top of plate, uniform  
with the lettering on your  
the cut. The same as you  
get the exact figures on the  
note from the lithographer.  
Please let me hear what  
they are. I write you to ask  
if it is convenient to send  
along the description? I have  
got the first proof of the  
June No., & should like to  
get your article in type also.

Very truly  
Yours

J. E. Sowerby

9 Waverly Place  
New York May 1887

Dear Mr. Davenport

Trv. with enclosure  
just at hand. I guess it  
won't make any difference  
about Pariski "frank" name.  
There can be given in a  
note in some future number,  
if he shows that he must  
like to be more accurately  
identified. Since the drawing  
is ready, probably attached,  
could you get at a  
description of the plate? In  
your article comes first, I  
could "make up" the Bulletin  
title I have it. It will  
need 800 copies of the  
plate.

Very truly Trv.

J. R. Gerard

Does the "l." after some of  
your measures mean "line  
long"?

✓ June 2<sup>nd</sup>  
 1880.

Dear Mr. Brewster

I sent you a  
 copy of the Bulletin  
 containing Dr. Cook's note  
 on Botrychium, sent to  
 you with note de 2<sup>e</sup>, in the  
 1878 No. June, as well  
 the Bulletin up to 1880.  
 I did not receive the  
 letter to which you allude.  
 The "Arabic Courier" in the  
 Bulletin was nearly  
 written to let you know  
 that single copy was  
 a "free runner" of 7000  
 copies. I failed it  
 immediately in getting it  
 from the printer, & a day or  
 two before I sent up the  
~~single~~ edition. Truly  
 (over) W. R. Brewster



P.S. I have dropped an  
note to Mr. L. asking him  
to mail you the 878 no., &  
you need not take trouble  
to write him. The only  
letter received from you  
was one stating that the  
abbreviations L. & C. might  
be printed out in full or  
left as they were, just as  
I pleased. As I found that  
printing the words in full  
would necessitate the  
alteration of 15 lines, I left  
the matter as it was.

M. R. G.

New York May 26/82

Dear Mr. Brewster

The blame for the error you point out must be divided up between you & the printer & me! You make your capital and small "t's" so much alike that it is difficult at times to distinguish them. This occurred in the Ms. ~~of~~ on "Ophioglossum": The printer took: "The venation may be distinctly seen", etc., to be a complete sentence and set it up so. On comparing the proof with Ms. I read

It in the same way, I see  
what you mean now, but  
I don't think any one will  
draw a wrong inference from  
the statement as it at  
present stands. Still I will  
set the matter right in  
July. The June number is  
now made into pages. I  
never take any liberties with  
Mrs. excepting the editorial  
one, occasionally, of correcting  
slips in grammar or spelling  
or making the use of  
capitals, & such things conform to  
the rule adopted in the  
Bulletin. "The vacation" etc, etc,  
having been printed as a  
separate sentence, I very  
naturally added "s" to  
~~became~~ "became" in the  
preceding sentence to make

Sense.

Hoping to receive  
those notes at your  
convenience, I am

Very truly Yrs.,  
W. R. Grant.

+ New York, July 17, 182

Dear Mr. Sturtevant,

Tr. just at hand,  
The addition to B. Simplex  
came in plenty of time  
to be mounted in its  
proper place.

I am glad that you  
mentioned that "ball" in  
the Ballation (was intentional  
play on words?) for I should  
never have noticed it.

After I get each number  
off my hands, I feel such  
a relief that I don't  
want it again. The note  
was printed just as  
received. If Jones intended  
something underhanded she  
now serves him right; but  
I regret it, however, as it

Casts a reflection on my  
Carefulness. I am no  
pteridologist, but I am  
enough of one to know  
that no Botrychium  
indicatum exists in our  
flora. I have thought it  
my duty to apologize to  
Dr. Parry, as I had  
promised him that  
Jones should give me  
account in the Bulletin  
of the recent expedition  
to California. But in  
making the promise I  
was led to expect that  
Jones contemplated giving  
a full account of the  
trip.

Sincerely, &c.

H. R. Gerard

P.S. About paper, the base is thin, please  
for the Hydrant in. 1869

What is there about this? Jones, very sorry,  
I know ~~nothing~~ nothing about him except that  
he has long been a collector. Dr. Parry,  
I really expected that he did not wish them  
to write any account of the trip, as he  
has a standard article and had no right to  
do so.

9 Waverly Place  
New York Dec 10/82

My dear Sir

Yr. receipt. We  
care only for descriptions  
of botanical libraries for  
the series of articles that  
I spoke of. I am sorry  
that the Nov. Bulletin  
was marred by a transcriptional  
typographical blunder in  
Bailey's article - a  
transposition of types which  
occurred after the last  
revised proof had been  
sent in. I am positive  
about having found the  
supra-oviferous Rapidium,  
but the specimen is lost,  
with a number of other  
fossils, & I would never  
venture to put the statement  
in print without having the

Remember may be inserted, & with orders  
placed when necessary.

Very truly  
Yr. S. H. S. H. S.

I was obliged to ~~re-~~ divide the  
Plate's when I received it, as I had  
nothing large enough to dry it in, except  
8.

<sup>specimens</sup>  
to show for itself. *F. acrostichoides*  
is more apt to split than  
any other of our native  
ferns, & I have no doubt  
that if attention were  
called to ~~the~~ it, just  
such a form as I  
mention might be occasionally  
found. Fission of the rachis  
so as to form two fronds  
lying in the same plane  
is not uncommon in  
many ferns, but this  
summer I found *Sickkonia*  
with the rachis split in  
the direction of the plane  
of the frond, so that the  
two fronds thus formed  
lay parallel with each  
other. I sent you a  
specimen, from the pine  
barrens area of Staten  
Island, of *Pteris aquilina*

with *Coniopsis* pinnules. The frond form  
was not found there. Prof. Eaton says the  
pinnules are not narrow enough to make  
it the genuine variety Coniopsis. I am glad  
to hear that you are preparing a manual  
of the ferns, you can count on me as  
a publisher. Are there no numbers in your  
"Field Club" like Coniopsis pinnules or to  
take the Bulletin the coming year? It  
pays for doing very nicely at present, but  
I have a good one still in market if  
you to market better, that is ready every



New York May 1873

Dear Bro. Sampson

It goes without  
saying that I want the  
plate. Pay Bro. Fox on,  
of course, what you  
think just; but please  
have the whole work  
done at as low a  
price as possible. The  
illustrating of the  
Bulletin proves a  
severe tax on the funds, &  
it could not be done  
if such an extent were  
I not in a position to  
have the work done very  
cheaply. The April No.  
has probably reached  
you we this. It was

delayed, as it has been  
before, by the failure  
of the photo-engraver,  
I furnish with in time.  
The Gray Co. is in type  
and now ready to go to  
press.

Truly Yrs.  
W. R. Beard.

June 2/83

Dear Mr. Brewster  
Owing to my  
being very busy I  
have neglected to  
answer yr. postal of  
the other day. The two  
copies will be sufficient,  
sent along with, as  
soon as you can. The  
June number is ~~in~~  
~~now~~ being set up, tho'  
the May number has  
but just been printed.

Truly Yrs.

W. R. Brewster,

67 Clinton Place  
New York Dec 3/85

Dear Mr. Starbuck  
Mr. Rudkin took  
my since sent me a  
postal card from you  
concerning a matter  
that needs explanation  
in my pass. When you  
sent me \$1.00 in  
Feb. (?) I sent you a  
receipt and entered  
the amount on my  
cash book. Upon  
afterwards ~~looking~~ looking  
at the subscription  
book I saw 1884 was  
unpaid and so entered  
the amount opposite '2.  
I am very slow about  
sending out bills, and  
at the end of the  
year from a quarter to

that the subscribers  
are usually in arrears.  
If you paid 1884 - all  
right, and in fact it  
is not of much conse-  
quence any day.

Sincerely Dr.

Dr. R. Everett

P.S. Are you going to  
have some "fine notes"  
for me before long?

8

By Clinton Place

New York April 10

Dear Mr. Brewster

Your communication  
was received, but I  
believe it was just  
as I was in the  
midst of packing up  
in order to remove,  
hence the answer.

Truly Dr.

W. R. Brewster

Alameda Nov. 30th. 1874

G. E. Pavement

Dear Sir,

Yours of 20th ult was duly received. For the past month I have been a victim to carbuncle boils, so that my correspondence has been neglected. I do not know how many of our Cal ferns are contained in my barbarism, but I will be able to furnish you with the following named species, which are not on your own list:—

*Polypodium californicum*

" *Scouleri*

*Adiantum Chileense*

*Pellaea andromedaefolia*

P. mucronata,  
Gymnosarum triangulare  
Woodwardia radicans  
Aspidium Munitum  
" argutum  
" Californicum

These are all that grow in  
this district which are not in  
your herbarium; but I shall  
probably be able to add to  
the number during next sea-  
son. I wish you would send  
me duplicate specimens of any  
you can spare. We have of your  
catalogue 3705, 3706, 3731-3755.  
I am now overhauling my  
herbarium, & in the course of a  
month I will know what I  
have already collected. I am  
Very truly Yours  
W. P. Gibbons



Alameda, Jan'y 4<sup>th</sup> '75  
Geo. E. Davenport.

Dear Sir,

Your valued favors of 16<sup>th</sup> ult. were duly received, for which you will accept of my cordial thanks. The specimens being all in good order. The unusual mild season which we have enjoyed, has afforded me an opportunity of collecting some fresh specimens, which I will send you as soon as they are sufficiently dried, which will be in a fortnight. Meanwhile, I mail a box containing some fresh notes, which you may be gratified to receive: they will

doubtlessly all grow, if you  
keep them within a tempera-  
ture of 60°.

- No. 1 - *Polypodium Californicum*.
2. *Adiantum Chilense*
3. *Aspidium Munitum*
4. " " *Argenteum*.
5. *Pellaea Andromedaeifolia*

I will have splendid spe-  
cimens of these & other species to  
send you. I intended to put  
some *Gymnogramma triarigularis*  
in the box, but I know not if  
it was done.

Yours truly  
W. W. Gibbons

Alameda Apr. 13th 1875.

Gen. E. C.avenport

Dear Sir

I sent by this morning's mail a package of which the inclosed labels are the index. I have had so many interruptions in the effort to classify my collection, that I am now laying specimens aside without reference to order, as I verily lack bundle. I will soon be able to send you a larger package. Last week I mailed a box containing *Echiveria lanceolata*; there is some differentiation apparent, but how much it may amount to, is uncertain. I will have both of them in flower this season. There was also *Cyrtopterus*

fragilis; Nephrodium —  
Sedum spathulifolium & some  
fine specimens of Hypnum.

You will accept my thanks for  
the specimen of Aspidium which  
arrived safely. In haste

Yours very truly  
W. H. Gibson.

Alameda Aug. 22d. 1876

Geo. E. Davenport

Dear Sir,

Three days ago I sent  
to you a package of plants which I hope you  
have received in good order. Since my last  
correspondence with you, I have been unable  
to pay much attention to botanical matters,  
beyond classifying my heterogeneous collection of  
5 or 6 yrs accumulation. This done, I will be  
able to redeem my promise of sending you  
from 500 to 600 specimens, by instalments, as I  
can find time to put them up. I wish you  
would send me yours. I should like to have  
duplicates or triplicates of ferns, as far as you  
can supply them. The vol. on Cal.  
Botany recently issued, under the auspices

of Prof. Gray, has many changes in the  
generic names, as well as in species. As  
yet, I have only had a casual glance  
at it, having been unable to obtain a copy  
for my own use. The specimens I have  
sent are labelled in accordance with  
our previous authorities. You can  
easily correct the names by the new  
arrangement. With the hope of hearing  
from you soon, I am

Very truly Yours

W. W. G. Gilbert

J. G. Gifford's

Desiderata,

Kottb - tenera

" - Graepi

" - Lemmonii

" - Nivea.

Phell - leucopoda

" - Lindheimeri

Pellea - aspera

" - pulchella

Adiantum - tricholepis

Asplen - dentatum

Asplen - minutum - var - nudatum

" - Praeputis

" - Conterminum

" - juglandifolium

Arcinella - Mexicana

H. B. - boreale.

Morning as Horticultural Hall  
is one of the pleasantest Remin-  
iscences of an excellent pleasant dinner.  
I need not tell you how much I  
wish it would give me, to have an  
opportunity to visit your  
kindness, but should you ever  
find it convenient to visit Lynn  
Mass, either for business or pleas-  
ure, Mrs. Hubbard, as well as my  
self would be glad to be acquainted  
with you.

With kind regards, I remain  
gratefully yours.

Ed. St. Clifford  
44 Broadway St.  
Boston  
Mass.

H

1  
Sept. 24<sup>th</sup> / 41

Mr. Longman

Dear Sir,

Will you  
be so kind as to send me  
some of the same with this  
reference to the  
penmanship. I am very anxious  
to know they will prove so, although  
I am afraid it denotes a fault  
on the indusness of some of them.  
The largest & most perfect one  
came from the North River, the  
smaller & imperfect ones  
my own penmanship.





and yet some of the...  
will you be kind enough to...  
from me, when you...  
may be...  
of...  
to...

I remain with kind regards.

Yours truly,

C. S. Lippincott

44...

1  
I received...

Dear Sir,

...

I find that

I am very...  
long...  
the...  
you...  
things...  
some...  
have...  
to...  
my...  
intensity...

When I wrote, for your permission  
to send a quantity of your little  
pills and the very much improved  
version, as they are common in  
China, but I think I can send  
some of each for the personal  
copies I want.

But you, I shall make an  
effort, to find something more  
worthy of your reputation.

As I think you yourself in  
want of the pills for your  
I have ordered some, of the  
various that you advise.

The 1<sup>st</sup> of this month, I wrote to  
Mr Cassin, & sent him by express  
several copies of the testimonial  
containing your article on Opium  
abstinence. Having heard nothing  
from him, I conclude, it has



so the matter of the note upon  
I must be immediately settled, in  
which he speaks of being willing to  
you, in the copies, & from which  
I infer, that it is in the original  
should have been in the post file  
& with respect to you, in the same  
I would a copy, by which, but  
there was nothing about it to indicate  
from when it came, Noting however that  
it had not come from Mrs Cassin, it  
immediately decided, that it was through  
your kindness I had received it, more  
especially as several of my correspondents  
were recipients of the same favor from  
you, about that time. I have accepted  
my share, & thank you for the same. I  
hope that you may receive some sub-  
stantial remuneration for it, through

Mrs. C. I have not yet had an op-  
portunity of reading it over, I can  
say as I wish, had I seen what  
it would gather from a rapid perusal  
of it, which it should like your  
idea of a re-arrangement of the  
different parts of it. I particularly  
of the Constitution. - It appears to  
be a valuable contribution to  
your literature, and I suppose you  
have heard of our own kind of  
in Europe. It has not yet  
started, & I have not yet been  
mentioned, but I think I shall  
I hope it will prove a success.  
I enclose herewith one dollar,  
for which I would like you to  
send, to the <sup>young</sup> Catalogue, when first  
listed. - I sincerely hope you in

brought you renewed health  
& strength, & many blessings  
I remain sincerely,

Your friend,

J. J. Gifford  
44 Montgomery St.  
Syracuse.

N. Y.

Syracuse Jan 31<sup>st</sup> 1879

Mr Greenford.

Dear Sir,

Enclosed

please find three dollars, for  
which, I would like you to  
send me one of your packages  
of pressed ferns & flowers.  
If the amount is not correct,  
please inform me, & I will  
make it right.

It had is the prospect for the  
appearance of your new catalogue.  
I hope you meet with suffi-  
cient encouragement to warrant  
the publication of it.

Mr Myers has met with very  
good success in obtaining sub-  
scribers in this city. It was

my own intentions to aid the  
good work by canvassing a  
little for it, when I found  
that she was interesting her-  
self, & doing perhaps better  
than I should have done.

We should all feel disappoint-  
ed should any misfortune pre-  
vent your publishing it, for in  
anticipation, we are prepared  
to find it of great value.

I think I wrote you of sending  
a dollar to Mrs Cassino for copies  
of your Article on Episcopism.  
The date, I think was Oct 1<sup>st</sup>.

Not hearing from him, I seven  
or eight weeks after, reminded him  
of my order. He wrote me that  
that he would return my money  
or send copies of "The Nationalist"  
containing the Article for thirty  
five cents a piece. I then wrote  
enclosing five cents more, & order-

ing three copies of the Nation-  
alist. I have not seen the  
papers, or heard a word from  
him since, so a few days ago,  
wrote for the money to be  
returned. Through your kind-  
ness, I already possess a  
copy, & the friends upon  
whom I intended to bestow  
the extra ones, have already  
supplied themselves. But  
we learn wisdom by exper-  
ience, & I shall not attempt  
to transact any more busi-  
ness through Mrs Cassino.  
When it ever be done in  
any other way, for we was  
always been very dilatory, &  
unbusiness like, in every  
action that I have had with  
him.

Flopping the Printer, with  
its cold & bracing air, has

specimens of that fern which  
I possess, than on this, &  
the pinnae are not so triangular  
lar. yet the ~~habit~~ in  
Eatons N. A. Ferns, of St. Newbery,  
very much resembles this.

I have all the species of the  
Genus *Notolalana* now, except  
viz. *N. tenera*, & *N. ...*  
*Glazi*, which of course, is, at  
present, entirely beyond my  
reach.

When in New Bedford last  
Summer, I met a lady, who  
had just returned from a  
second trip to Cal. She had  
traveled all over the state, &  
after my return to Syracuse  
she sent me two specimens  
some of which I will enclose.  
She said she gathered ~~it~~  
in Cal. Seeing that

Syracuse  
June 27<sup>th</sup> 1860

Mr Davenport.

Dear Sir,

I think  
I have found a new station  
for *Bot-Lemnaea*, and if  
you will be kind enough to  
examine the enclosed fern,  
and pass judgment on its  
genuineness, I shall be great-  
ly obliged. I found but one  
specimen, & the locality  
seemed a singular one for it.  
It was in a dry Maple &  
Hemlock woods, with no  
limestone rocks near, or  
at least, none within men-  
tioning. Your other stations  
in this vicinity, are both at



the sort of tall abrupt, lime-  
stone cliffs.

I don't know as you would dignify a place where one "ore bed" fern was found, with the name of a Station, but probably, at least I hope, more will be found in the future, & the claim to the title be fully established. I am very certain that none has ever been discovered there in the past.

It is six or seven miles from the Jamesville Station, & at least a mile & a half from the Geddes Farm.

I also enclose a specimen of *B. Lemmonii* from the Jamesville road, which is rather curious, having the two lower strobili *perianth* *modified*

& which I would like for you to keep, if you care for it.

A friend, formerly from Boston now, temporarily living in Deerwood, Dakota T., sent me in a letter last week, the enclosed *Strophomena* which I think is Parry's, but am not sure, so send it for your inspection. Will you be kind enough to identify it for me? My friend is not a Botanist, which is a thousand pities, she is so interested in flowers & ferns & would make a fine collector in that new country. At first, I took this to be *St. Newberryi*, but the primules are more contracted & narrower on all the

Please address.

Mrs Henry Gifford.  
Acushnet. near  
New Bedford  
Mass.

it was *Pellaea - hastata*, (is it not?) I immediately wrote to her asking her if she was sure she had found it there, & if she would give me the exact locality; but the poor lady was then ill, when my letter reached her, & shortly afterwards died, so, of course, I can never learn the truth of the matter. Though no Botanist, she was an extremely intelligent & observant person. She is a mystery how she could have made the mistake, but a mistake of course, it must be. She had the fern growing in her house & I think she must have brought home some green house ferns as well as wild ones, & got them confused in

her mind. She told me,  
they had all died excepting  
this, & perhaps this survived,  
because accustomed to living  
in a pair, while the others  
were not.

With all the other favors re-  
ceived at your hands, I wish  
to thank you personally for  
the copy of <sup>the plate of a</sup> Bud Larus in  
Batjehka, which was Barnes  
distributed, as a gift from  
yourself at our last Club  
Meeting. I possess a copy of  
the July Bulletin containing  
your Article on this subject, but  
as there seemed to be enough  
for all, I thought I would like  
a second copy for a friend, who  
is not a Member & cannot well  
afford to purchase all of those  
things which she desires.

New Bedford July 9<sup>th</sup> 50

Mr. Davenport.

Dear Sir,

While  
writing the above, I was inter-  
rupted by the receipt of  
a Telegram, announcing the  
sudden death of my Hus-  
band's Mother, at New Bed-  
ford. We were obliged to leave  
on the good train for the  
Coast, & I had no time to  
finish & mail my letter.  
I brought it with me, &  
will now send it to you.  
I should be very glad to  
hear from you here, where  
we shall probably remain  
about a month.  
I remain, Respectfully & Potentially  
yours,  
Mrs. S. L. Gifford

against it, but I was con-  
vinced in my opinion, finally  
that it was St. Parry's, by Mrs  
Rust & Mrs Barnes, who both  
pronounced it that. I am  
very much obliged to you for  
deciding the matter for me, &  
am very glad you kept a  
specimen. I intended to have  
written you to do so.

I did not observe the peculiar-  
ities of the *B. sumaria* I sent  
you, until I arrived home, or  
I should have taken pains  
to <sup>have</sup> secured the breed. But, I  
seldom take a word of that  
pen, as it already seems in  
great danger of annihilation.  
I took it for granted it was  
a *sumaria*, as the *Maticaria*  
*folium* has never been found  
in that vicinity.

1850  
New Bedford July 16

Mr Davenport.

Dear Sir:

Many  
thanks for your kind letter &  
generous gift of *C. viscida*, receiv-  
ed yesterday. Both were very ac-  
ceptable. Two years ago, I pur-  
chased of J. B. Lemmon, a spec-  
imen of *C. viscida*, but, to my  
great disappointment, when I ar-  
rived, it was so contracted, & dried  
up, that I could not even form  
an idea of the outline of the  
frond. From those that you  
send me, I for the first  
time have found out, what  
they are like. Please accept  
sincere thanks for them, & also  
for your kind offer to send

Asagi. Of course, I should be delighted to have it, I am already under great obligations to you, which I do not expect of ever cancelling.

I will endeavor to obtain for you the Asp-sprinkler varieties, but I do not think it is very abundant, in the vicinity of New Bedford at least, I have not observed much of it. I yesterday found Asp-filix-ferina var. *viridissima*, at least, I judged it to be that, from its decidedly red stems.

I think I can find all the varieties of - filix-ferina as it seems to be abundant. *Dicksonia-punctilobata*, also is to be found.

*Woodwardia Virginica*, & *W.*

*angustifolia* are also to be found within the lit. limits, but I have never yet been able to find a fertile pond of the latter.

I had already written to my friend in Dacota to obtain for me all the specimens that she could of the fern that she had seen, but wrote again after receiving your letter, & I feel sure she will do the best she can for us in the way of collecting, for besides being fond of the pursuit herself, she would be anxious to oblige us. I was not very much surprised at your decision that the fern was *C. longuica*, for at first I was inclined to call it that, but have forgotten now, in the absence of my books, what it was that decided me

The small one that I found  
in the new place, I plucked  
hastily, thinking of course, that  
I should find more, when I  
failed in that, I tried to find  
the spot where it grew, to ob-  
tain the bud, but was un-  
successful. It was my inten-  
tion to revisit the spot, &  
make a more thorough  
search, but our sudden  
summons East - prevented.  
But Mrs Rust, who was with  
me, will doubtless do so, & if  
she should find anything, I  
presume you will hear from  
her.

I hope to be able to call  
upon you, while passing  
through Boston, & shall  
try to "make time", to look  
over the Herbarium, which

Must now be exceedingly  
interesting.

Mrs Myers regretted equally  
with yourself her inability  
to examine it, but her stay  
was so short, & her time fully  
occupied.

With kind regards, I  
remain gratefully & respectfully  
Y. S. Gifford

Account of the

*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page]*

Done

in 1811



I hope

1. ...  
2. ...  
3. ...  
4. ...  
5. ...

I would like to repeat my invitation to you to visit our City. My Husband & myself would be most happy to entertain you & I have no doubt of the beneficial effect of the change of air upon your health.

You have heard I suppose of the pecuniary venture of the S. B. Club, in the shape of an Authors party at the House of our President, Mrs Rust. I hope it will be a success financially, for our Treasury is rather empty, & there are many things that we much desire to have.

With kind regards, I remain  
yours Botanically.

J. S. Gifford  
44 Montgomery St.

1880  
Lyoness Oct 27<sup>th</sup>

Dear Sir,

I send you today the *Aspidium Spinulosum* which I obtained near New Bedford. Also a <sup>curious</sup> specimen of *Asp-Berti*. At least I called it that as it grew with that Fern, a specimen of which I will also send, from the same locality.

I find I was mistaken in regard to the "New Mexico" fern of which I spoke to you. They were from Mexico, & were gathered on Sanonera Mats, Northern Sonora, Altitude 6500 ft.

I send them for you to examine

I called them  
*Pellea - ternifolia*  
*Gymnogramme - hispida*  
& about the third one I was  
uncertain, as I always am  
in regard to a Cheil. or Mott.  
alena, <sup>that I am not familiar with</sup> It is not like any  
Cheil that I have, but it  
seems to answer the description  
of Cheil - Lindheimeri, that  
you is not in my Herb - so  
I had now to compare it  
with. If these ferns are desir-  
able to you, or will be use-  
ful, I would like for you to  
keep them. If you do not  
care for them, some time  
when you are sending a pack-  
age to Syracuse, you can en-  
close them, but please do  
not take any particular notice  
about it. I know your time

is valuable, & I do not wish  
to encroach upon it. You will  
find in the package a Bot-  
ternation, which I send, on a  
cloud of a portion of the  
sterile frond being punctured,  
& a bar incision, which is in-  
closed merely because it is a  
rather fine specimen. These  
also came from near New  
Bedford.

You very kindly invited me to  
send my List of Desiderata,  
I will do so, & of course, would  
be very grateful for any specimen  
that you have to spare, & if  
in any way or at any time I  
can be useful to you, in the  
way of making Collections  
here, or at the East, where I  
now expect to spend next  
Summer, I shall be most  
happy to do so.

Dear young woman, I am  
wondering how you are,  
and how you are getting on  
in your studies. I hope  
you are progressing well,  
and that you are enjoying  
your studies. I am sure  
you will be a great success  
in your career. I am  
glad to hear that you are  
the first in your class,  
and that you are  
a very able and  
capable young woman.  
I am sure you will  
be a great success in  
your career. I am  
glad to hear that you are  
the first in your class,  
and that you are  
a very able and  
capable young woman.

I am sure you will  
be a great success in  
your career. I am  
glad to hear that you are  
the first in your class,  
and that you are  
a very able and  
capable young woman.  
I am sure you will  
be a great success in  
your career. I am  
glad to hear that you are  
the first in your class,  
and that you are  
a very able and  
capable young woman.  
I am sure you will  
be a great success in  
your career. I am  
glad to hear that you are  
the first in your class,  
and that you are  
a very able and  
capable young woman.





of the day, in, in some way  
has what she has learned with  
it all, & wishes to learn, but  
we shall hope that after a few  
days, she may feel like in-  
forming you further. She likes  
& looks well, & is, for all  
fall, well prepared to receive the  
responsibility of trying to fill  
his shoes, but finally, Mrs. P  
has concluded to transfer the pos-  
ition, & was elected at our annual  
meeting last week. We have a very  
efficient Vice Pres in the per-  
son of Mrs. G., a lady, who  
in her way, has also a great  
deal of Executive ability, & whom  
we should like to know more  
fully, but she would not con-  
sult. So, we hope to get this  
the year, without any very dis-  
astrous results, from Mrs

Pres's decision. Several old  
Governors, who had previously de-  
clined, have returned, & might  
so, have seems to promise a  
lack of enthusiasm, which  
would have to be a very great  
drawback. I have a few  
and it will be a great relief  
to have some one to  
However, in all my meetings  
I have had a great deal of  
big business.

Mrs. Payer will do all she  
can to promote the best interests  
of the Club, but she is not  
strong, and to be a true  
member of the Club, we should  
be in a general meeting in  
Buffalo, in business, & we  
question the Club, in the first  
place, knowing whom we can  
go to, & I think it is

on you. We are going to Fair-  
haven to board, you probably  
two or three months, at least,  
& if not going down, on our  
way back, we shall spend  
a little time in Wakefield, &  
I shall then hope to  
spend some to examine the  
Herbarium of this Herbarium,  
On account of going away, as  
we do every Summer, I am not  
at all reliable as a collector,  
but, if there is any way, in  
which I could assist you  
in your Botanical work, I  
think of course, in getting to-  
gether specimens to work with,  
it would give me great pleas-  
ure to do so. I am too well  
aware of my <sup>botanical</sup> deficiencies, to think  
I could assist in any other way.  
I remain respectfully yours, J. S. Gifford

Lynn Mass. May 11<sup>th</sup> 1852

-Worcester.

Dear Sir,

The  
Package of Herbs, sent through  
Mrs. Rust, came safely to hand,  
and I write to thank you for  
your great kindness, in re-  
membering me so bountifully.  
The *Tachites*, I had never seen  
before, or the *B. boreale*, except-  
ing in your Herbarium, & they  
are both long coveted treasures.  
I was under the impression that  
*B. boreale* was a much fleshier  
thicker plant, more like the  
foreign specimens of *B. lewisii*.  
Its general appearance is very  
like the latter plant, is it not?



but the head form decides its species, I suppose.

The *Opophinglostomum* specimens are peculiar looking, & I am very glad to have examples of them from different parts of the country.

I received your letter with much pleasure, but regretted to learn that the trouble with your eyes is still so serious. I have not forgotten the March winds on the coast of New England. Their biting severity was always considered very trying to persons not in robust health.

I do not wonder at a little discomposure on your part, in view of the amount of work you had planned to do, & the unfitness of your visual organs

for performing their part in it. But, I have faith to believe, it all will come out right, the lecture before the Institute included. I only wish I could be there to hear it. Do you select your own subject, or is it given you?

Many thanks for the kind thought of inviting me to join the Field Meeting of the Institute last Summer. It would have given me great pleasure, and I shall it again happen that you would like to communicate with me, when in Wakefield, please address, Care, Capt. C. A. M. Lober, or Box 6, 3, 4.

We are expecting now to go East, about the 1<sup>st</sup> of July, & should we pass through Boston, I shall try to call

44 Montgomery St  
Syracuse June 8 1883

Mr. Davenport,

Dear Sir,

The Supplements, and Check Lists  
came safely to hand, which I  
should have replied immediately  
by, but have been ill, & unable  
to attend to it until today.

Enclosed please find thirty-  
six cents in Postage stamps  
to pay for the same.

I expect to be in Boston some  
time in July, & shall try to  
call on you.

Meanwhile I remain pretty

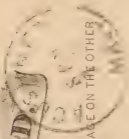
& sincerely yours,

L. L. Gifford



**POSTAL CARD**

WRITE THE ADDRESS ON THIS SIDE - THE MESSAGE ON THE OTHER



*[Faint, illegible handwritten text]*

## MEMORANDUM.

Mr. George C. Ransom,Dear Sir,

EDITORIAL DEPARTMENT

UTICA MORNING HERALD.

Utica, N. Y., Feb. 7, 1880

Your communication of Jan. 28 came duly to hand but I have not found time to respond sooner. I should be very glad to send you a specimen of the fern but for the following reason. I board in a large boarding house. This winter my wife is obliged to be in New York under medical treatment. As a consequence I rent the suite of rooms we usually occupy, and take a small room on upper floor for myself. Everything that we could get out away was of course packed up, and among the rest were the bot. specimens which I gathered last summer. They are boxed and packed away in the garret with other things, and it would be very inconvenient for



UNITED STATES DEPARTMENT OF AGRICULTURE,  
BUREAU OF ANIMAL INDUSTRY,  
OFFICE OF SPECIAL AGENT OF THE DAIRY DIVISION.

Clayville, N.Y. Jan. 14, 1897.

My Dear Mr. Davenport,

Your very courteous letter was received this A.M. together with the papers on ferns which I had not before seen and was much pleased to obtain. Your letter unravels some of the things about which I was puzzled, particularly the *Acrostichum* & the *Asplenium*. Mr. Pringle made the alteration in label of the latter in writing and inadvertently wrote palaeaceum instead of latoni, as of course he must have known the correct name if he had stopped to consider. It is a very beautiful & distinct species.

I shall have to charge Mr. P. also with making the error in *Cheilanthes Cooperae*. That was the printed label which accompanied the specimen, but the specimen itself is as distinctly C. lanosa as it is possible for it to be. The probability is that Mr. P. got hold of the wrong label, or was a little absent minded or inattentive. C. lanosa you know is a very distinct thing, & difficult to mistake

after you have once become familiar with it.

I have again examined the Cyathea and compared it with Puddle's Scaevola, & the impression grows upon me that the differences between the two specimens are too great for them to belong to the same species. The only way to settle the matter however, is to make a description on the spot where the fern is growing.

Now can you tell me where I can obtain, either by purchase or exchange, good specimens of your two new New England ferns? I am quite willing to pay for them in any way desired, & want to become familiar with them so as to be on the lookout next summer. By the way, I am thinking somewhat of running over to Bermuda for the month of March, & shall try while there to secure the three species peculiar to those islands.

Have you changed your views at all in regard to the substitution of Dryopteris for everything in the Aspidium group? I certainly sympathize with you, & cannot yet make up my mind to accept such a tremendous change. Instead of making such a grand combination, I would favor breaking up the group into more genera, in accordance with the natural habits of the ferns.

I send you a copy of my article on Venezuela corrected.

Very cordially Yours

J. D. Silliman



## UNITED STATES DEPARTMENT OF AGRICULTURE,

BUREAU OF ANIMAL INDUSTRY,

OFFICE OF SPECIAL AGENT OF THE DAIRY DIVISION.

Clayville, Jan. 25, 1896.

Dear Mr. Davenport,

Your nice pkg containing Rapid. simulans & S. cristata × margination came this M. I have examined them with much pleasure, but with no eye of recognition, & have read your descriptions which leave no doubt as to the character of the ferns. I have never seen the simulans, so far as I am aware; but the other has a sort of a familiar look, caused I suppose by its resemblance to cristatum. I find that there is in my herb. a frond of crist. that is decidedly different from normal crist. & different from your var. also. The pinnae & segments are broader than the normal, only the upper part of the frond is fertile, & the sori instead of being regular as in the normal form & extending down to the costa are in the edges ~~not~~ of the lobes but do not extend to the ends, and they do not fill the space between midrib & edge as usual, leaving a comparatively wide space on each side of the costa vacant. As you look down upon the frond, the sori appear as if they were scattered, much as they do in Rephrod. cicutarium. Have you noticed anything

like it? Let me thank you most heartily  
for the new species, which fill up my N. A. *Aspidia*  
with the exception of *A. Californicum*, which somewhere  
or other I do not seem to have run across either in Cal.  
or in exchanging.

I take pleasure in sending you a  
little pkg containing four ferns that are peculiar  
to Jamaica, and which I think possibly you may  
not have. The two Polypods are not in the Synop. Fil., but  
in Baker's "New Ferns". The other two have long been known,  
but are not common even in Jamaica. I do not  
send these in return for your pkg, but simply  
because I want to be represented in your herbarium.  
That is a laudable ambition, I am sure.

With best regards & many thanks, I am  
Sincerely Yours

B. D. Gilchrist

Thanks also for the printed matter, which I shall  
study until I am familiar with it.

from Calca.

*C. Cooperae*, - bipinnate, sometimes slightly tri-fid, segments as Underwood describes them, "roundish ovate, crenate & incised," hairs articulated and gland-tipped, giving them a viscid appearance.

Pringle's fern & *Cheil. vest.* from Va., Tenn., & N.Y. - fully tripinnate, segments oblong often rather pointed, hairs white articulated but acute never gland tipped, John Williamson seems to be the only author who mentions that the hairs of *C. vestita* are articulated.

Pringle's fern differs from all by being much more densely tufted on the rootstock by having stipe densely hairy to the very base, by also having a thick ascending caudex with broad pale brown scales which ~~also~~ extend to the base of stipes, by more rigid & brittle fronds broader in proportion to length, & by a more dense hairiness on both sides of frond, being what might be called truly matted.

UNITED STATES DEPARTMENT OF AGRICULTURE,  
BUREAU OF ANIMAL INDUSTRY,  
OFFICE OF SPECIAL AGENT OF THE DAIRY DIVISION.

Clayville, Jan. 26, 1897.

Dear Mr. Davenport,

Your letter of 24<sup>th</sup> came this Morn.  
& I was so much interested in the matter that I  
threw up everything else & went at the specimens.  
I see that Eaton says that *C. vestita* has never been  
found west of the Rocky Mts, which might seem to  
settle the question. Perhaps it does, so far as Pringle's spec-  
imens being that species are concerned, but not that they  
are necessarily *C. cooperae*, which I very much doubt.  
I have taken all my specimens this morn & cut hairs &  
segments of each under the microscope, & made some notes  
"on the spot", which I enclose herewith. I had noted all along  
the extreme, matted hairiness of Pringle's specimen, but thought  
that this might be the effect of location, climate &c. But  
the more I examine it, the more it seems to me distinct,  
and I hope you will give it a thorough overhauling before  
making a final decision. When you do that, of course the  
matter will be settled, & I shall label the fern whatever you  
decide it to be. At present it stands in my herbarium as *C. lanosa*,  
to which it seemed to me to come nearer than to *C. cooperae*.

Yours sincerely, J. D. Hill

I wrote you about a little page yesterday.

Clayville, N.S., Jan. 12/99

Dear Mr. Davenport,

Your letter together with the enclosed & very nice specimens of Cheilanthes Pringlei arrived safely yesterday, & I am under many obligations for them. The fern is so brittle that I can imagine it would be difficult to make perfect specimens of it, altho' Mr. Pringle would succeed in doing so if any one could. What you sent makes a very nice sheet in my herbarium, & with your label attached I am very proud of it. I turned at once to your description & figure in the Torrey Bulletin & by means of them was enabled to understand the peculiar features of the species without trying my eyes by use of a glass. The species seems to be very distinct & beautiful.

I am a little curious to know where in the genus you would rank it. The Fern Bull<sup>n</sup> list puts it next to C. Californica. Kellie's more recent list places it between Parishii & tomentosae. On the other hand, Baker's "New Ferns" gives it as "24 stae", which means nearest to 24 in the Synop. Fil. Now 24 is

C. viscosa Kff., a species that I do not know, which stands next to C. hirta, but under which Baker ranks C. leucopoda. I can see but little resemblance between this last & C. Pringlei. My ferns are arranged & numbered after the arrangement in Syn. Fil., so of course I have numbered C. Pringlei as 24<sup>t</sup>, but am not satisfied with its position there. Should be glad to learn your opinion on the subject, inasmuch as your description does not indicate what you consider to be its affiliations.

I am sending with this a little pkg containing specimens of my new variety of Adiantum which I trust may prove acceptable.

Hope you will send me a copy of anything you may publish on the Potrychium question, if you have any to spare.

With kindest regards, believe me  
Very sincerely Yours  
B. D. Gilbert

Don't deplete a nice specimen of C. fibrillosa to send to me. I can wait - perhaps you may get it again from some other source.

Clayville, N.Y., March 4 - 1899

Dear Mr. Davenport,

Here I am again asking for another favor. I am making a special study of the *Asplenium felix-foemina* group, with a view to get together a large number of forms from different parts of the country & see what can be done toward making close analyses & formulating distinctions between them. Already I have a considerable quantity of material to work upon, including #1 sheets from the Smithsonian collection which is especially rich in western & Alaskan forms. One of these sheets, collected by the Ringgold & Rogers expedition of 1852-5 (?), is a distinctly new species, & I expect to find others before I get through. Now you can see why I am writing to you. As I understand it, you have under cultivation the var. *laciniatum*, & I am in hopes that you have some representative fronds of that var. that you can send me together with any remarks that you may have to make on its permanence.

If your sheets were not so large, I do not know but that I should have the assurance to ask you to loan me all your specimens of *A. f.*, but I am afraid they might get injured in coming. You might have a

flat box made for them at my expense & sent by  
U. S. express, (that is the only one that comes to our village)  
& they would certainly come in safety there. But I would  
not have you do so if you have the least objection to letting  
them go out of your hands. As I said, the Smithsonian  
have loaned me theirs, & I expect Columbia to do the  
same, & possibly Harvard. Dr. Robinson has done so  
on previous occasions. And the Fern Chapter generally  
will turn in to help. Mr. Eaton has already sent me  
a fine batch of things, - var's of f. f. Incan. Several  
western & non western collectors are also to send me  
things from their localities, while local collectors will  
do what they can. I do not intend to go outside of Nor. Amer.  
but expect to receive a number of European forms for  
purposes of comparison. I am also pretty well supplied  
with illustrated works on the subject, so that I hope to be  
able to make a reasonably complete analysis of the  
group.

Hoping that you are bearing the  
winter & spring weather well & continue in your  
usual state of health,

Very Cordially Yours  
Benj. D. Gilbert



Clayville, N.Y., Mar. 24/99

Dear Mr. Davenport,

From the fact that I have not heard from you lately, I am afraid that you are going to send me your sheets of *Aspl. fil. foem.* when you can get time to do so. I write to beg you not to do so, as I already have an immense amount of material on hand, consisting of the whole collections of Harvard, Yale, Smithsonian, St. Louis Bot. Garden and Cal. Acad. of Sciences - in all between 3000 sheets with twice that number of specimens. It is not likely that any one could add to the number of varieties included in these

collections. I find that  
Harvard has specimens of  
*var. laciniatum*, very nice  
too, from a locality in Virginia.  
Of course, if you have a spare  
frond or two of that var. from  
your garden, I should be very  
glad to receive it for my own  
herb<sup>um</sup>. But I should be  
afraid something might  
happen to your large sheets  
if sent on I see, & do not  
think it advisable to take  
the risk.

How are you  
nowadays? Does this protracted  
winter draw upon your vital  
forces at all? I fancy it does  
on mine, altho' I seem to keep  
fairly well. By the way, I  
rec'd the other day proofs of  
my paper read at Boston.

so the pamphlet is evidently  
under way. No doubt you  
have also rec'd yours.

With best regards, believe  
me

Most cordially Yours

P. D. Gilbert

Thomasville, La.

Feb. 15. 1900

Dear Mr. Davenport,

You may be surprised to see my signature under the above heading, but I am spending the winter & part of the spring here, to get away from the ice & blizzards of my own home.

The Fern Chapter is to hold another meeting in June, at the Botanical Garden in New York, at the time of the annual convention of A. N. S. in that city. I am asked to serve on the committee for getting up a program, & I write to ask if you will be one of the speakers & furnish us with a paper on some subject connected with ferns? The choice of subject will of course rest with you.

I trust you will not disap-  
point us, as we know that  
if you consent, to give us an  
address, we shall be sure of  
a good one. The papers & pro-  
ceedings will of course be  
published.

If you answer me within  
two or three weeks, please  
address me at this place  
care Mrs. J. R. Scott. After  
that I shall be at my home  
in Clayville. Hoping to hear  
from you favorably & soon  
I am

Very truly Yours  
J. R. Gilbert

Thomasville, Ga., Mar. 21/1900

Dear Mr. Devereux,

Your letter was rec'd in due course of time, but I sent it on to Mr. Maxon to read & he has only recently returned it. Just after its return I went off on a trip to Florida & had no time to write while I was away. Let me say that we are much pleased with the prospect of having you give us a paper in June & we sincerely trust you will be able to present it yourself. But if anything should prevent your being present, don't fail to let us have the paper.

Maxon writes me that a Mr. Devery(?) has published "a criticism upon certain statements contained in our Boston Reports." Have you seen it? I do not recognize the name, nor even know whether I have got it correct, Mr. Maxon's writing being apparently hurried & a little blind.

I do not have opportunity to see the Field Museum publications, but should be very glad to see a copy of your article when it appears. You seem to have a lot of botanical work on hand, & everybody at all interested in ferns is always ~~interested~~ anxious to see whatever you may publish. We all recognize that you are exceedingly cautious & conservative & that there is no danger of your making a

a mistake through an ambition to become authority for a new species or variety. If you have any desirable duplicates from the Geisbriht collection, I should be very glad to obtain them, either by purchase or otherwise. I expect Mr. Blute home from Jamaica next month & he is to put his ferns into my hands for determination. There is little chance that he will obtain anything new, but if he succeeds in entering the "cock-pit" country he may make some good finds.

By the way, Maxon writes me that he has made a new species of the var. incisum of *A. Trichom.* found in Cal., calling it *respertinum*. It will be in Underwood's new edition. Do you agree with Wed. in his idea of changing all our *Asplen.* to *Athyr.*? I wrote him on the negative side, very decidedly, two months ago, but he has never answered. The *filix-foem.* section is the only true *Athyr.* & both especially differentiated that from *Asplen.* So, how Wed. can put the whole business under *Asplen.* honestly I cannot conceive. My paper at June meeting will be on the Genus *Athyrium*.

Kindly let me know the title of your paper as soon as convenient & oblige

Yours sincerely

Please write me at Gayville, N. H. after the 15th of Oct. J. D. Hilbert  
The season here is late & I have found hardly any ferns as yet.

Savannah, Ga., Apl. 8 - 1900

Dear Mr. Davenport,

In accordance with your desire to see Mr. Druery's remarks on our Boston papers, I send you herewith the copy forwarded to me by Mr. Maxon. After reading it & transcribing what you desire from it please return to Mr. Maxon. You know his address - simply care Dept. of Botany, U. S. Natl. Museum, Wash.

I agree with you entirely about Underwood, and fear that he is going to cast discredit upon such good work as he has already done, by issuing a new edition of Our Native Ferns cast in the mould of his late paper on genera. Not only that, but it will injure American botanists abroad, or rather Amer. steno-botanists. His book represents that branch of the science at present, & from the fact that there is no other <sup>work</sup> of recent date, it will be taken as representing the consensus of Amer. fern students. Whereas, it represents Dr. W. G. S. far as I can learn no one else unless it be the Colum. University people who are his associates. Some time ago, I sent Jernan a copy of Our Native Ferns, & he was quite sarcastic about the adoption



of *Dryopteris*, as a generic name. It seems to me that Wud. hopes to drag us all along with him for reason of being the only one to publish a book on the subject. It is his intention to turn the whole of *Asplenium* over into *Athyrium* - a proceeding that is entirely unwarranted. I believe in the genuineness of *Athyrium* as a genus on the lines laid down by Roth, but that author distinctly differentiates it from *Asplenium* proper. So far as I am concerned, I would be glad to assist in writing a work treating of *Athyrifera* in a moderately conservative way, providing Wud. persists in publishing as it is now understood that he intends to, in July next.

We all hope that you will be able to get to N.Y. in June, or if not, that you will send a paper to be read & published. Maxon's *Asplenium robertianum* is to appear in Torr. Bot. Bull. & incorporated in Underwood's new edn - so I understand. I hardly know what to think of it. It is not like our eastern *Trichomanes*, nor is it like the var. *incisum* as described & figured by Moore. Still it hardly seems distinct enough for a new species. My *Trichomanes* major from Bermuda is a much better form for a new species than this.

I leave for home  
Sincerely yours  
B. D. Gilbert

Vol. 10.

1 Clayville, N.Y. June 7-1900

Dear Mr. Davenport,

As it is now only three weeks before the Fern Chapter meeting in N.Y., I thought I would write you & learn definitely if possible whether you could be with us or not. What with its being Torrey Day & all the botanists being at the Garden, it seems as if we ought not only to have a good audience but a delightful time. Can you not join us, & give us a paper, short or long as you choose? I am to speak on *Athyrium* as a genus. Now, I do not know whether you will agree with me in considering it a valid genus or not, but I feel certain that you would join me in opposing Dr. Underwood's plan of emptying all *Asplenium* into *Athyrium*, & leaving not an *Asplen.* in this corner. I can show conclusively that this cannot properly be done, even under the Rochester rules, & I expect some criticism of my paper. I very much hope you will be there to help me out, as the crowd of those who know anything of the matter will probably consist of "reformers" as Dr. Robinson calls them. If you can be there I would like to send you my paper (which is short) to look over in advance, in order that you might understand my position. I would also like to know on what subject you will speak

to us, & what views you will take. In that case  
I could make a few remarks on the subject  
after your paper.

Hoping to hear from you  
soon & favorably; I am

Very sincerely Yours  
B. D. Gilbert

Clayville, N.Y. Aug. 16-1900

Dear Mr. Davenport

Your welcome letter was received several days ago. I am heartily glad to learn that you have taken up again your fern manual & intend to push it on to completion. No man I recollect in the country is as competent for this task as you & yours. Perhaps the U. S. Nat. Museum may have a larger collection in No. of specimens, as they pile them up from every possible source, but they certainly lack some of your species.

Anything that I can do to help along in the good cause will be most cheerfully offered. For one thing, I can extend the range of some species as given by Underwood. I wonder that he is so faulty in this respect. The matter of nomenclature is so largely one

(2)

of personal opinion, in spite  
of what the reformers say, that  
we may very likely differ some-  
what, but it shall be an amica-  
ble difference & if you ask my  
opinion I shall feel free to ex-  
press it candidly. I say it is a mat-  
ter of personal opinion even with  
the reformers, & I believe I am  
justified in that statement  
when I find that even Dr. Mc-  
derwood in two instances dis-  
carded specific names in his  
4<sup>th</sup> ed<sup>n</sup> which had been used  
in the earlier ed<sup>n</sup>s, & has restored  
them in the 6<sup>th</sup> ed.

I have been over his various  
ed's pretty carefully since the pub-  
lication of this new one, & can show  
up a tremendous list of changes  
& inconsistencies. In fact I am  
writing a review of the book, but  
hardly know where to send it. The  
Botan. Gazette published Dr. Robin-  
son's articles criticising the "refor-  
mers." Do you suppose they would

take a look at mine? If you (3)  
can give me the address of the  
editor, I feel inclined to try him.  
There are plenty of papers in which  
I could publish it, but I want  
it to reach the botanical public  
not the general public. Of course  
the Torrey Bull. is out of the ques-  
tion. In fact they do not pub-  
lish reviews of any kind any  
more. I have given up the idea  
of including Mexican species  
in my CK list. I made out a list  
of them & it ran up to 330 species  
of which only 43 grow above the  
boundary. This would make an  
addition of 287 species to the U.S.  
list, & I fear that would enlarge  
the list altogether too much. So  
I shall only make a list of N. A.  
Pteridophytes north of Mex., but  
propose to include all varieties  
that have rec'd names. This is  
where I think you may be able  
to help me, as some varietal names

are almost sure to escape me. The whole thing will be on the alphabetical plan for the sake of quick reference, whether families, genera, or species or <sup>var.</sup> vari's. I propose to separate Polypodium and Athyrium, raising them from mere sections to full genera; & to accept Dryopteris, thus following the example of Dr. Asa Gray who first introduced it in this country. The argument for its use, as given by Dr. Wood in July Fern Bulletin, seems to me very good, altho a question might possibly be raised as to the exact meaning of "en parasol" as applied to the indusium.

I sympathize with you in regard to eyesight. My eyes have given me more trouble this summer than ever before & I am obliged to restrict myself to a very moderate amount of work each day - sometimes to none at all. I feel that age is creeping on. With best regards I remain Sincerely Yours  
Ed. Gilbert

Clayville, N.Y., Sept. 1-1900

Dear Mr. Davenport,

I sent you today some good specimens of *Acrost. aureum* & *A. lonarioides*, both from Jenuan, <sup>which you are to keep</sup> together with his description of the latter. You did not say that you wanted Nov. Am. specimens, so I supposed you wanted the two for comparison and Brit. Guiana specimens would answer for that, especially when they come from such an authority as these do. I have in my own herbarium specimens of both from Florida, the *lonarioides* coming from the U.S. Nat. Museum at Wash<sup>n</sup>. So I can vouch for it as occurring in this country. I feel certain you will regard the two as distinct species when you come to compare them together. If you had ever seen them growing in their native habitats you would make no question about them. Jenuan's descriptions differentiate them well. - You say you lack some



numbers of *Jamaica Ferns*.  
 I shall be glad to loan them to you  
 if you will let me know what  
 you want. I had those that were in  
 folio size bound, for fear they would  
 go to pieces. But all the octavo size  
 I have still in numbers, as that seems  
 to be the easiest way to use them  
 on account of their being mixed  
 in with other matter. The bound  
 vol. includes everything down to  
 one third of the *Asplenium*. If  
 you want that I can send it by  
 express, but the pamphlets can be  
 sent by mail. I do not think the  
*Jamaica ferns* will be put in book  
 form, but if he ever finishes his *West  
 India Ferns*, which has now progressed  
 as far as the end of *Pteris*, that will  
 probably be published as a book, being  
 much more inclusive than the  
*Jamaica Ferns*. Did you know that  
 Underwood has a work now in  
 course of publication that is to include  
*Mexico, The Isthmus & all the West  
 Indies*? He is certainly a great worker.

Sincerely Yours  
 J. D. Silliman

If there is anything I can loan you  
 either in specimens or books, don't hesitate to call on  
 me for it.

(2)

Do you remember the status of Aspidium? Swartz mentions as the first species under it (because the fronds are simple & he always began with the simplest forms) A. articulatum & A. neriiforme, both recognized now as vars of the same species. But two years later Cavanilles transferred both of these to his new genus Dicranum, on characters not mentioned or apparently noticed by Swartz. I can see no reason why an author has not as good a right to take the first species mentioned as the middle or the last, providing he founds his genus on new & unnoticed characters. According to my notion, the first species is no more sacred than any of the others. Very well, then Swartz' third species which stands next in line is Aspid. trifoliatum & the fourth A. macrophyllum, both of them netted veined. That then should be the character of Aspidium, it seems to me. A. lonchitis which stands fifth is a true Polystichum.

I hardly know of what Clute's book is to consist. He has formed a partnership, I believe with some artist, & the book is to be

illustrated somewhat after the style  
of "How to Know the Ferns", but will be  
more scientific. Chute writes that Dr.  
Underwood thinks of going to The W. I. this  
coming winter & may take him (Chute)  
along. So he is liable to be under Dr. U's  
influence to some extent & not so conser-  
vative as when he was completely out  
with the Columbia corps. Perhaps I  
ought not to make the suggestion, but  
it might be well not to send your  
MS. to Chute too freely for criticism  
under the existing circumstances. You  
know he is in N. Y. at present. Pardon  
me if I seem to you too suspicious.

Very sincerely Yours

O. D. Gilbert

I forgot to put in *A. polyclada* after all  
when done up the page, & have only just  
recalled it in reading over above letter.

It's hardly worth while to undo the page  
to send it.

I am wondering what you  
intend to do with *Botrychium* & *Ophioglossum*.  
Nearly everybody so far as I know laughs at the  
idea of making *B. dissectum* a species. And  
what do you think of *intermedium*? S. A. Eaton &  
I think it quite as deserving of specific rank as  
some of the others. I have good *B. matricariae* from  
central N. I. Shall you recognize all of New Britain's  
species of *Ophioglossum*? And will you include  
the fern allies? Do you approve of *Demissaedia* in place  
of *Dicranella*?

I shall send the ~~pkgs~~ by express from Utica  
on Monday. | Clayville, N.Y. Oct. 19/00

Dear Mr. Davenport,

I have just been selecting  
a lot of sheets from my herbarium to send  
you for inspection. They include a  
portion of my specimens of *A. cyclosorum*  
& var. *strictum*, *A. prodr. patulum* and  
*Karwinskianum* (?), *Athyrium acrostich-*  
*oides* and variety *tricypteroides* (you  
will find copies of Swartz's descriptions  
in the cover), my one specimen of *A. acrost.*  
*lamaroides* from Florida, & specimens  
of *A. aureum* from Trinidad & Jamaica  
together with a small root specimen  
from Florida. You must have plenty  
of *A. aureum* from Fla. so I do not  
send mine as tho they are fine com-  
plete fronds both ster. & fert. I also  
found among my duplicates today  
something I did not know that I  
had, viz. a beautiful young root spec<sup>n</sup>  
of *Ath. cyclos.* This is not mounted  
& can therefore be examined all the  
better, but I would like to have it  
returned with the sheets whenever  
you have finished with them. There  
is no hurry in the matter & I beg you  
to take your own time with <sup>them</sup> them.

I have also sent for your own herbarium specimens of the three typical varieties of A. gil. form. I make about 20 different varieties in Nor. Amer., but I know you don't want to be bothered with them, so I have sent the 3 var's which Newman felt like calling different species. Indeed they are quite as unlike, taken by themselves, as are many species, but we have the gradations to show that they are connected. Var. nolic is rather scarce. Var. chaeticum is commonest of all and was included by Prof. Eaton in angustum which is a different thing. Chaeticum as you will see might almost be called dimorphous. Var. incisum is the largest form & most deeply cut. I believe I will also put in my own specimen of var. polycladus Moore, which is the most pronounced of our "monstrous" varieties, as Moore calls them. It is rampant too, having been under cultivation several years. Now to notice some of your other points. I sympathize with you on Dnypteris. I always felt an antagonism toward it, but thought perhaps the evidence for it was better than it proves to be.

Clayville, N.H., Dec. 6-1900

Dear Mr. Davenport,

As it is some time since I have heard from you, I suppose you must be extremely busy working on your new book. A copy of "Rhodora" reached me the other day with your article on *Dicksonia* var. *cristata*, for which I owe you thanks. Am glad to see that you stick to *Dicksonia*. I have never seen any good reason for changing it. Lawson, the Canadian, was the one who made the change in this country, in his *Flora of Canada*. Do you know the book? In some ways I like its nomenclature very well. For instance he separates *Smithiopsis* as a genus from *Onoclea*, to which its root characters & venation seem to me to entitle it. But it seems perfectly faddish in Underwood to hunt up a name from "an obscure local publication in the Italian language," bearing <sup>the</sup> date of 1866, to supersede such an old & perfectly well known title as *Smithiopsis*. Also separates *Athyrium* from *Asplen.* & uses *Polystichum*. On the other hand, he uses *Lastraea* which is Booy's genus of 1824. What do you think of doing with these *Aspidiae*? Do you believe that

*Nephrodium* will hold? Richard's first two species you know were *N. acrostichoides*, which of course goes into *Polypodium*, then *N. thelypteroides*. I suppose this must be what we would call *N. thyrinum thelyp.* Desv., so that must be ignored also. But his third species is *Nephrod. marginale*, & as that is a *Nephrod.* in the true acceptation of the term, it ought to hold. As I showed you in a previous letter, Swartz's genus *Aspidium*, after taking out the first two species named, *articulatum* & *viridifolium*, which belong in Cavanilles' *Oleandra*, is anchored to *A. trifoliatum*, having the same round centrally fixed indusium as *Polystich.* but netted veins. Do, pray, let me know your opinion on this group, as it is the most difficult one to settle of any in the list.

Sincerely Yours

C. D. Gilbert

Mr. Clute you know is at work on a popular fern book with illustrations & I am getting up a list with all known varieties & we are both anxious to harmonize with your book as closely as possible. Hence I make the above inquiries. Mr. Maxon is getting out a list that will follow Underwood throughout, & we want to antagonize that influence.

Clayville, N. H. Jan. 1-1901

Dear Mr. Davenport,

Last evening I received the enclosed leaflet. What do you think of it? To tell the truth, I thought of describing this as a new species last fall, but learned that Dr. Rydberg had identified it with Mildé's *P. vulgare rotundatum*, so I dropped it. I have specimens of still another small form from the Rockies which is quite as distinct as this, & altho' I should hesitate to call it a different species, it deserves a varietal designation. It seems to me there is too much of an aggregate under *P. vulgare* in this country, and it would bear being broken up.

Another thing has occurred also since I wrote you yesterday. In the evening I rec'd a small pkgc



(2)

of ferns from Florida, & among  
them were specimens called  
Polypod. aureum that are different  
from any of that species I have  
ever seen or collected. They are only  
8 to 9 in. long & 3 to 4 in. wide, & have  
but a single row of sori on each side  
of the costae. The sori, instead of  
being borne at the apex of two free  
veins, ~~it~~ has only one vein to support  
it & this is true in every case with  
these specimens. They seem to agree  
very well with Kunze's descrip-  
tion of var. reductum. They certainly  
are not aureum proper. They were  
green when gathered, so I have them  
now in press, but will send you  
a frond in a short time.

Yours sincerely  
B. D. Gilbert

Kindly return the leaflet.

Clayville, N.Y., Jan. 5-1901

Dear Mr. Davenport,

After an absence from home of two days, on my return I found your pkg here awaiting me, & I lost no time in attacking it. I read it thro' entirely the first day, in order to get the general drift & effect, and am now going thro' it again with greater care, making notes which I shall write out when completed.

Altho I knew that our views harmonized pretty well, I was really surprised & delighted to find that we are of the same mind in so many points, there are but very few points in which I should differ from you, & even those are not of great importance. The greater number of suggestions which have thus far occurred to me relate to slight changes in the language, to render it a little more clear perhaps or more homogeneous. But of one or two of the more important suggestions let me speak here.

It seems to me that it would be much  
(over)

more in accordance with your argu-  
ments on the rootstock, & venation to  
recognize Strethiopsis as a separate  
genus, as Eaton did in Gray's Manual.  
There could hardly be a more striking  
difference than that between the free  
venous rhizome of Oncoclea sensibilis  
with fronds issuing from it at separate  
points, & the root crown formed by the  
stipes of Strethiops. An equally striking  
difference exists between the finely  
anastomosing venation of Oncoclea &  
the perfectly free venation of Strethiops.  
Altho Underwood shows that this had  
been used as a generic name twice be-  
fore Willdenow, yet neither of these does it  
seem to have been accepted by botanists  
& Willd's was the first formal separa-  
tion of Linn's Samolus Strethiops which  
gained currency.

I think you do well to use  
"sporophyll" & "sporophyte". Your book is to  
be educational & scientific, & it is not  
worth your while to go out of your way  
in order to cater to popularity. In such  
work as your Leaflets you would naturally  
not use these words, & the Leaflets are  
especially intended to be popular.

With regard to Dicksonia, I hardly  
know my own mind. It has always  
seemed to me that Baker has made a hetero-  
geneous assemblage of species under this

genus, & Hooker does the same in (3)  
his Species Fil. John Smith however  
makes his *Pitobolium*, which is in every  
instance a *Demustaedia*, a distinct  
genus from either *Dicksonia* or *Cibo-*  
*tinum*, & includes in it our *punctilobula*.  
Not that I think his genus should be  
adopted. I only quote it to show what  
was his idea of our species & others allied  
among which was *rubiginosa*.  
Taking merely the *indusium* as a  
character, <sup>in true</sup> *Dicksonia* it is bivalved,  
in ours it is cup-shaped. Jenman says  
of *D. rubiginosa*, "Rootstock wide creep-  
ing, stipites scattered, x x In shade it  
reaches 10-12 ft. high." & that is my own  
recollection of it. Do you consider  
Jenman perfectly trustworthy author-  
ity? I have to confess that the more  
I investigate, the more shaky I  
become about putting our species in  
with a lot of tree ferns whose *indusia*  
are so decidedly different. Take your  
own specimens of *D. antarctica* or  
*Culcita* & compare the *indusia* with  
those of *punctilobula* & ask yourself to  
decide honestly whether they are enough  
alike to place them all in the same  
genus. If you are like myself, you  
will find it difficult to answer yes.  
And if it is not *Dicksonia*, then it is  
certainly *Demustaedia* Bernh. 1803 Ad.

Now I will quit for the present.  
But I want to thank you heartily  
for the beautiful print of Haushalter's  
Virgin which came as your New Year's  
greeting. It is so lovely that I mean to  
have it framed. What wonderful eyes  
this madonnine has. The whole of her  
beautiful face peering into futurity  
is different from that of any other  
Virgin I have ever seen, & I have wan-  
dered thro many of the best European  
galleries too. Thank you for something  
that will give me pleasure every  
time my eyes rest upon it.

What a thriving business in species-  
making young Maxon is doing now-  
adays. Have you seen the Decem. Torr.  
Bull.? In it Maxon has an article on  
Alaska ferns with a new species of Dry-  
opteris, near to fragrans. It is founded  
on two plants only, with no known  
duplicates anywhere.

I obtained a copy of Jan. Rhodora  
with your new var. of *A. ebenum*.  
The cutting does make it resemble *A.*  
*lacustris strictum* Brack. very much.  
It certainly is a novelty among our native  
species & var's. Guess I'll have to extend  
my epistle somewhat after all, as I want

5

to tell you about Clute. He wrote me  
some time ago wanting to go into part-  
nership with me on my list. I did not  
take to the idea, as I propose to introduce  
some new features & prefer to have what-  
ever credit may arise from them as  
my own. I want a free hand also &  
do not care to be hampered. Of course I  
put it mildly to him, merely saying  
that I did not much believe in  
partnerships in scientific work. So  
yesterday I heard from <sup>him</sup> after a two  
weeks wait, saying that he proposes  
"to run a list of ferns in my new book"  
which is coming out in March. He also  
says, "So if I come out first, it is your  
own fault. Forewarned is forearmed."  
Now, he knows that I intend to publish  
all known varieties of this country, so  
he will probably take up the same place.  
But fortunately I have not given him  
any further inkling of my intentions,  
so I think he cannot take the wind  
out of my sails very much, even if he  
precedes me in publication. He will  
undoubtedly publish a conservative  
list, such as he knew I intended to,  
as Maxon's will be radical & would not

agree with Clute's book, in which, he says, "I have adopted a very old fashioned nomenclature, even to *Aspidium*, since the book is for the general public". Naturally, Underwood is "very anxious to have me follow his nomenclature", but he cannot see how he can do it.

I have read your paper on *Ophioglossum* with great interest & agree with your conclusions quite fully, but I can understand that an editor who does not publish a controversial magazine might not be willing to use the article even if he agreed with every word in it, as I am inclined to think Clute does. Of course he doesn't vouch for the accuracy of everything he prints, but it might offend a certain class of readers & lose him subscribers. So you must not judge him severely. The fact is, I have not finished my criticism on Underwood, because I knew it would be almost impossible to get it published. If there was some publication that antagonized Columbia, either scientific or secular, one could get such an article taken, but ordinary publications are unwilling to accept it.

Very sincerely yours (at great length)  
B. J. Gilbert

Have rec'd a letter from Brit.  
Colum. in which the writer says:  
"Have just secured several good  
roots of *A. cyclosor.* with everything  
attached, & can find no sign of a  
rootstock other than I sent you.  
Those heads spring from a dense  
mass of fine, fibrous roots, & nothing  
more. I will send a complete  
representative sp. by mail shortly."  
When it comes I will forward  
to you after close examination  
myself.

L.



11  
Clayville, N.S., Jan. 9-1901

My Dear Mr. Davenport,

I have at length finished my notes on your M.S. I shall do them up to go to express today, as I know you are anxious to get on with the work. I am ashamed of both the quality & the quantity of my notes, & fear you will think it hardly paid to send ~~them~~ <sup>these</sup> on the M.S. You must excuse the freedom I have used in criticising & making suggestions. That, I have taken for granted, was what you sent me the M.S. for, & I have spoken without hesitation whatever occurred to me on reading the M.S.

As I wrote you before, our ideas harmonize very closely. I have already written you concerning some of the most important points, & these are not repeated in the notes. When you have looked over the latter carefully & compared with M.S., I trust you will let me know how they strike you.

You speak of Mills - I suppose having returned, & the probability of his sending you his collection - to name Jamaica, so I doubt if he will have anything that is new to me. But if you

find anything particularly good,  
I would be obliged if you would let me  
know, so that I can obtain specimens  
if possible. Out of 475 sp's or thereabout  
known in Jamaica I have about 360,  
& many of the rest are things that were  
collected only once by Swartz or Wilson  
40 to 100 years ago & over, & never seen  
since. So it is not likely that in a six  
weeks trip to the island Killspough has  
picked up much, if any, material that  
I have not already. If I can save  
you any time in determining the  
species, don't hesitate to ask me.

Sincerely Yours

G. D. Silberk

Are you going to be your own  
publisher of the fern book?

If not, who is your publisher?

I hardly think that I shall let  
Clute issue my list, & as I expect  
to pay for it out of my own pocket  
I shall go where I can get the most  
reasonable terms.

I enclose a drawing sent me by  
my correspondent Mr. Hill, to show  
how *Asplenium* grows. You see the swamp  
level & the two clumps of the fern. Kindly  
return same & oblige.

1 Clayville, N.S., Jan. 10 - 1901

Dear Mr. Davenport,

In a letter just rec'd from Oute he says: "Underwood has just written that he has seen Cavanilles' original description of Lectaria, since writing his Genera of Ferns, and that it antedates Aspidium by fully two years. This is entirely independent of any principle of generic types, since he made Lectaria monotypic. x x This was published in 1799 in Annales de l'histoire Naturelle (Muz. de Decembre de 1799) p. 118."

This does not accord with Lectaria as given in Urd's Genera. There the date of Lectaria is given as 1801, & the first species is Polypodium pinnatodes, followed by P. trigolatum & others such as P. filix-mas, & P. filix-foemina. That is certainly not monotypic. But suppose that W. is right - & that Lectaria was pub'd the middle of Dec. 1799, with only one species given, & that Polypod. trigolatum. What can you do? You say that Dr. Christ maintains Aspidium. Do you think that he knew of Lectaria & if so, does he say anything about it?

*Aspidium* seems to have been first pub-  
by Swartz in Schrader's Journal, 1800,  
Do you think that is the very first mention  
of the genus in print? At ~~least~~<sup>least</sup> it is only  
a few months previous to *Tectaria*, not  
two years. In Swartz' Synopsis, 1806, he  
gives as synonyms *Polypod.*, *Polystichum*,  
*Athyrium*, *Tectaria* & *Nephrodium*,  
showing that Sw. knew of Cavanilles' genus  
at that time. Then comes the question,  
what was Cav's characterization of the  
genus? Was it anything like Adanson's  
*Dryopteris*? Description one thing & type  
another? If Und. is right, the only way  
that I can see to maintain *Aspidium*  
is to throw precedence to the winds  
& stand on the century old use of *Aspid.*  
Yes, there is another method, viz. to adopt  
the 50 years limit of the Ferns. Did  
anybody adopt the use of *Tectaria* within  
50 years after its original publication?

I thought it best to let you know  
of this at once, so that you might act  
understandingly. At most, it would affect  
only two species in our flora, viz. *trifol-*  
*iatum* & *juglandifolium*, for I do not  
imagine that you intend to adopt Und's  
*auriculatum*. It would be just as sensible to divide  
up *trifoliatum* because of the small, heart shaped fronds, which  
nevertheless bear fruit, & make 2 or 3 species of that.

Sincerely Yours P. D. Gilbert

Wayville, N.S., Jan. 29/01

My Dear Mr. Davenport,

I regret exceedingly to learn that you are again having trouble with your eyes, & especially that an operation has been necessary. But I trust that it has proved a success & that you are going to be less hampered by your eyes in the future.

I am writing more particularly today to tell you that I have prepared an article for the April No. of *Penne Bull.* on the varieties of *Botrychium ternatum* in Cent. N.S. It is based on a collection of these plants made last October by Dr. Haberer of Utica, numbering over 450 specimens. They comprise four varieties, viz. *obliquum*, *dissectum*, *intermedium*, & what I have named var. *Onoidense*. I send you herewith what my article says about this form, and you can make such use of it as you see fit, if you choose to include it in your book. I shall also send you a specimen.

Quite recently I received in a small lot of ferns from Costa Rica

what seems to me to be genuine  
Nephrod. Karwinskyanum. You  
know that Shimek (whose book I have  
recently obtained) gives it as among  
his Nicaragua plants. My specimens  
are young, have very small sori, do not  
show the indusium at all plainly,  
& have pinkish costae & rachis, a fact  
which nobody seems to mention in con-  
nection with this species. Even Shimek  
reports that "When growing, the stipe  
was green, hairy & brown-scaly at base".  
I can make nothing else out of my  
specimens however, as they have the  
decidedly deltoid shape, are cut as des-  
cribed & are herbaceous & thin in texture.

Also they are about the right size, 12-15 in.  
Now, if this is correct, I withdraw  
all I had to say about the specimens  
from Arizona. Those are not Karwinsky.  
If these are. Then comes the question, what  
are those? I can't see that they agree with  
saturatum at all. Wish you would look  
them over pretty carefully before returning  
& tell me how they compare with yours  
from Arizona if you have any.

Clute informs me that he has rec'd many letters  
from Ruderswood trying to convince him on nomen-  
clature, but he will not be convinced. Clute writes, "I will  
cast in my lot with Davenport & you." So there will be no  
one but Maxon to side with Wed. & Clute thinks he may even  
marriage Maxon. Sincerely Yours B. D. Gilbert

Please let me know how the var. *Onicoides*  
strikes you.

Clayville, N.Y., Feb. 13-'01

Dear Mr. Davenport,

Enclosed I send you a copy  
of the last paragraph of introduction  
or preface to my list of Steridomyces.  
I would like to have you look it  
over & let me know whether you  
are willing that I should publish it.  
I think I have used none of the illus-  
trations that you use - if I have  
please erase it or them. Do if you  
think it would interfere in any way  
with ~~your~~ the matter in your book,  
I will suppress it entirely. My object  
in writing it was to explain why  
I revert to the names formerly in use.  
I don't wish people to think I am doing  
so out of any spirit of contrariness. I  
really believe in ~~ways~~ your principle  
& know that it would save changes & con-  
fuse to stability.

I am also sending by this mail a  
specimen of my Bot. term. *Onicoides*, not  
because I have any idea that it will  
be new to you, but in order to show  
you just the form upon which it  
is founded. Dr. H. collected over 450  
specimens of the different varieties

and this stood out as a very distinct  
but not very common form. It is  
the least cut of all the ternate var's.  
The specimens (407 in all) were easily  
divided off into the four var's, obliquum  
dissertum, <sup>trifid</sup> intermed. & Oneidense.

Many thanks for your photograph.  
It is certainly excellent, & no one  
would suspect from it that there  
was any <sup>trifid</sup> matter with your  
eyes. Clute writes that it has already  
been sent to N.Y. for engraving, along  
with a drawing of the basal pinnae  
of my Botrych. I agree with you that  
Dr. Underwood's portrait in last  
number was fine, but no better than  
yours is likely to be. Clute wants my  
portrait for July number. Will return  
your compliment with one of my own  
photo's one of these days.

The Madonna of the Flower & Thorn  
hangs in front of me, just back of my  
desk in a pretty gilt frame with mat  
cut the shape of the picture itself. It is  
really a lovely thing.

As I understand it, Maxon owes his  
position primarily to Clute who was at that  
time connected with N.Y. Bot. Garden, & who pro-  
cured Britton's & Tuck's influence in his favor,  
So you see he can't help himself very well. He is a nice  
young fellow & I think he may become more con-  
servative as he grows older. Cordially Yours  
G. D. Silbert



Clayville, N.Y., Mar. 12-1901

Dear Mr. Davenport,

Herein you will find a copy of my list of U.S. Kephrodia which I would like to have you look over and correct or criticize. My chief objection in sending it is to get your consent to appending your name to certain sp's & var's that have to be changed over from *Rapid.* or *Dryop.* I feel that it is due to you that all of the older names at least should be credited to you, even if my list comes out before your book, such, I mean, as *conterreus*, *strigosus*, *cristatus*, *Clavator*, *rigidus* or *retusus*, and *mitis* *glabrus*. But of course I must have your consent for doing so. And will you please tell me what to do about *Mexicanus* & *patulus*? Shall I include them both? How can you tell me the author of *filicinus incisus*? When I made note of the name, I neglected to add the authority or place where it was put? And what about *marginalis* *trullae*? I have a notion that I have seen somewhere a note by you to the effect that it was something else. Another thing. I have just now the forward specimens of *Asplen. Trichomanes* in my possession. Among them are 2 or 3 sheets of sp's from Mexico all labeled *A. T. proliferum* Dav. Is that right? In Torr. Bull. T. 6., p. 307, issue of April, 1879, there is an installment of Eaton's New or Little Known Ferns, in which he descants upon

Floridian things. Among them is *Asplen. Ebcen. prolif.* which he talks about as if new, & to which he appends no author's name, thus leaving it to be inferred that it is his own. Now, which one of you two was first to use it? The earliest label that I find in the Gray Herb. bearing the name is Pringle's of 1845. But now I see; your name is repens, Eaton's is proliferrum, altho they are evidently the same thing. That is what misled me.

Allow me a few words more about Bot. Siteruatum. It seems to me that there are three very strong points in favor of this being a distinct species. First; its form & outline & whole appearance are so distinct that a mere novice could pick it out at once if mixed in with a lot of other forms. So far as outward appearance goes, it is as distinct from anything else as a *Botrychium* is from an *Arenaria*.

Second, it is a purely southern form not found north of Mason & Dixon's line. Our northern forms *obliquum* & *dissectum* are often found in the south, but *siteruat.* has never been seen growing in the north.

Third, it matures its spores early in the spring, while our forms do not mature until late Sept. or Oct. This seems to me a very important point.

Now, what three points of specific character could be found stronger than these three combined? If you elect to take your stand on the general plan of structure, then I don't see where any specific lines can be drawn in the genus, unless perhaps *Linaria* & its congener *breale* be excepted.

(2)

You would have to do away with *Virginiana*, & *laevigatum*, & *dancifolium*, &  *japonicum* as species, & mass the whole body in one. What is a species? Rossieau called it "the perennial succession of similar individuals in continued generations," & Dr. Asa Gray accepted & adopted this definition. Have you any doubt that *Bot. eternal.* reproduces itself in practically the same form year after year? We know that it has done so for more than 100 years & the specimens are still in existence to prove it. The ternate form is in general distinctive of all *Potamogetonia*, just as the single undivided leaf is of all true *Officinalis*, & the pectinate dichotomous fronds of all *Heckeria*. But this does not prove that there is only one species in each of these genera. Minor modifications are accepted as marks of specific difference, & so I take it they must be in *Potamogetonia* also. You say that your friends "could not wish you to be otherwise than true to your sincere convictions." My answer to that is that when your friends are practically unanimous in a judgment which may not agree with your convictions, (as they surely are in this case) it would be wise for you to review the evidence & try to make your convictions agree with theirs. I should not write you so at length in this matter, if I were not very anxious that neither your friends nor your opponents should be able to say that your judgment was more or less affected by prejudice.

And I feel free to say these things to you myself because you know that I have no other motive than friendship for yourself & I desire that you should not take a position which the greater number of scientific men will discredit.

In regard to *Bot. tenebros.* there is of course a reasonable ground for difference of opinion, altho' I am afraid you have not a very good series of the species to form your judgment on. There must however be differences of opinion on some things & this is one of them. *Und.* & *Wood* entirely ignores your *N. crist. marginata* & you will doubtless ignore some of his things, but these are matters of dispute, while *Bot. biternat.* is well nigh universally received. *Und's Bot. occident.* seems to me to come very close to our *intermedium*.

If you find a simplex-compositum to spare I hope you will lay it out for me.

Very sincerely Yours  
G. D. Hilbert

My list is fast approaching completion. It will be about  $\frac{1}{2}$  list &  $\frac{1}{2}$  Appendix, in which a lot of new varieties will be described by myself & H. A. Eaton. That will give the publication a more permanent character.

Clayville, N.Y. Mar. 14/01

Dear Mr. Davenport,

Many thanks for the photos of Coville's sheets of *Bot. panicolum*. I have put them under a magnifier which brings them out very distinctly. Judging from these photos, I should say there was no doubt about their being a good species.

Glad you have been able to trace out *Bot. mat. fol.* & *B. neglectum*. I had little doubt about the matter myself & should not have adopted the latter on Wed's statement alone, but am very glad that you have obtained Eur. spurs to make the matter sure. I have plenty of Eur. *Lunaria* & *matricariae* but no *mat. fol.*

Mrs. Horton has sent me some fragments of your new var. *Hortoniae* which seems very distinct & very pretty. She promises better specimens next summer.

Sincerely Yours

B. D. Gilbert

Blayville N.J. Mar. 28

Dear Mr. Davenport,

I knew long ago that celsa was only Clinton.  
I intended to give it only as  
a synonym of that.

So with M's Dry, aquilon.

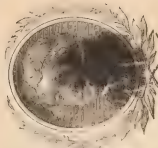
It is only a form of fragrans.  
I have specimens of that from P.D.  
even less early than M's, no  
more reduced at base, with  
same rootstock & as far  
as one can discover from  
photos, like it in every way  
except some dif. in cut-  
ting of pinnac. I am in  
great hurry to get this to  
mail.

Yours truly  
J. D. Silliman

12  
POSTAL CARD - ONE CENT.

UNITED STATES OF AMERICA

THIS SIDE IS FOR THE ADDRESS ONLY.



Mr. George E. Davenport  
No 8 Hamilton Place  
Boston Mass

Clayville, N.Y. Apr 5/51

Dear Mr. Davenport,

Your Supplement leaflets  
came this morning & were just  
what I wanted. As I suspected  
I have the longinucronata but  
not the compacta.

I am again bethinking over  
Dicksonia, not as to the generic  
but the specific name. If we  
carry out Traj's rule it seems to  
me we must say Dicksonia  
pubescens Schkur, as he was cer-  
tainly ahead of Willdenow in  
calling it Dicksonia. Willdenow  
even quotes D. pubescens & Schkur's  
description of it, under his pilosius-  
cula, which I notice you use. Have  
no books here which give me the  
date of Schkur's Pilices, but his botany-  
ical Handbook in 3 vols. was published  
from 1791 to 1803, this Carices in 1806.  
But the mere fact that Willd. quotes  
him shows that S. preceded W.  
Now we must be consistent, or  
we shall be unmercifully criticised.



Please let me know your opinion  
at once, as I am about ready to  
go to press. This matter only occurred  
to me today or I would have  
written sooner.

Kindly mail me a copy  
of Catalog of Dav. Herb. latest ed.  
& send bill for same.

Sincerely Yours  
B. D. Gilbert

Clayville, N.Y., April 12/01

Dear Mr. Davenport,

Your letter is rec'd enclosing Mr. Fernald's which contains only what I knew before. I have Willd's Sp. vol. 5, & under Dick. pilos. he cites his own Enum. & then Schkur's Crypt. for D. pubes. giving page & Table or figure. He also cites Polypod. pilos. from Muhlent. in litt., showing where he got his specific name, which I am glad to see he was honorable enough to use. But a funny circumstance is found in Pursh, who calls the fern Aspid. punctilobum & quotes from Willd. for it. And Willd. does give that species, quoting for it both Swartz & Michaux. But Sw.'s name was A. punctilobulum, for which he also quotes Michx's Nephrod. punct. The gist of the matter seems to be found in Willd's note to D. pilos. He says: An Aspid. punctilobum supra p. 279 dubie indicatum, eadem sit filix alia ad designandum relinquo? quum pinnulae neque sint recurvatae neque pubescentes. To the Dicksonia he appends v. v., but not to the Aspid. Now, as I have

said, Swz. quotes Mex. but not Schk. and it is almost certain he would have done so if Schk's species had been pub<sup>d</sup> before 1806. In his preface he mentions Schrader, Gleichen, Hedwig, Sprengel, Bernharti, Willdenow & Schreber, but does not seem to know Schkur. So it is not probable that Schk. had published any of his Cryptogramia at that time.

As the matter stands it seems best as you say to hold to D. pilos. Willd. and let some one else prove us wrong if they can. As Willd. asserts, the fern is not pubescent but pilos<sup>e</sup>, showing that even in those days they gave pretty definite meanings to their scientific terms.

Thanking you very much for your trouble & information,

Yours sincerely  
G.D. Gilbert

Prof. Trelease has sent me a separate of his, describing & figuring a new var. of *Pellaea atropurpurea*. It is in time for The List.

I see that Swz. does cite Schkur under *Acrost.* several times, also under *Meniscium* & *Polypod.* & very freely thro *Aspid.* as far as T. 63. There he seems to stop. But Schk's table for Dicts. was 131. So he evidently had not progressed so far in 1805.

species from north of the Gulf States  
& East of the Rockies, to accompany  
his book. I can't see what earthly  
good it will do his book to include  
such a list, inasmuch as Neeson  
has done the radical & I am doing  
the conservative side. He has sent  
me a proof, with the cool request  
that I furnish him with any  
vars that are missing, so that he  
will not be "out of date"! I have not  
been working on this task for a year  
past just to give him the credit of  
being up to date. I propose to have  
that credit for myself.

Cordially Yours

P. D. Gilbert

Clayville, N.Y., May 20/01

Dear Mr. Davenport,

My list is now ready for the printer. It has been my desire to be able to vouch for as many species & var's as possible from my own herbarium. There are a few things however which I lack, & these will be starred in the list. But before final publication I am making every effort to fill up the gaps, and I am again going to appeal to you. If you can help me with any of the following things I shall be everlastingly grateful & will respond with foreign specimens which may be acceptable to you. And I would be exceedingly obliged if you could let me know about them as soon as possible. I will put the names on a separate sheet so that you can put it in your pocket or note book separate from my letter. I have already written a short article on what seems to me one of the most unsatisfactory features of Mason's list, viz. his treatment of varieties. I haven't stepped

outside of that, except at the beginning  
to give just one hit at the general  
nomenclature. I am thinking that  
you will pay him a compliment  
on that in Rhodora perhaps. I may  
send mine to The Bot. Gaz. if I can  
conclude to publish it at all. Inasmuch  
as I am to issue a list myself, I  
do not feel quite certain whether it  
would be good taste or good judgment  
for me to have anything to say about  
Maxon's list. Wish you would let me  
know what your opinion is on the  
subject. Maxon has given only 16  
vars among the ferns proper. Some  
are things which ought not to be given  
at all, which even Underwood has  
ignored. On the other hand he omits  
vars that are much more noticeable  
than many that he gives. So my posi-  
tion is that his treatment of vars is  
arbitrary, that he does not feel the  
same sense of responsibility in  
dealing with them as he does in deal-  
ing with species. And I show up his  
multinamed var. of *Pol. vulgare* in a way  
to show his ridiculousness. So I am not  
quite certain whether it would be good judg-  
ment to publish it.

Chute has also made a list of

Clayville, N.Y. May 23/01

My Dear Mr. Davenport,

Your letter just rec'd. I am more than pleased with the prospect of species which you hold out to me. They are more than I had dared to hope for.

Do you think that The Plant World is the right place to send a criticism of M's List? You know it is edited by Dr. Pollard & one or two more of M's intimate friends. Would they give it place? Why not try The Bot. Gard. which I have no doubt would publish it, & soon too. I shall follow your advice & not publish my own screed. I send you herewith the only draft of it which I have made. Perhaps it may suggest something else to you. If Dr. Christ has sent any notes that it would be advisable for me to see before publication I hope you can send them to me.

very soon, as part of my list is already in type. I can yet however add to or subtract from it at my pleasure.

Sorry to bother you at such a busy season, but it so happens that I am just in the position that what is to be done must be done quickly. You will appreciate it, I am sure, & pardon me for troubling you.

Sincerely Yours

A. D. Gilbert

I came near forgetting to tell you that all my roots of *Athyr. cyclos.* from Brit. Colum. are coming up finely this spring. And the young fronds are as different from any of the *A. filifera* forms as they well could be. There is hardly any stipes, & that together with the rachis is thickly covered with very large light-brown scales,  $\frac{1}{2}$  in. long &  $\frac{1}{8}$  in. wide. The pinnae divide down to base very much like those of *Struthiop.* In fact it might be taken for that species on a cursory examination, if it were not for the scales which are larger & darker than those of *Struthiop.* I am delighted with it.



Clayville, N.Y., June 4/01

My Dear Mr. Davenport,

Your beautiful & extremely acceptable pkg of ferns reached me safely, & I thank you most heartily for them. I have been delayed a little in answering & acknowledging them by a short absence from home.

About the same time, I received a fine pkg from Prof. Lemmon, quite unexpected. It contained splendid root specimens of *Polyst. Lemmonii* and *scopulinum*, together with excellent fronds of *Californicum* & *aculeatum* var. *angulare*. All of these, together with what I had before, make a splendid suite for study, and from what I have seen of them I am much inclined to retain *Californicum* as a species and make both *Lemmonii* and *scopulinum* varieties of it. When placed side by side there is a striking similarity between them, but of course in a short letter I can hardly enter into an analytical description. If I choose

The above course, I shall make some notes in my Appendix, giving reasons. I have stopped work on the List in order to settle this matter in my own mind. That *P. Lemmonii* belongs in the same category with *Californ.* & *acopulium*. I am pretty well satisfied, & it is more closely allied with the former than the latter. I have never seen true *neohrioides*, but have given up the idea of our fern being that species. Its affinities with its near neighbors are too close for it to be anything but a relative of theirs.

*Pell. Wright. compacta* is very pretty & seems to be a very distinct variety. *A. Nichol.* seems to be pretty close to *emarginatum* except for its pilose character. *Ophioglos. cristatoph.* was much more appropriately named *bulbosum* by Michx. and it is a pity that name could not have been retained. Has *Polytr. Swartzii* ever been found elsewhere than on Key Largo in the U.S.? I find no other references to it.

I have copied Dr. Christ's original letter & enclose both it & the translation herein. The latter is correct, but after all, one gets a little different idea from the original.

Cordially & gratefully Yours  
Benj. D. Gilbert

Clayville, N.Y. June 21/01

Dear Mr. Davenport,

Your letter with Coulter's enclosed is just rec'd. I was a little "previous" it seems, with my P.O. card sent this morning.

Well, this is what we have to expect, I suppose. The Underwood people are "in the saddle", because they have the influence & authority of the government behind them, as well as of Columbia Univ'ty. If Harvard will only stand stiff, as I judge from Fernald's article it will, we can make a good fight notwithstanding. I think I can see what Coulter's objection to your article is. He thinks it is too much of an expression of your personal opinion about species, without facts in support of that opinion. I recollect aright, you simply stated that according to your views Tectaria was only another designation for Aspidium, as also was Chlorophlebia, but you gave no reason

why they should not be used, other  
than your own preference for  
Aspidium. At least, that is my recol-  
lection of the matter. And the same was  
true in several other cases. But in  
those instances where you did enter  
into details, as in the Botrychia for  
example, you certainly adduced good  
reasons for your differences of opinion.  
But if Fernald is to answer Under-  
wood, he can give him an Oliver  
or U's Roland, and I hope he will  
"use or not spare". If you send  
your article to some other publica-  
tion, it might be well to strike out  
all statements of personal opinion  
unless backed up by facts & arguments.

I do not take Rhodora & should  
be very glad to see the June No. There  
are so many botan. publications  
nowadays that I can't afford to  
take them all.

Sincerely Yours  
J. D. Gilbert

Clayville, N.Y. June 28/01

Dear Mr. Davenport

Thank you very much for  
the blue prints of Hortoniae.  
I have a couple of partial fronds  
of this from Mrs. Horton herself.  
She <sup>also</sup> sent me a little plant of it  
which she had been nursing  
in the house, some time ago.  
I set it out in the open air, but  
it droops & withers & seems likely  
to go to pieces altogether.

Well, Clute's book is out  
at last, & is certainly a laud-  
some volume. If one chooses to  
be critical, one can of course  
find faults, but for what it  
purports to be, viz. a popular  
treatise, I think it is highly cred-  
itable. I have written a short  
notice of it for the Utica Daily  
Press, of which I will send you  
a copy when published.  
You undoubtedly under-

an improvement in your review  
of Maxon by the change in your  
statement, & it seems as if it ought  
to satisfy Mr. Coulter. I shall not  
be surprised however if he either  
declines it again or cuts it down  
to suit himself. I don't know that  
he is particularly favorable to the  
radical party, but as the editor  
of a magazine he doesn't want  
to stand in disfavor with either  
side.

I don't think I have yet  
thanked you for the June Rhodora,  
containing the Katahdin articles.  
It is a fine number, and I am  
satisfied that if the editors would  
enlarge their scope somewhat,  
not confining their range wholly  
to New England, it would very  
soon be the leading botanical  
publication of the country.

Sincerely Yours  
B. D. Silsbee

Clayville, N.Y. July 20/01

My Dear Mr. Davenport

Before you this reaches you you will have rec'd the long-delayed list. I hope it may meet your approbation. Your card of 18<sup>th</sup> inst.

came last eve. I was disappointed in Underwood's reply. It was sharp enough, - in fact too sharp to suit moderate people. And I can't see that he made out a case for Bob neglectum at all. His own words might well be retorted upon him viz. "It would appear from his article that he had seen the only European B. meati-fol. that Amer. eyes had rested upon." To say nothing of yourself (thus leaving Hamlet out of the play is it were), what about Prof. Eaton? Did he publish B. meati-fol. without seeing European specimens? Plenty of them too, I imagine. Oh, Underw. has gone rank crazy over some of these things, & he shows that you

substantial criticism irritates  
him.

Glad to hear that Clute  
is to publish your article. Let me  
know how many of my lists you  
would like & they are at your  
service. I am pretty busy just  
now, but will write more later.

Sincerely Yours  
D. D. Gilberk



Clayville, N. H. Aug. 20,  
Dear Mr. Davenport,

There will go by mail with  
this a little *ptige* of the list.  
I had to wait till I got time  
to correct them, as I have done  
all those sent out since the  
omissions were discovered.

I left out *Equisetum pratense*  
& *Asplen. montanum*.

They were in my original  
M.S., but in some unaccount-  
able manner were dropped  
out & the omission was not  
noticed. I send ten copies, but  
if you want more you can  
have them.

Had a letter yesterday  
from Prof. Underwood taking  
exception to certain things & saying  
he was going to write up a matter  
in which both Maxon & I are at

fault. I can hardly imagine  
where Max. & I both should  
agree in antagonizing Underw.  
I wrote him I had reasons that  
were satisfactory to myself & those  
who thought as I did, for my acts,  
but could hardly defend them in  
a letter. On Aspidium I am ready  
for him. Whether I am sufficiently  
posted on Nephrodium to do so  
or not, I am not certain. He  
thinks of coming up here to see  
my herbarium & I shall try to be  
ready for him by that time.  
If you think of any special  
points please send them on.

Have not yet heard from  
Hill but am expecting a letter  
every day & will write you as  
soon as I get the specimens  
which I feel sure will come.

Yours sincerely  
G. D. Herbert

Clayville, N.Y., Aug. 20/0,

My Dear Mr. Davenport,

Your letter of 9<sup>th</sup> inst. was read a long time ago, and would have been answered sooner but for the fact that I have been quite ill from an acute attack of dyspepsia, which is able to make one about as miserable as anything not in the list of mortal diseases.

Let me take up the points in your letter in their order. I think you are wise not to attempt to combine a notice of my list with one on Mr. Mason's. It might lay you open to the charge of prejudice, at least it would be more noticeable if published in that way. I have not seen W's notice in the Plant World which I do not take. Can't afford to take all these little publications, each affording a source of ventilation for a certain clique of writers. You are in error in calling it "Cutler's Plant World." Cutler's new publication is called "The American Botanist." I took the *Bot. simplex* var's from Eaton's *Ferns of N. Amer.* as I supposed,

but on referring to my original notes I find that they read as follows:

subcompositum Lasch.

simplicissimum Lasch.

incisum Milke

compositum Lasch

How they got changed I cannot tell.

In such a vast amount of detail, it seems almost inevitable that errors will creep in.

As regards *B. tenebrosum*

I do not consider Dr. Christ as any judge of its rank. He has never seen the plant growing. Dr. Haberer, one of the best botanists I know, was inclined to think it might be a depauperate form as you do, but he discovered the plant growing in this region last June & is a firm convert to its specific rank now. Its time of fruiting, its habit of growing two thirds sunk in the ground, as well as its size & form have convinced him that it is a good species. On the same sandy knoll he found *B. mat-fol.* just beginning to fruit, where *tenebros.* was fully mature & shedding its spores. No, I could not accept Dr. Christ's judgment on a thing which he has never seen growing in its native surroundings. - I went to Alder Creek last week & got some nice specimens of *Lycopod. tristachyum* C. Koch, (*L. Chamaecyp.*) Do you want any of it?  
Sincerely Yours F. D. Silliker

Clayville, N.Y., Aug. 31/01

My Dear Mr. Davenport

Yours of ten days ago should have been answered sooner, but I have been away from home, into the North Woods to see if I could not pick up a bit. And I have, - a little but am not feeling quite up to mark as yet. I hope that Clute will be able to squeeze your note on Underwood into Oct. Bull., as it is too good to hold over. Und. is not at all disingenuous when he wants to make a point, & you certainly have him on the tray matter. As for B. tenepros. we will have to agree to disagree amicably, as I simply cannot see the matter in the same light that you do. I have no doubt that we differ in opinion on a number of points, but on the main point of conservatism we are thoroly at one, & I am satisfied we are right. In several acknowledgments of my list the writers have expressed their approval of my conservative attitude. I do not object to moderate & necessary changes, which have got to come or else

The science would be at a standstill.  
But violent & unnecessary changes  
are all the more to be avoided & decried.

I have heard nothing from Mr.  
Hill this summer except a very short  
note acknowledging receipt of List.  
I will write him however & tell him  
what you would like, in the way of  
roots. Mine came last fall by express  
& cost me about \$3.<sup>50</sup> for transport.  
I have discovered one small frond  
that is fruited, & it is now in press  
drying. Will send you a little pkge  
as soon as it is dry, probably in about  
a week.

I am not trying  
to do much in the way of ferns now-  
adays. My head & stomach will not  
allow much work of that kind. The  
doctor promises better things before  
long, so I live in hopes. Meanwhile  
I am sitting around the house  
doing nothing & trying to keep my nerves  
quiet.

Sincerely Yours

B. D. Gilbert

Clayville, N.Y., Nov. 7/01

Dear Mr. Davenport,

Your letter of 3<sup>d</sup> inst. has only just come, & I propose to write while it is fresh in mind, as I am so apt to delay <sup>long</sup> if I let it go for a few days. I regret very much to learn that you are so fagged out with business work & worry. If you could get a change even for a short time I believe it would do you a great deal of good. At our time of life it will not do to stick to work so long & so closely. We feel the effects so much more than we did in <sup>our</sup> ~~my~~ <sup>young</sup> ~~my~~ <sup>life</sup> ~~my~~ <sup>life</sup>. It is certainly not to be wondered at that you have not been able to do much work in ferns, as close use of the eyes is absolutely necessary in most of that kind of work.

Referring to what you say about Bot. Tern. Occidense (I suppose you mean that), both Dr. Haberer & myself have collected a mass of material this fall & we find that Occidense

is as easily separable by itself as  
dissectum. If an unusually dis-  
sected form (sometimes it is only  
sharply serrate) is to be separated as  
a variety, why should not a form  
with unusually entire pinnæ &  
pinnules be treated in the same way?  
It seems to me that the argument is  
good in both cases if it is good in one.  
The Dr. & I expect to get together next  
Monday with our specimens collec-  
ted this year & make comparisons.  
When Underwood was here in Sept.  
he declared, on seeing my specimen  
of *Bot. term.* from Japan, that it was  
not the genuine thing. There are two  
forms in Japan he says, & mine is  
the smaller form, a variety. Now  
mine came from Dr. Matsumura  
& has his label, & perhaps he ought  
to know as well as Underwood, what  
it is. I am willing to acknowledge  
that it is an immature specimen  
which probably had not attained  
its full growth, but I believe it  
shows the character of the species



(2)

& I am not at all sure that we cannot match it in this country. At all events, Haberer & I probably have the largest collection of these forms recently made in America, which will give us an unexcelled opportunity for comparative study.

As I have no facilities for photographing, I shall be very glad to lend you the proliferous *Soldier*-*annul* for that purpose & will send it to you very soon. Will also enclose a nice specimen of *Polyp. vulgare acuminatum* I. S. E. which will be described in Jan. Bull. I concluded not to risk calling it *Wollaston's laciniatum*, as the description of that does not fit it at all closely, & there are probably no specimens in this country for comparison.

Good for Miss Gosson! Persistence does often win. If she has a cross between those two species, it is dollars to cents that it will prove to be *ebenooides*. I shall say nothing about it publicly

until such time as she may announce it.

I do not sympathize with you in the wish that Mr. Dueris might be elected vice-pres. of the Chapter. I agree with Clute that ours is distinctly an American organization, & its officers ought all to be American. Besides, the V.P. is a member of the Council, & very often there are matters which have to be acted on by the entire Council. It would be highly inconvenient to be obliged to write to England to consult a member on some question of which he might not even know the merits, while it would take two weeks or more to hear from him even if he did know them. No, no, - I am a know-nothing on this question, sure.

I also heard from Clute last week, & since coming home have sent him the description of *P. v. acumin* & some notes on *Asplen. anceps*, *Lycop. tristachyum*, & one or two other things. I see that Thines also writes *Nephrodium* in his ferns of Iowa which I rec'd last week. Ferriss, on the contrary, uses Lind's nomenclature in his pub<sup>d</sup> list of ferns in Follet's bot. Garden. Sincerely B. D. Gilbert

Clayville, N.B., Nov. 9/01

Dear Mr. Davenport,

Your letter was rec'd this  
morn. You need not fear that  
we shall exterminate the  
*Botrycinus*. There are dead loads  
of them in this part of the country.  
As Dr. H. says, it seems to be head  
quarters for them. I expect to  
take mine in to Utica next  
Monday & hold a symposium  
over them with the Dr. His  
specimens. Have done up the  
two sheets comprising the one  
specimen of *Neph. Gold. f. prolif-*  
*erum*, together with a good speci-  
men of *Polypod. vulgare acuminat-*  
for yourself, the latter being for  
yourself & not to be sent back  
as you once did with some speci-  
mens which I meant you to  
keep. If you look in the *Fern Bull.*  
for January 1900, you will find  
a short notice of it there. I did  
(The *Goldicum*)

not then know whether it  
would prove a permanent  
variety or a merely curious  
form, but as I did not find  
it again at the same place  
I concluded that it was an  
accident, so did not include  
it in my list.

Among other things at  
Hion I got Lawsons var. <sup>of</sup> *marginale*  
or *N. marginale*. It is merely a  
large form of the species more  
extensively developed than usual  
on account of its size. But I got  
some little forms of same species,  
2 in. to 1 ft. long, & perfectly fringed.  
One would hardly call them *margin-*  
*ale*, for the pinnules are simply  
pinnatifid & the sori are always  
in the sinuses & not on the margin  
proper. Have you ever seen specimens  
of that kind? What's the matter with  
our judge of elections? Like you  
self I have heard no news regarding  
the election. Notifications ought to  
have been sent to the successful

candidates a week ago, as  
the polls closed Nov. 1. Accept  
my congratulations on your  
election as V. P., as I suppose  
Miss Stosson knows the fact  
or she would not so inform you.  
If I am Pres., I shall be very glad  
to have you to consult with, as  
we generally harmonize pretty  
well. If the Plant World should  
get hold of the Fern Bull. I think  
the Chapter would have to start  
an organ of its own. The Plant  
World people are sticklers for  
the radical nomenclature, &  
would probably refuse to pub-  
lish articles unless one would  
conform to their views on nomen-  
clature. That is what the Torrey  
Bull<sup>n</sup> does. Blute wrote me  
to the same effect, but I did  
not imply that the negotiation  
had reached an acute stage. It  
would hardly be worth while for the  
Chapter to buy the Bull<sup>n</sup>, as our

members would take the Chap-  
ter publication, whatever  
it might be. And that would  
detract just so much from  
the value of the Kern Bill, as  
an outside investment.

Had to hear that Miss S.  
has been so successful in  
her efforts at hybridization.  
It has always seemed to me that  
the conditions under which  
open sides is generally found  
growing pointed very strongly  
to its being a hybrid.

I hardly think I can send  
the pkg to mail before Monday  
but will if I can. I have a cold  
& sore throat & am staying in  
doors for a few days, & hardly  
like to trust the pkg in other  
hands.

Very sincerely Yours

G. J. Gilbert

11  
1  
Layville, N.Y., Dec. 7/01

Dear Mr. Davenport

I am sending you with this a piece of a frond of what I labeled in my herbarium two years ago Athy. cyclosor. orientale. I did not publish it however, for the reason that I could get no fronds that were not too mature to show the true nature of the indusium. I have just come across this fragment, in looking over a lot of duplicate material, & from it was able to secure an indusium which shows the jointed cilia perfectly under a microscope. You may remember that in my list I said that "The specimens in the Eaton herbarium from Battleboro, N.Y. & from Philadelphia are believed to be only densely fringed specimens of A. f. incisum, of the same is true of all the so-called specimens of Cyclosorum found in the East." I am

glad to be able to correct this myself,  
as I shall do at once. The eastern  
form differs from the western in  
some respects, enough so to be des-  
ignated as a distinct variety, but  
it is cyclosoorum all the same. On  
the specimen which I send, you will  
find indusia that can be detached  
& put under a glass. It comes from  
the same locality & was gathered at  
the same time as the type specimen  
in my own herbarium. I have it also  
from Nov. M.S., & from my own  
locality here at home.

Yours sincerely  
O. D. Gilbert

Will return this letter, but keep it.  
O.D.G.



V  
1  
Clayville, N.Y. Dec. 13<sup>th</sup>,  
Dear Mr. Davenport,

Mr. Chambers has declined  
to accept the Sec-ship of Lin. Term  
Chap., as I told Mr. Meason he would  
in advance. This necessitates ap-  
pointing a Sec., & altho I am not  
yet President, Meason throws the  
responsibility upon me. Miss  
Wheeler who was the alternate  
candidate has been elected  
Sec.-Treas. of the Moss Chapter, &  
cannot, she says, assume the  
double duty of ours also. Her cousin  
Miss Julia Wheeler declines on  
account of ill health, & Miss Pauline  
Karlsgaard ditto. So I am writing  
to ask if you can make any sug-  
gestions. Do you know anything  
about the qualifications of Miss  
Alice S. Dacey, South Boston; Miss  
Mina K. Goddard, Lexington; Miss  
Addie Howard, Amesbury; Miss  
Agnes Lincoln, Medford; or Miss

Elia A. Boyes, Newburyport?  
These are all ladies you see,  
but there are so many in the  
Chapter that they ought to have a  
representative in the Council.  
Besides, it is desirable that  
the Sec. be within a moderate  
distance of the rest of Council,  
in matters of correspondence.

If you can make any  
suggestions, I hope you will  
do so at once. I have two offers  
out now, but am not very hope-  
ful of either. If both should accept  
I should be in a fix. It is desirable  
to publish the appointment in  
Jan. Publ. if possible, so far  
see the time is limited.

Sincerely Yours  
O. D. Gilbert

I had a very good & interesting  
letter from Mrs. Anthony a few days  
ago. She wrote about her finds in  
Nassau, among them an *Adiantum*  
which she did not know, but which  
from the characters she gave I told  
her must be either *A. striatum* or *A.*  
*cristatum* - which of these it might  
be could only be determined by  
the situation of the vein. He also said  
there was a small *Davallia*, but as  
she only gave its size, viz. 3 in. to 2 ft.,  
I could furnish her with no clue. I  
know of no *Davallia* which fruits  
at 3 in. high that grows in the W. Indies,  
from whence these ferns come of course.  
*D. striata* fruits at 1 to 2 ft. & that would  
be more apt to get as high up as Nassau  
than any other species of the genus I  
can think of. Having no authorities  
with me however, I have to rely on mem-  
ory alone. How is your son now? I hope  
he has recovered sufficiently to give you  
some let-up in your work. Please keep the  
specimen of *A. Goldiei* until I return  
home.

Very sincerely Yours  
B. D. Gilbert

204 Ogletrope Ave.  
Savannah, Ga.  
Feb. 15 - 1902.

Dear Mr. Davenport,  
Almost simultaneously,  
this A.M. came your letter & the  
Jan. No. of *Peru Bull.* But wrote  
me that the publishers had driven  
him almost frantic with their  
delays. You will probably be sur-  
prised at receiving a letter from  
me at this point. I have now been  
south for a month past, & expect  
to remain here till some time in  
April. I have had trouble with my  
throat ever since cold weather set  
in in November. There is no cough  
& the trouble is entirely catarrhal,  
but it is at times not merely un-  
comfortable but painful. However,  
I think there is some improvement  
& hope to feel much better by the  
time I go home. I have had catarrh  
all my life, but it has seldom as

such an active form as it has  
this season.

My copy of Rhodora is addressed  
to me at Clayville, so I shall not see  
it until I go home. Then I promise  
myself much pleasure in perus-  
ing your articles.

Allow me to thank you most  
heartily for your considerate and  
frank notice of my "List", in the Fern  
Bulletin. It was all I more than I  
had any right to expect. Underwood  
seems to let me severely alone. Of  
course that relieves me from any  
necessity of answering him, as I  
should be much tempted to do if  
he attacked me as he did Clute in  
Loreys. The Jan. No. of the Bulletin  
carries out fairly well the program  
laid down for it by Clute. It is getting  
to be a fairly good sized publication,  
with its 32 pages. Whether it can be main-  
tained at that level remains to be  
determined. I sincerely hope it can.

The annual report of the Chapter  
is nearly ready for the printer, & will

be entirely so by the time we  
have succeeded in making a bar-  
gain with him. The printers in  
Binghamton want to charge us  
more than they have done heretofore.  
Do you think they ought to? I un-  
derstand that the typesetters in N.Y.  
state struck & secured an advance  
in their wages last summer. That  
may be the reason why our printers  
want to charge us more money.  
I am corresponding not only with  
the Bing<sup>n</sup> people, as Mr. Clute reque-  
sted me to do, but with the Utica  
firm which published my list  
& which is the largest job-printing  
concern in Central N.Y. If they  
will do it for us cheaper, I see no  
reason why we should be obliged  
to stick to the Bing<sup>n</sup> firm, do you?  
If it is desirable to put on the title  
page "Published by W. A. Clute & Co.", I  
hardly think Mr. C. would have any  
objection, as that is about the only  
advantage he would receive from  
having it done in Bing<sup>n</sup>.



it occurred to me to ask why it would not be appropriate to classify *Oreoclea* & *Struthiopteris* among the evergreen ferns? Their fertile fronds always remain over till the next season, & why should not fertile fronds be recognized as well as sterile? True, they are not green, but they are complete & perfect, even more so than during the very short time when they are green. I thought I would suggest the idea to you & see what you thought of it. Of course we shall stick to *Nephrodium*. I have always kicked on *Dryopteris*, & *Aspidium* cannot ~~take~~ be used for both shield-shaped & kidney-shaped indusia. Key own correspondence shows me that since the publication of my list there is a quite general adoption of *Nephrodium*. Botanists seem to appreciate the unfitnes of *Dryopteris* to "fill the bill".

The N.Y. Botanical Club has gone to the printer & I have just rec'd acknowledgment of its arrival. I finally

made an arrangement with the *Ringhiana* people that was fairly satisfactory, I've usually organized paper to have the work done by them, as it always has been.

After *Underswood* had given you such a blast, he wrote me one also, & I will overload it for you to see. He was the occasion of one of my notes in Jan. Bull. to pitch into me on the "50- year rule", & at once wrote me that I owed an apology to Mr. Braun, & that if I had known the fact which Mr. (Mrs.) states, I would never have his carded the finely descriptive name of *Neoph. Namayep.* for the totally misleading one of *trifacatum*.

I hope before leaving here to be able to collect something. For two days now we have had a fine warm rain & the grass & gardeners begin to look quite green. Do not expect to find anything worth while, but we never know what

Clayville, N.Y., July 30/02

My Dear Mr. Davenport,

I have certainly been very remiss in allowing your interesting letter of a month ago to remain so long unanswered. But I have not been well, & have been away from home twice near a week, which has largely taken up my time. My throat trouble has been diagnosed by a specialist in N.Y. & another in Utica as neurasthenic, & as I have suffered from it ever since last fall, it is not to be dis-  
regarded in a hurry. There is no cough connected with it & I have actually gained a little in weight this summer, but the throat is very uncom-  
fortable & harassing all the same. I have been to the North Woods twice, in hopes of some improvement, but the excessive dampness of the weather made those experiments a failure, & the last time I came home

I was worse off than when I went.  
However, I am now under a regular  
course of treatment & am glad to  
say that within the last few days  
I can feel a decided improvement.

Dr. Waters has requested me to  
forward to you the enclosed photos  
for your inspection. They are by no  
means the first of his which I have  
seen, & in my humble opinion they  
represent the work better than any  
illustrations I know of, unless it be  
those in Hook. & Bauer's "Leucora." I simply  
cannot understand how such things  
can be made with a camera. I sus-  
pose he has written you that he would  
like to have these returned to him.

As for Underwood, no doubt he  
feels that the whole brunt of his non-  
conformity must fall upon himself, & it  
makes him cross-grained to be opposed, -  
the more so because the opposition car-  
ries so much weight. That does not justify  
him in being ungentlemanly however.  
You take the right course in ignoring him  
personally entirely. I am very anxious to see  
your paper on Nephrosium. When will it appear?  
Sincerely Yours  
B. D. Fisher



Clayville, N.Y. Aug. 15/02

Dear Mr. Davenport,

Your letter & the Aug. No.

of Rhodora are received, & I must confess there is more of this Nephrud. question than I had imagined. As it now stands, you are unquestionably ahead, & I do not see how your argument can be answered except by the claim that Dryopteris has the precedence in point of time of publication, which is a foolish claim on account of the utter discrepancy between the thing itself & the description. I remember Mr. Jernum writing to me that he could never recognize Dryopteris because it was a sastard name, & that describes it as completely as a single word can. The article is, I think, the most convincing & able of any that I have seen from your pen.

I do not recall what title name

Esson gave to her paper in Torrey's, but it would not be at all surprising if she were to be influenced by Columbia, residing as she does in its shadow. You know of course the tactics they pursue there. No one can publish either in the Torr. Bull. or in Torrey's unless he or she will adopt the nomenclature which they sanction. By this means they fairly bulldoze writers into agreeing with them.

I regret to hear that you are worried about business matters at your time of life. Years ago, I cut loose from active business, with a very modest income, simply because I thought that it might breathe my life. And I have no doubt it has done so. Can you not do the same? I care not how small a man's income may be - i.e. if it amounts to a competence for living, he is better off to be relieved of the responsibility of business affairs after he is 60 years of age.

My throat is very much better this summer & my general health also. The Dr. calls my trouble a species of rheumatism of the throat & has sent me off from red meat & all sweets. But I'm afraid I don't follow the prescription closely!  
Yours sincerely  
R. D. Gilbert

Carville, N.Y. Sept. 19, 01

Dear Mr. Davenport,

We are obliged to publish a list of officers in the C.C. Bulletin, to be used for in C.C. How does the following list suit you?

For President.

George W. Davenport

Dr. C. V. Kasper

Vice Pres.

W. S. M. Newman

G. A. Woodson

Sec.

H. B. House

Mrs. J. H. Quinn

Treas.

Wm. A. Graves

S. H. Bissell.

House and Graves both consent to  
and again is elected. I have had less  
work and less severe duties. I am  
a ticked part of the C.C. Movement in  
the C.C. and I am sure you will  
be satisfied with this.

Kindly let me hear from you  
as soon as possible. We are rather  
satisfied in getting safe to the Bull, but Mr.  
Graves has been away some time  
& I have only recently heard from him  
which was unnecessary as the impor-  
tant matter.

Yours truly  
J. P. Gilbert

I would order to put Mr. Saunders  
on first for Vick's, but Mrs. says  
she would not accept.

How is your health nowadays? I am so full of Chap. matters that I haven't thought to make inquiries about yourself in the body of my letter. Clayville, N.S., Nov. 20/03

My Dear Mr. Davenport,

Although you declined a nomination for an office in the Penn Chapter next year, you are still one of the executive Council for this year, & as such I desire to consult you.

Mr. Clute has called a meeting of the Chapter at St. Louis in the holidays at the time of the A.A. A.S. meeting. He has gone ahead & made arrangements for speakers &c. without consulting the Council, to whom alone these duties belong, & now wishes the Chapter to foot the bills. The officers consider this a high-handed proceeding on Clute's part and are disposed to refuse to pay. It is not probable there will be more than 6 or 8 members present, although the outside attendance may be very good. Will you kindly let me know what you think about it?

And here is still another matter about which we want your candid opinion. We have all become pretty tired of Mr. Clute's arbitrary & domineering manners. He habitually talks & acts as if he owned the Chapter & was at liberty to do anything he chose where it is concerned. So the officers and ex-presidents are considering

The plan of withdrawing from Clute &  
The Fern Bulletin altogether, & starting  
a publication belonging to the Chapter.  
No doubt you will think at once of the  
nomenclature that will be used, but  
that will be no bar, as each writer will  
be allowed to use the names he prefers,  
provided they are the correct names  
under the system which he uses. I sup-  
pose we would have to reduce the dues  
to 75c., so that a membership would cost  
no more than a subscription to Fern Bull<sup>n</sup>  
Clute would undoubtedly do all he could  
to injure us, but I believe we could hold  
a majority of our members in spite of him.  
as we could get better material for our  
publication than he could, and the magazine  
would cost us no more than it does now -  
i.e. than what we already pay him.  
Mr. House & I favor the change, but I have  
not yet heard from Mr. Graves who is to  
be Pres. next year. Of course Clute & a few of  
his friends would withdraw, but that is no  
more than we would expect. There would be  
no controversy, the Treas. would simply write  
Clute that the Council had directed him not  
to order any more Bulls, then we would issue  
our own. If it is done it must be done at once,  
as the new Council comes in in Jan'y next.  
Please think it over & let me have your opinion as  
quickly as possible. Sincerely Yours  
Ed Gilbert

Tho' with little freezing & no snow  
whatever. But the skies are lowering,  
& there is more or less cold rain,  
& I do not improve as fast as I  
could wish. Probably I ought not  
to expect it at my age. You & Mr.  
Parish & myself are pretty nearly  
the veterans of Botany now & I hope  
to keep in touch with you two as long  
as we last. Have heard from Mr.  
K. twice this winter. You say nothing  
about your own health, so I hope  
you are better than you were a  
year ago. Anything that you may  
have to send to me will reach me as  
safely here as it would in Clagville.  
I shall not go home until the middle  
of April. Have done very little work  
for a year past. What little study I have  
been able to do has been devoted to  
the moose, & I am getting together

VH

204 Oglethorpe Ave. N.  
Savannah, Ga.  
Feb. 11 - 1905

Dear Mr. Sawcypost,

Your postal has been for-  
warded to me here where I am  
spending the winter. It seemed  
good to see your handwriting  
once more. You may remember  
that last spring I had an attack  
of nervous prostration. During  
the summer I quite recovered  
from it, but when winter came  
again & I was practically shut  
up in the house, the trouble came  
back upon me. So I just pulled  
up stakes, & came down here the  
latter part of December. Even here  
the weather has been pretty bad

quite a respectable collection. Could you tell  
me when I can purchase a copy of G. & G's  
Manual? In a lot of print, & at the same  
had one for use in the year, belonging to H.  
However, I am anxious to own one these days.

The Index to Trans. Bulletin (print & the  
i. s.) is not long. The issue is. 4 copy came to me  
this morning for the first time. Now the  
material in these vol's. will be available.

Do write me about yourself, how  
your health is & what you are doing in  
science.

Very sincerely yours

W. J. Gilbert



Clayville, N.Y., June 29/05

My Dear Mr. Davenport,

Have you a spare friend or two of Miss Flosser's Nepenthes Pitts-pendense? I have not seen it, but have recently had my attention called to it by Mr. Eggeston's list as N. ferns sub<sup>d</sup> in the Fern Bull<sup>n</sup>. By the way, let me ask you if that is properly named? Why should it be printed the same as a genuine species would be, when I am acknowledged hybrid? It seems to me that the true designation ought to be N. ~~marginalis~~ x ~~spiculosa~~, in the same way that your N. cristata x marginalis is designated. If hybrids are to be written the same as original species, then the florists' catalogues are as scientific as Gray's Botany. I don't believe in that sort of thing.

Have you seen Underwood's

recent judging with *Potamogeton*.<sup>2</sup>  
It is in the "Bude" "Torreya" which  
has only just come to land. He  
changes his former *B. occidentalis*  
to *B. silaifolium* Presl, and his  
former *B. siliafol.* to a new species  
viz. *B. Californicum* Wed. This  
he claims is in accordance with  
the latest researches. Do you think  
that he has ever seen Presl's type  
specimens of *B. silaifol.*? In regard  
to *B. occidentalis* he says: "The relation of  
D. C. Eaton's sub. var. intermedium to  
this species was pointed out to me long ago  
by Mr. Gilbert, & I am inclined to regard that  
form as representing the eastern extension  
of the western species or vice-versa". I told  
him plainly that I considered his occident.  
& Eaton's intermed. as one & the same  
thing.

Inasmuch as I am  
a trespasser for the Pitts. Deuse, you  
must allow me to pay the postage on  
same. Accordingly I enclose \$1.00 in this.  
If that is not enough I will send more. What  
can I give you in exchange I wonder?  
Respectfully Yours P. D. Gilbert

Clayville, N.Y., Jan. 25/06

My Dear Mr. Davenport,

Your very nice flocks of Dickcissel  
came to hand in good condition last  
evening & I have enjoyed looking them  
over exceedingly. A bunch of their  
youngies together in the garden must  
be handsome & feathered. One of these  
days I must try to send you some.  
Things in return that will interest  
you. I am certainly deeply obliged  
for those, which will go into my  
nest at once.

Sincerely Yours  
A. D. Gilbert

It has just occurred to me  
that you may think it queer  
that I have said nothing about  
your argument on species, i.e. that  
the generic & specific together are what  
properly constitute a name.

I should have said something if  
I had not agreed with you entirely.  
Your citations from Gray are  
most opposite & can be only  
answered by setting them aside  
altogether. Underwood is very  
fond of quoting Gray to the effect  
that a species can have but one  
name, but he doesn't show what  
that name is or how it is formed.  
I think you have by all odds the  
best of the argument.

Clayville, N.H., Jan. 6

Dear Mr. Davenport,

I am writing again so soon because I want to make a suggestion. Your elucidation of *Nephrodium* seems to me admirable & convincing. But I do not like the retention of *Eu-Nephrod.* for the section with conniving veins. It seems to be too contradictory, & simply perpetuates Hooker's mistaken classification. In fact it changes his classification in no way except in the substitution of *Nephrod.* as a sectional name in place of *Lastraea*. If you would allow me to arrange it I would make it

*Nephrodium* Desv.  
Factions -

Free veins *Eu-Nephrod.* - Desv.  
Conniving veins *Davenportia* - Gilchrist  
That would be in line with *Fellicia*,  
*Lorinseria* & other sectional proper names. If your extreme modesty should decline this, (which I hope it will not,) then some name might be devised referring to the connection,

of the fascicles of veins. This  
it seems to me is due to yourself,  
rather than to adopt such tau-  
tology as the use of Hooke's name  
involves.

Yours Truly  
P. D. Gilbert

Chapel Hill, N.C., Feb. 19

Dear Mr. Davenport

Your note just rec'd. I am writing only to say that I have specimens from Europe also, some of which are labeled B. ternatum & some B. matricariae, but they are all the same & are all matricariae. They are not at all like B. ternatum from Japan, which I have also. The only thing I have seen that matches it is a single specimen collected by Dr. Huber's last fall. This was so peculiar that he could not help noticing it, & kept it by itself. It is one of three peculiar forms which I did not attempt to determine because there was only one specimen of each. But while the sterile leaf is <sup>cut</sup> very much like that of Japan, the fertile frond is slender & more delicate, & I would not take the responsibility of saying that it is ternatum. In fact, I do not believe that the real thing has ever been found in this country as yet. I can't say what may be found in the

future.

I wish you could find time to simply answer the following questions:

Do you believe in *Adiant. Jordani* against *A. emarginatum*?

Do you believe in ~~*Cryptog.*~~ <sup>*Polyst.*</sup> *Lemmonii* against *A. P. mohrioides*?

Do you believe in *Cryptog. Stelleri* against *Pellaea gracilis*?

Do you believe in *Phanerophlebia auriculata* against *Aspid. juglandifol.*?

Martens & Galicotti show by their figure how this species varies.

What do you think of *Orinthopteris* against *Anemia*?

And *Gymnopteris* against *Gymnogramme*?

And *Cheilogramma* against *Taenitis*?

You can answer these on a postal card if you choose, in the shortest possible manner.

The pkg containing my ferns has not yet come, but ~~because~~ it will be here in days or two.

Hastily Yours

J. D. Gibber

I will address this to your place of business Boston, where it will probably reach you a little sooner.



Clayville, N.Y. Feb. 20

Dear Mr. Davenport,

Just a line to let you know  
that the pkge arrived safely this P.M.  
Many thanks for the *Dicksonia*.  
It looks very much like my filix fem.  
of similar character.

Should not wonder if you were  
right about the Arizona <sup>of N. York.</sup> specimens.  
Fact is they are hardly complete enough  
to form a settled judgment on. I did  
not intend to have you return the  
Aff. spec<sup>ns</sup>, but probably you have  
just as good of your own.

My list is coming on pretty  
well, but as it will contain consid-  
erable original matter, I don't like  
to hurry it too fast. Have been feeling  
miserably today; don't know yet  
whether it is liver or a cold. Have  
eaten nothing, which is all right  
on Ash Wednesday, eh? Fastung is  
often the best medicine.

Sincerely Yours  
J. D. Gilbert

Clayville N.Y. Feb. 27

Dear Mr. Davenport

I had to write to Dr. Haberer to get some specimens of *B. dissect.* being entirely out of my self. He sent a lot of them & I forward the whole pkge with this. There are our four forms found here & a specimen of *B. occidentalis* from New Westminster. These are all I am able to send you. I have matricarial from here, but no duplicates. Neither have I duplicates of bitematum. Mine are from Ala. By the way I hope you accept that as a good species. If you should not I fear it would disappoint your best friends, all whom I know regarding it as one of the best species in the genus. And the same with Eaton's tenebrosus. I have a large series of that, from sterile leaves no bigger than a pinhead to those with the leaf an inch long. But in no case can I see that it at all resembles any other species. I understood that Clute proposes to make it a var. of neat-folium, but that is simply ridiculous. It doesn't come anywhere near that. Have you a full-fledged specimen of *B. simplex compositum* that you could spare? Sincerely Yours  
J. D. Silliman

Clayville, N. S. May, 1

Dear Mr. Davenport,

Your pkgs containing

Millsbaugh's specimens came last evening & I have just concluded work on them, - not a very long job. Altho several of them have no fruit, I think I have located them all except one, & that one I can't even hazard a guess upon. I have specimens of them all except this one, and the entire absence of fruit on this gives one no clue whatever, even to the genus. Such specimens have no value, and Millsbaugh ought to know better than to ask any one to bother with them. However, I was rather glad to see them & exercise my guessing faculties on some of them.

You probably have rec'd Maxon's catalog. As I expected, he follows Underwood slavishly, but I do not understand why *Ured.* has re-named *Lycopod. adpressum* L. & W., I made it *L. Chapmani* Ured. Can you explain it to me? My list will be far from such a handsome piece of typographical work as his, but I trust

it will appeal to the common  
sense of botanists more surely.  
I have not had time to examine  
Maxon's carefully as yet, but mean  
to do so as soon as I can get time.  
Chute writes me that he proposes  
to publish a list after both his  
& mine are out. What his idea is  
I can hardly guess, except that he  
thinks that even I will not be  
conservative enough. He has been  
trying on one pretext or another  
to get a preliminary look at mine,  
but has not succeeded, I will not  
until it is out.

You will find slips on each  
sheet of Millspaugh's ferns giving  
my views in regard to them. I  
will return them at once.

Sincerely Yours  
G. D. Gilbert

Clayville, N.J. May 25

Dear Mr. Davenport,

I have had a little correspondence with Prof. Lemmon of Cal. and he agrees with Dr. Underwood that his Shasta specimens are not ~~Polypodium~~ Mohrioides. I had expressed some doubt about Dr. U's decision, and Lemmon simply paralyzed me by asking if I had seen any quantity of either Mohrioides or Lemmonia to make comparisons. If not, why should I doubt Dr. U's determination, since he has plenty of material to study & make comparison with. So I was obliged to acknowledge that I had never seen any Mohrioides from So. Amer. & had no right to form any independent judgment. I had simply banked on Prof. Eaton's determination, but it is quite possible that even he did not have ample material for comparison. Prof. L. seems to have seen the So. Am. fern & has no doubt about the Shasta fern being distinct, so I shall give it as P. Lemmonia. I intend to send you a proof of my Preface next week & would be

obliged for any suggestions you  
may have to make. I expect the  
whole thing will be in type next  
week, but I shall have to see two  
or three revises.

I notice you say you may  
have some scraps of my desiderata  
other than the four things you men-  
tioned. Let me say that even a  
scrap of any one of them will be a  
great boon, as it would enable  
me to remove an asterisk from  
that species or variety.

Very sincerely  
J. D. Gilbert

Clayville, N.Y., May 28

My Dear Mr. Davenport,

Your letter enclosing the review of Mayon is recd, and it is needless to say that it meets my views to a T. The only thing we do not agree on completely is Eaton's P. Tenobrosum, but that is a very small matter compared with our entire agreement on the rest of the list. I have listed Mrs. B's Ophioglossums as mere forms, & to speak my mind freely I do not hesitate to say that if Dr. W. had not been so intimately associated with the Brittons, & no doubt deeply indebted to them in various ways, his own judgment on Mrs. B's species might have been different. Besides, it is a matter of upholding Columbia.

I laughed right out, most heartily, when I came to your very neatly put criticism on M's P. vulg. deceptum. I had thought I would not give it, not having seen either a specimen or a plate, but Mr. Cutt writes that he has seen it and

considers it worthy of citation. So I see no objection to giving it under Dr. Millspaugh's name, which according to Maxon's own statement was its first designation. He discards it as a varietal name because some one else had a species so named, but if one acts generally on that principle all the "serratum" & "cristatum" &c must also be discarded, as it is easy to find species so named in the same genus.

So far as my notes are concerned, you are at liberty to make any extracts you choose from them, without using my name. The temptation to publish them was great where the opportunity was so inviting, but it certainly would be very impolitic under the circumstances.

I have already started a series of *Athyrs. cyclos.* in press for you, with a frond not yet fully unrolled, about 6 in. high, & covered with the large dark brown scales. I shall continue it along, with gradually larger fronds so that you can have a good series. Your experience with the indusia of *A. fil. foem.*



(2)

is a duplicate of my own two years ago. I have never seen a truly ciliated indusium on *Aff.* yet.

The letter of Dr. Christ has arrived and I will keep it for a day or two until I have time to copy the translation. It is a valuable document. I shall be glad to obtain even scraps of any species or variety which I have not got, & it is very kind of you to take the trouble to search for them. Hope you can let me know results very soon, so that I can cross off as many stars as possible. Kind that my herb. is also lacking *Polypod.* *vel. rugosum* and *auratum*, your *Cystop. frag. laciniata*, Pellaea *occidentalis*, which you score so that I shall place it back under *atropur.* as var. *acciden.* & *Camptosorus* v. *intermed.* Arthur, Mrs. Horton sent me a fragment of her fern & promises better this summer. Fortunately my printers have not sent me any proofs this week, so I am still able to add or subtract anything I want to.

Your M.B. will go back with

This letter. If you defer <sup>publication</sup> until mine  
is issued (which I think will be some  
time in June) let me modestly  
suggest that you do not speak in  
too high terms of my Catalog or its  
editor.

Along with the Athyriaceae  
roots came one of *Polyst. mucronata*,  
another of *Lomaria*, & I think  
one of *Polyst. Lonchites*. These are  
all coming up, altho much later  
than the Athyr.<sup>um</sup> But they are no  
later than our own *Nephrod. marginata*  
which was so late in showing its  
scrolls that I began to think some-  
thing had happened to it. Glad to  
hear the *Dicksonia cristata* is grow-  
ing so finely. I can't understand  
why Maxon should have omitted  
that.

With best regards  
Very sincerely Yours  
B. D. Gilbert

I shall be sending you my com-  
pact presentment in a short  
time.

Clayville, N.Y. June 11

My Dear Mr. Davenport,

Your letter came this morning and as I intended to write you today, I will do so in answer thereto.

As I wrote you last, I made a pretty careful examination of those acute forms of *Polyst.* I really wanted to find good reason for calling *californicum* a species & making *scopulium* a variety under it. But on setting out the whole display of specimens I could not help seeing that they were all forms of one species, only separated by matters of width, size & cutting.

So, after spending about a day making notes, I found myself back just where Prof. Eaton was when he prepared the "Pennis of N. A.," & there I propose to stay so far as the acute forms are concerned. I very soon became satisfied that *P. Lemmonii* was a distinct thing; & under the circumstances, as I have never seen any *So. Am. mohrioides* & Underwood has, I think it best to accept his

determination. I don't want to appear unduly obstinate or prejudiced, you know. The case is quite different with Adiant. emarginat. Here we have Hooker's figure in Species Fil. as a guide, & it is exactly a representation of our Bala. species. So I have no hesitation in adhering to emarginatum.

As for the authority on Botrychia, you may be right; but as it is my desire not to introduce any more disturbing questions than are necessary, it will probably be best for me to let Eaton's name stand.

Ophioglos. arenarium is certainly only a form, and so I have listed it together with Engelmannii & Alask-  
anum. B. matricariae is of course

the var. rutae-folium A. N. given by Eaton as our only European form, which "occurs in America only in Newfoundland N. Brunswick & the neighboring region." Here he was mistaken, as you have found it in Dedham, & I in the North Woods meadows, near where Mrs. Barnes used to find so many of her Botrychia.

The list is all in print, but I shall have to see one or more revisions yet before it will be safe to publish. Hope the Bot. Gaz. will use your review of Meas.

Cordially Yours  
B. D. Silbesh

Clayville, N.Y. June 20

Dear Mr. Davenport,

Your kind letter of 6th inst.

should have been answered sooner. No apology was needed on your part for not answering my note from Savannah, & I regret to learn that you have experienced such a series of bodily troubles. However you are better now, & as the warmer weather comes on you will probably get over your cold & its results. Perhaps you may think it is gratuitous on my part to offer advice, but I also am very sensitive to colds & have adopted the plan of going south for the latter part of winter & early spring & find that it has been a great benefit to me. I believe it would do you good also, for as we get on in life it behooves us to take extra care of our health if we expect to live out our natural span.

I am much pleased to learn that you are likely to be at the N.Y. meeting. Miss. Plosson writes me that at your suggestion she has related, or is to relate, some of her "Experience in Hybridizing Perus".

A capital idea, but I regret that she does not have confidence enough to read it herself. Probably Mr. Maxon will read for her, & I shall have to read the more general portion of Eaton's paper on Isoetes. Mr. Clute will have a paper for publication in the Proceedings, but I presume it will not be read as he does not think he can be present. There will be enough material however to fill a couple of hours very comfortably, & that is as much time as we are likely to have at our disposal.

Hoping to see you in your usual health at N.Y. next week,

Yours sincerely  
J. D. Gilbert

Clayville N.Y. July 7

Dear Mr. Davenport,

I meant to have written

you soon after returning from N.Y., but one thing and another has intervened to prevent. I wanted to tell you how much gratified we all were to have you attend the meeting of the Fern Chapter and take an interest in its proceedings. For one, I felt it an honor that the veteran fern student (for we are all only students) of the country should come from Boston to take part in the meeting.

But the attendance this year did not compare with that at Boston two years ago. That was due, in part at least, to your influence & efforts to make the meeting <sup>at Boston</sup> a success. The light-

attendance in N.Y. was no <sup>(2)</sup>  
doubt a result of two or three  
causes. Bronx Park is too far  
away from the city to encourage  
much local attendance: N.Y.  
members were somewhat put  
out by not being appointed on  
the committees, as they ought  
to have been; and the week  
was an unfortunate one for  
the A. A. A. S. as well as for  
our chapter, inasmuch as  
it was commencement  
week all over the country  
& professional men largely  
had to stay at their own institu-  
tions. All things considered, our  
chapter probably fared as well in  
attendance as any of the sections,  
there being only about 500 present  
in all. Will you kindly  
let me know how many parts  
there are to be of your new school



work on ferns and what is (3)  
the subscription price for  
copies with the larger plates?  
I am glad you are to get out  
something of this kind, as I  
know it will be framed on  
moderately conservative lines.  
Were you aware that Mr. Maxon  
is at work on a list of all the  
Nor. Am. ferns, giving synonymous  
range & good many details? I  
understand it will follow Dr.  
Underwood's new edition com-  
pletely in nomenclature. If that  
is so, I have it in mind to issue  
what I may call "A Conservative  
Check List of Nor. Am. Pteridophy-  
tes", making it very inclusive  
& putting both genera & species  
on an alphabetical basis, for  
greater convenience in reference.  
Please do not say anything about  
the matter, as I have not yet

mentioned it to a single (4)  
botanist before this. At present  
I am waiting to see both Dr. U's  
book & Mr. W's list. My action  
will depend somewhat on the  
character of those. I should not  
recognize all of U's *Potrychia*  
as species, because I do not be-  
lieve they are all tenable. Do you?

By the way, I wonder if  
you have even a single specimen  
of *Ophioglossum Alaskaicum*, or  
*Potrychium boreale* which you  
could spare me? Of course there  
is nothing in American species  
that you want, but I could give  
you some oddities that might  
please you, or interest you, rather  
in exchange. Or something from Jam-  
aica perhaps you would prefer.

Excuse this paper, but I was too hot  
& lazy to go down stairs for something  
better. Sincerely Yours A. D. Gilbert

Clayville, N.Y. July 23

Dear Mr. Davenport

Two weeks ago or more I wrote to you, but not having your address before me I addressed the letter from memory & perhaps it has gone astray. I wanted a prospectus of your new work on ferns. I want to subscribe for it but do not like to do so until I know something about its price & other details. If you will kindly send prospectus giving prices of different sized plates &c, I shall then know what to do.

Hope your trip to N.Y. was not detrimental to you. I have been down in central Pa. for a short time. Very sincerely Yours  
B.D. Gilbert

Clayville, N.Y., Aug. 23.

Dear Mr. Davenport,

Enclosed please find list  
of my additions to distribution.  
You did not have in Brit. Colum.  
& I do not know anyone will  
care for it, but I thought it might  
be as well to jot down the Nos  
for it as they came along. Perhaps  
it might be useful some time.  
Your list has neither Pellaea  
intermedia nor P. marginata,  
so I sent in my localities for those  
species, altho you probably have  
them from the same sources.  
I am mailing the list to Mr.  
Cute along with this letter, ex-  
plaining to him what you want.  
By the way, this list enclosed  
does not contain any revision of  
Atthys. fil. focus. As I have about 110  
sheets of this from all over the country  
I did not take the time to compare with  
your list, but if you would like to  
have me do so, I will make out a list  
of the states from which I have it.

If you propose to make  
Cyclosorum a full species, as I  
am fully persuaded it is, I can  
give you the distribution of that also.  
I happened to say to Dr. Underwood  
that I regarded it as a good species,  
& you see he puts it in his new  
edition as such, but gives no  
description except to say that it is  
larger in every way. The probability  
is that he does not know its dis-  
tinctive points. Have you read his  
book yet? If so, it must have been  
a shock to you.

You don't know how glad I was  
to receive those specimens of B. boreale.  
They are so good that I should be  
extremely glad to have your own labels  
to accompany them, if you can find  
time to write some. I am surprised  
that Mrs. Britton should keep all of  
your Ophiogl. Alaskanum, altho that  
seems to be the style at Columbia  
in order to make a good "type" sheet.  
Before long I propose to send you a  
little pkg of West India species which  
I think you may not have.

Cordially Yours  
P. D. Gilchrist

Clayville, N.Y., Aug. 25

Dear Mr. Davenport,

Will you allow me to call your attention to a matter which has long been a puzzle to me?

Years ago Prof. Leunomon discovered a fern in the Huachuca Mts. which Prof. Eaton at first published as *Aspid. Karwinskyanum*. Afterward he, or some one else, changed the name to *A. patulum*. Now I have four small fronds of Prof. Leunomon's collection. I also have a frond of Bringle's from Mexico, which is labeled *A. patulum*.

But none of them agree with a frond from Jamaica bearing the same name and which I have no doubt is the genuine species. Nor do the others agree with Jenman's description, which is extended & very definite. They do agree however with the descrip. of *Nephrod. Karwinskyanum* in the *Synop. Fil.*

I would suggest that you <sup>explore your own and</sup> go over <sup>your own and</sup> to Cambridge & see what material they have there in these two species and also read over Jenman's description in his *Ferns of Jamaica*, published

in the Jamaica Bot. Bull. which  
you will find in the herbarium library  
unbound. My 4 fronds from  
Arizona are all small - not much  
over a ft l. stipes tall - subdeltoid in  
outline, in one case broader than  
long. The stipes is delicate & two of the  
fronds have the rhizome at base. Now  
in patulum the stipes has a thick mass  
of scales at base, while Karwins. has  
none or very few, which is true of the  
Arizona plants. It differs also in the  
cutting & shape of pinnales as well as  
in other ways which you will see by  
comparison. N. Karwins. does not grow  
in the West Ind's, so Jermann has no  
description of it, but the descrip. in Synops.  
Hill seems quite satisfactory & to my  
mind seems to identify Linnæus's fern.  
It would be a fine thing if the fern  
could be restored to Prof. Eaton's original  
determination. There is so much criticism  
of him & of his work nowadays, that it would  
be a satisfaction to see some of his  
critics get a set-back. Of course I am  
merely making a suggestion to you. If  
on examination you find I am wrong, there  
is no harm done, & I shall accept your con-  
clusion cheerfully. Sincerely yours B. D. Gilbert

Clayville, N.Y. Aug. 27

Dear Mr. Davenport,

I happened to have out some of my Jamaica Duplicates today & took the opportunity to make up a little pkg for you. I trust that some of them at least will be new to you. You will notice that I have labeled them in accordance with Junman's nomenclature, as I consider him by far the best & safest authority on the West Ind. species.

Please don't think that these specimens place you under any obligations whatever to me. On the contrary, I have long felt that I wanted to send you something that might prove acceptable, in return for favors of the same kind which you have shown to me. Perhaps you are too busy at present time even to look them over, but you can lay them aside until the spirit moves, then you may enjoy them.



One favor I might ask, which is that you will let me know some time when you are sending me a line, whether your old correspondent Mr. J. Reverchon, of Dallas, Texas, is still alive, & if so whether he still resides at Dallas. There were a few things which he sent you that I would be very glad to get, such as *Pellaea aspera*, *P. flexuosa*, *Notholaena caudata* & *Cheilanthes Eatonii*. I would write to him if he is still living & try for some or all of these. Also is Mr. Saksdorf living & where? He sent you *Aspidium scopulinum* which I lack.

I hope you are getting on well with the Manual. Since writing you last I have sent a friend of Lemmon's *Nephrod. Karwins.* to Mr. J. Purman and asked him to compare it with *N. patulum* of West Ind's & let me know what he thinks. He holds *patulum* & Mexicanum as two separate species.

Sincerely Yours

P. D. Gilbert

My health is much better.

Clayville N.Y. Sept. 70

My Dear Mr. Davenport,

I owe you an apology for my long delay in answering your notes, but the fact is that beside being very much out-of-sorts I have waited for the *Athyrium* fronds to become dry in order that I might send you a pidge at the same time that I wrote you. Today I have put up the pidge & it will go to mail with this. The cultivated fronds are not a great success, the two largest being what I have called *forma Hillii*. But you will find some much better specimens in another sheet, one being the tip end of a large frond with indusia which I think will show the character very nicely. I came upon it when looking over my duplicates, not knowing that I had such a specimen. There is also a full frond of *Athyrium cyc. strictum* with red stem, besides several small fronds in different stages of growth, the cultivated one that is not yet unrolled being particularly interesting. I have also enclosed a

specimen of Lycopodium Chamaecyp. from our N.Y. state station, which I am offering to the Chapter in the next Bulletin.

I congratulate you on settling the question of N. morrioides in favor of Eaton. That is the way it will have to stand, & I half suspected so before I put it as Lemmonii. The presumption was however that Urd. had seen good specimens of the original plant, & as I had not, I was unable to dispute him. Besides, Lemmon was so sure about it, that it was almost impossible for me to do otherwise than as I did. Perhaps the reason why you have not heard from Urd. is because he has been absent from home - somewhere in the west - for quite a time. I had a line from him today saying he was on his way home & might stop over to see my Botrychia. So I rather expect him here tomorrow P.M. but do not imagine he will stay long. Ever Sincerely Yours B.D. Gilbert

6  
Clayville, N.Y. Oct. 11

My Dear Mr. Davenport,

I was sorry to learn that you had met with an accident to your eye, but as it seems to be recovering, it will probably be no permanent injury. From my own experience this fall I know what it is to be debarred from work on account of trouble with the eyes. With the advent of cooler weather my eyes have improved very much, but I have to be careful not to use them too steadily.

Now let me take up your letter and answer the points in it seriatim. Then I shall not forget any of them.

I think if you write to Mr. Maxon you can get him to loan you the Florida specimens of A. acrost. lomarioides from the National Herbarium. Those will undoubtedly be more ample in every way than my own, which came from there also. You no doubt have plenty of A. aureum in your own collection. I have a small root specimen of this, but none of the other. But the difference between them is striking when seen growing naturally. A. lomac. is a larger plant than A. aureum & its habit of growth with the comparatively short sterile fronds outside of the tall fertile ones in the center, which are fertile down to the very base while aureum is not, (bad English, but it is written & you will understand)

renders it a marked plant. You rather begged the question when in speaking of size you stated that A. aureum in Florida grows to the height of 10 to 12 ft. How do you know that? Have you ever seen it? Or do you take Eaton's statement for it? Eaton did not know lamar, as such, & took everything of that kind for aureum. I have seen ~~them~~ growing in Bermuda, & beg leave to doubt if aureum grows to that size. I believe it was lamar of which he was speaking when he made that statement.

I have no rootstock specimens of A. cyclosoorum, but the species does not depend on that. It is the indusium which tells the story, fringed as it is with jointed cilia<sup>and the rounded lobes</sup> and I will send you my specimens to look over & my description of the species also. It will answer, whether you call it Athyrium as I do, or Asplenium. I have not published it yet, but if you choose to give me credit for elucidating the species you are at liberty to do so, providing you agree with me as to its validity. I make also one or two varieties as you will see when you receive the specimens.

Jenman's new series is being published by the Trinidad Botanical Garden. The first series was pub'd in Jamaica, & both of them are completely filled with clerical errors. He sends me the new series corrected by himself in ink, and some of the pages are pretty

well scribbled over. You could prob-<sup>(2)</sup>  
ably get Clute to send you his sheet of  
Polytrichum. Zinnaria to look over, if Umberson  
has not gilded them all. I saw Urd's sheet  
at Columbia last June & it was crowded  
with "type" specimens. He certainly appro-  
priated all that Clute sent him. I have  
one little specimen which Clute sent  
me with his first lot, but I advised  
him to let Urd. tackle it, so I got no  
more, & this is not really a typical  
specimen. I have not Luerssen's  
figures so was unable to judge about  
P. matricariaefolium, but thought it  
strange if you & all our botanists except  
Wood had gone so much astray on it.  
Wood himself published neglectum  
early & evidently did not know of Luers-  
sen. Glad you are able to correct Urd.  
as you seldom bledly will on many  
other things. Druery's note makes a  
good point, the very one which I made  
to Clute in writing him soon after  
Urd's July article. I shall not be sorry  
to see Dryop. antagonized, but hope you  
will feel it right to use Polytrichum for  
the free-veined, rounded-veined species,  
those <sup>truly</sup> parusole I mean.

Miss Glosson wrote me she had  
found in Et. Campylopus & Aspl. ebenum

on limestone cliffs." In short the conditions for obovoides were perfect, & nothing lacking but the obovoides," Very neatly put. I wrote her it was probably too far north for even these favorable conditions to take effect. Shall be anxious to learn the final result of her attempt to produce obovoides by hybridization. If she does, that will settle the matter.

Please let me know whether you want to see my Fla. specimen of A. aureum with root, and I will send it on with the spec<sup>ns</sup> of A. cyclos. Have you got any West Ind. spec<sup>n</sup> of Tephrod. patulum to compare with Lemmon's spec<sup>ns</sup> from Arizona? I not I would like to send you my sheet to look at. I believe Lem's spec<sup>ns</sup> are Karwinskianum not patulum, if mine are good representatives of the plant he collected.

You can retain the description of cyclosorum till you are ready to return it. No hurry about it. It does not include the variety strictum which I describe separately.

I hope this will find you improved in health & in the condition of your eyes which are so essential in botanical work.

Very sincerely Yours  
O. D. Silberk

Clayville, N.Y., Dec. 74  
my Dear Mr. Davenport,

For the last 5 or 6 weeks

I have been too busy with other matters to pay any attention to ferns, but having now finished up my business for the season I feel at liberty to do what I want to. Your last note has not been acknowledged I believe, & I am behind with all my scientific correspondence.

There are two matters about which I desire especially to write you. Rather late in the fall, sometime in October I think, I received several canidices or crowns of *Thyr. cyclosora*. You will remember that when I sent you the description of this species I left the root undetermined. At that time I had not seen any root except the little young thing loaned to you. Well, I was much surprised by

over



those which came to me. One or two had some decayed fronds still clinging to them, & one had new fronds ready to start the next season. The caudex looked like a bunch of celery, or, to compare it with a fern, it was more like a crown of *Struthiopteris* than anything else I have seen. They came by express, in a box, from Brit. Columbia, & having been some time on the way, I was anxious to get them into the ground as soon as possible. So after giving them a good examination, I had them planted out. But you can see that they are entirely different from the long rhizome of *Filix-foemina*, which, altho thickly studded with stipae, never has them bunched together like celery.

Another matter is this: when you sent me your list for additions to range, I do not remember that you included either *Botrychium* or *Opnioglos*

You will notice that Underwood <sup>(3)</sup>  
gives *B. Coulteri* as "growing in  
geyser basins, Yellowstone Park," &  
nowhere else. Last June when we  
were in N.Y. I told him I had it  
from northern Cal. I had seen his  
specimens & recognized it at  
once. He seemed much surprised  
& said he had never heard of it any-  
where else than in the Yellowstone.

About a year ago I received a fine  
pkg of Cal. ferns & mosses from  
Mrs. Douse, the daughter of Miss  
Austin who used to send Prof. Eaton  
so many things. Among them was  
one specimen of *Botrychium* which  
she did not know & of which she had  
never seen a duplicate. It lacked  
the fertile stipe, but that is not really  
essential in one of the ternate *Botrychs*.  
When Dr. W. published his monograph  
on *Botrych.* I made up my mind  
that this agreed with the description  
of *B. Coulteri*, & when I saw his

(4)

specimens they simply confirmed my previous determination. The specimen came from Lassen Peak, Cal. & a sentence from John Muir's "Mts. of Cal." shows that the locality has the same character as the Yellowstone. Muir says: "Of these, Lassen's Butte is the highest, being nearly 11,000 ft. above sea level. Miles of its flanks are reeking & bubbling with hot springs, many of them so boisterous & sulphurous they seem ever ready to become spouting geysers, like those of the Yellowstone". In her letter Mrs. Ponce said that the specimen was gathered in "King's Meadow near the foot of Mt. Lassen", so if there is anything in environment, it would seem as though it ought to tell in this case.

I don't want to tire you by writing too much at once, so will stop for this time. Sincerely Yours  
C. D. Gilbert

Hope the Manual is getting on well.

1  
11  
Lerayville, N.H., Dec. 31.

Dear Mr. Davenport,

Your good letter of 27<sup>th</sup> inst. reached me in due time & I propose to occupy a part of this last day of the old year in writing you an answer, that I may not go over to the New Year in your debt. Let me take the subjects of your letter seriatim.

It is gratifying news to learn that your MS on Genesis is making such good progress. I shall take great pleasure in reading it, & promise you to make any and all suggestions that occur to me, altho' I do not imagine they will be very numerous. And if any of the suggestions strike you favorably, I shall feel that you have not sent me the MS. in vain. I forwarded to you this M. a copy of the published papers read at N.H. last June. Hope you will

pardon the condition of the pamphlet, but it was poorly bound & is the only copy I have yet seen. I sent it because I wanted you to see what I had to say about *Athyrium*. It may not convince you, but it will at least show you why I feel convinced myself. I notice that Lawson in Canada uses *Athyrium* as a full genus. My catalogue of plants issued last year by the Vienna Exchange (Botanical) also uses *Athyrium* in full & not as a section or *Asterium*. So I am inclined to think that the working botanists of Germany accept the genus. And by the way, those are the conservative people also. I have rec'd two quite large pkgs. from Germany the past summer, & in neither of them have I seen any indication of their following Presl, Kunze, or any of those authors who have tried to "reform" fern

nomenclature. *Aspidium*, *Struthiopteris*, *Pteris*, *Cystopteris*, *Toumaria* are all used, & inasmuch as *Crested Tentamen* has been in print about 60 years it is fair to believe that if the Germans were ever going to use it, they would be doing so now.

As for that root of *Athyrium*, it is at present under bin. of snow, but when it is get-at-able you shall have one.

To a certain extent I agree with you about Dr. W's work on *Cotonechium*.<sup>But</sup> I have *C. ternatum* from Japan and I hardly think I should say that ours was the same as that. Nor would I say that our eastern form is the same species as the *big sinuatum* form of the west. You see, all *Cotonechia* are built on the *ternate* plan, and it would be possible in a <sup>broad</sup> general way to claim that there was

only one species in the world. That would hardly be however, with such great variations as exist in different countries & even in Nor. America. You seem to think that "size, texture & mere shape of segments" have nothing to do with species. Here I cannot agree with you. I believe that all of these have more or less influence on species & ought to be taken into consideration. I cannot acknowledge that mere bud forms are the only specific characters in the genus. Does not the environment have more effect in creating species than any other single influence? Evidently that is the dominant influence in creating *B. pumicola*, which you believe to be a separate species. And so with *B. Coulteri*. To my eye & judgment it is quite a different thing from any of our eastern forms. My own impression would be that our eastern forms

come under *B. intricaria*, the same as those of Europe, with obliquum + dissectum as vars, & probably the northwestern form, which Underwood has named *occidentale*, as a var. also. *Intermedia* is certainly a good variety too. But I would hold *bitermum*, *silicifolium* & *Coulteri* as distinct species - *punicolum* I have not seen. *Oblioglossum* must be reduced in the same way. It hardly seems to me that the so-called *O. arenarium* is even worthy of varietal rank.

Do you not think that *Trichopteris* is a good genus? It seems to me that its distinct root character & netted vein entitle it to that rank & my German friends would hold it. But I would never apply it to *Lomaria* as Lindl. does. That is subversive of all order & decency.

I do not take *Rhodora* regularly but will send for a copy of the Jan'y No. to see what surprise it contains. My list will probably not be ready until after Maxwell's is out. We have not heard from C. G. for some time but presume he is busy with the book. (over)



Wishing you a Happy New Year  
 & good health throughout the year,  
 I am

Sincerely Yours

C. D. Gilbert

I meant to have called your attention  
 to one particular feature of *Athyra cyclos*.  
 That is that the young indusia are fringed  
 with long jointed cilia, which is not  
 true of any form of *Filix foenicula*.  
 I remember that the fringed indusium  
 was the only permanent feature you  
 mentioned for establishing your  
 species *Athyra fibrillosum*. If it was  
 good in that case why is it not good here  
 also, especially when the cilia are  
 jointed? Have examined hundreds of  
 specimens of *Fil. foen.* from all parts  
 of the country, but found the indusia  
 only jagged, never regularly ciliated.

The citation of Bot. ternat. obliq.  
as Eaton's combination must be  
placed on Eaton's own shoulders.  
He gives Var. obliq. (Muhl.), dissectum  
(Spreng-Muhl.), lunarioides (Michx.),  
with no other authorities, thus leaving  
it to be inferred that he himself is the  
party who reduces them to vars. Are  
you sure you are right in saying that  
these varietal combinations belong  
to Dr. Wilde? Because, if so, I must  
change my authorities. I have no copy  
of Wilde's works.

Maxon has sent me 3 Japanese  
ferns for identification, which he had  
already sent to Dr. Wud. The latter was so  
busy he could not attend to them, & Maxon  
encloses Wud's letter for me to see. At  
the close Wud. says: "I thought I told  
you that Cav. made Lectaria before I  
said he did in my Genera of Ferns. It dates  
from 1799 & we have the correct reference  
at the Garden." I took the trouble to look

This up I found that Cav's publication could not have been earlier than Dec. 1799. The question then arises how early had Swartz announced Aspidium? I don't mean to say that I would give up the use of Aspid. even if it was 6 months or so later than Lectaria. The latter never came into general use, while the former has been used for 100 years. But it would be a satisfaction if we could prove that it really antedates Lectaria. You may have to revise what you have said on this subject.

I have only just noticed that Dr. Es letter is in French which I read as easily as English. I thought it was German, so only looked at the translation. Miss Lay given a correct rendering of every thing except varietal names, which she took to be adjectives & translated accordingly. Dr. C. does not seem to understand that Dr. Uus. has "seen the original type from Presl's herb. of B. cilifolium & that it coincides exactly" with the largest specimens from Cal. So he should be given to understand that Uus. is following Presl in this matter. I also believe this to be a good species.

Why is not Woodsia obtusa Plummerae  
The correct combination? Plummerae  
was its first name under Woodsia, & that  
being the case, what right had Eaton to call  
it glaucescens? It was dedicated to Mrs.  
Plummer, whose maiden name was Plummer,  
& it doesn't seem right to take it away from  
her, especially as, according to Gray's rule,  
it is properly entitled to it. Is not that so?

Phyrium cyclosoorum Ruprecht.

Caudex?

Stipe about  $\frac{1}{4}$  length of entire frond  
broad & heavy, fronds 3 to  $5\frac{1}{2}$  ft. long, 12 to 20  
in. wide tripinnatifid, not quite bipinnate  
c. istic-oval reduced suddenly at, and sin-  
nate to within an inch of tip, also reduced  
at base. Center pinnal 9 to 11 in, long  $\frac{1}{2}$  to  
2 in. wide, lowest pinnal sometimes  
reduced to 2 in. long. Pinnules spreading with  
long acuminate tips. Pinnules stalked  $\frac{1}{2}$  to  $\frac{3}{8}$   
in. <sup>of stalk</sup> long,  $\frac{1}{4}$  to  $\frac{3}{8}$  in. wide cut nearly but not  
quite to midrib acute, segments nearly  
equal in size for  $\frac{2}{3}$  length of pinnule  
3-4 toothed at end & also on anterior edge.  
Sori small generally roundish 40 to 70 to  
a pinnule on full grown plants. Indusium  
short, early in season fringed with long  
jointed cilia which disappear with age,  
seldom laminate but almost always  
lipscopiform.

This description is taken from specimens  
in my own herbarium.

Ruprecht's own description of this  
species was as short & laconic as most of  
the Linnaean descriptions. It simply  
read Indusium brevius et sori parvumque  
rotundi. If it were not for the fact that the name  
was given so late as 1843, and not only

21. The average prices paid patrons for milk or cream. By months if possible.
  22. The average yearly production of these establishments, in butter and cheese.
  23. The usual ways of packing butter and cheese for shipments.
  24. Any peculiarities of factory organization, management or experience.
  25. Markets to which most of the factories (creameries) send their products.
  26. Average number of patrons and of cows contributing to a factory.
  27. Proportion of dairy farmers who are patrons of creameries (factories).
  28. Average distance, and the longest drive, from farm to factory.
- 3. Farm Dairies, or Private Dairying.**
29. Methods common for keeping milk and separating cream on farms.
  30. Is ice or cold water depended upon generally for farm dairies? If not available, what substitutes are used?
  31. How often is butter usually made, how handled until sold, and how packed for market?
  32. The quantity of salt per pound of butter commonly used.
  33. The usual markets for butter made in the farm dairies of the State.
  34. Average price received for such butter by the makers during the past year, and by months if possible. The highest and lowest prices.
  35. Description of any peculiarities in farm dairy practice, anywhere in State.
  36. In what forms is cheese made on farms and to what extent?
  37. Can good cheese be obtained at retail in the country districts? What kinds and forms are preferred by dealers and consumers? What are the usual retail prices?

#### 4. Milk Sales for Town and City Supply.

38. Where milk is sold for town or city use, is it usually cooled before leaving the farm, and how?
39. The best milk markets and the distances milk is ordinarily sent to reach them.
40. How is the milk mainly sent to market? In cans, or jars, and what kinds?
41. Is the shipment or delivery daily, or oftener, and the hours?
42. The usual prices for milk, per quart and per gallon, when delivered to the consumer; average for the year and monthly prices if possible.
43. The same when sold in quantity to sell again. 1st. What do the farmers receive? 2nd. What do dealers pay? 3rd. What is paid for freight and other expenses?
44. Are there markets for skim-milk and butter-milk in any quantity, and at what prices?
45. What is the recognized value of skim-milk and butter-milk on the farm, and at the factories? What disposition is usual for the by-products? Is any special treatment common?

#### 5. General.

46. To what extent are imitations of butter and butter substitutes sold in the State? And how do such sales affect the markets for dairy products?
47. What laws are in force in the State affecting dairy interests, and how are they enforced?
48. What State organization or authority exists for execution of dairy laws?
49. What State organization of dairymen or of creamerymen? Names and addresses of secretaries wanted.
50. The same as to county or local organizations of dairymen, or in their interest.

his specimens but those of others who (2)  
knew his are exact, it might be as diffi-  
cult to identify the species as it is to identify  
a good many of the scarcely described  
Linnaean species.

In this country Prof. Eaton had no diffi-  
culty in identifying the main form of the  
species but he did not appreciate its spe-  
cific character & ranked it as a variety of  
A. filix-foemina, This character, altho' depen-  
ding partly on size & on the cutting of the pin-  
nules, is correctly indicated by the young sori  
& indusia as has already been pointed out. The  
rotund sori & the jointed cilia of the indusium  
are only to be seen on the new fronds soon  
after they open, & there are none of these in the  
Eaton herbarium. The species on this continent  
seems to be confined entirely to the Rocky Mts. &  
Pacific coast. The specimens in the Eaton her-  
barium from Brattleboro, Vt., & from Philadelphia  
are believed to be only densely fruited speci-  
mens of A. fil. foem. incisum, and the same is  
true of all the so-called cyclosorum specimens  
found in the east, at least all that I have seen.  
It ranges from central California to Alaska, & in  
some of its forms is found in Montana, Idaho &  
Washington.

It is hardly necessary to  
cite particular specimens for a species that is  
found in all the large herbaria. The Gray herbarium  
has two Russian specimens from the St. Petersburg  
herbarium, one from the Amur region, the other  
from Unalaska which was the type locality.

*Cyclocarpus* Lohr

Blue Mt. - Sv. Eastern Washington  
Robert M. Hornum Aug. 7 1897  
1098 - W.S. Nash

---

Sv. side Mt. St. Helens, Clatsop Co. Cal.  
5-10000 ft. July 15-21 1897. W.S. Nash

---

Washington - near Woodlawn, Okanogan Co.  
A. A. & E. Gertrude Keller, June 27. 1896  
2000 ft. alt.

---

(Flycatcher Hill, Clatsop Co. Cal.  
near Woodlawn, Mendocino Co. Cal.  
W.S. Brown June 1897 - 10000 ft. alt.  
Cont. 2000 ft. alt. 1897)  
specimens like the Keller ones plus some

---



Did I tell you I had sent  
a friend of Nephrad. Karwins.  
to Pennan to get his opinion  
as to its being patulum?

The more I see of it the more  
it seems to me to agree with  
the description of Karwins.

One of these days I may send  
you my specimens of  
Asplen. acrostichoides and  
Thelypteroides to see what you  
think of them. Swartz gives them  
as two separate species, but  
I should call the latter a variety  
of the former, & it is far more  
common.

B. L. Gilbert.

Nephrodium Rich.

- aquilonare (Mason) Gilbert.  
Boottii (Tuckerm.) Baker.  
— fr. multiflora; Gilbert.  
conterminum strigosum (Fée) Dav.  
cristatum Michx.  
— Clintonianum (D. C. C.) Dav.  
— Laucastrisense (Willd.) ?  
— marginale Dav.  
filix-mas Rich.  
— incisum ? ~~Michx.~~  
Floridanum Hook.  
fragrans Rich.  
Lodicanum Hook.  
— celsum (Palmer) ~~(Clintonianum)~~ 9.82  
marginale (L.) Michx.  
— elegans Robinson  
— Traillae (Lawson)  
~~patens (Sw.) Desv.~~  
Mexicanum Hook.  
patens (Sw.) Desv.  
patulum Baker  
rigidum argutum (Nyl.) Dav.  
simulatum Dav.  
spiculosum (L.) Desv.  
— dilatatum (Hoffm.) Baker  
— intermedium (Willd.) Baker  
thuysteris (L.) Desv.  
— trinatifidum Dav. ?  
unitum glabrum (Meth.) Dav.

- Adiantum tricholepis
  - Polyst. aculeat. scopulium
  - Nephrod. contermin. strigosum
  - Ophioglossum crotalophoroides
  - Botrych. simplex compositum
- Above I am most anxious to obtain.

Species of which I have foreign but not native specimens.

- Polypod. Swartzii
- Taenitis lanceolata
- Ceratopt. Thalictroides
- Asplen. serratum
- " septentrionale
- Polystichum aculeatum
- " acul. angulare
- Nephrod. unitum glabrum
- Nephrolepis acuta
- Ophioglos. palmatum

Any of these would be gratefully rec'd the first five particularly, as I have no representatives of them, either native or foreign.

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23. The usual ways of packing butter and cheese for shipments.
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*Botrychium ternatum* *Oncidenense*  
Gilbert

Plants 10-13 in. high, stipitēs separating  $\frac{1}{2}$ -1 in. above the root, both stout, but not as strong as in var. *intermedium*. Stipe of leaf 5 in. long. Leaf 3-4 in. long, 5-6 in. wide. Pinnules of lower pinnal 1-1 $\frac{1}{2}$  in. long,  $\frac{1}{4}$ - $\frac{1}{8}$  in. wide at base, sometimes deeply pinnatifid, stalks of lower pinnal about 1 in. long, second pair of pinnal cut nearly to the costa with 3-4 rounded lobes each and a terminal one. Lobes round-ended generally entire but very faintly toothed.

This is the least divided form of the species & apparently the least common. It was found in only one locality, on the flat of a stream in Deerfield, Oct. 15. Years ago I found the same form in the Mohawk Valley; & in 1898, after Dr. Underwood had published his monograph on the ternate *Botrychia*, I sent him a tracing of the plant, asking him where it should be placed. He answered as follows: "Whether your tracing labeled 'Mohawk River plant' is an enlarged form of same (viz. sub-var. *intermedium* Eaton) or is Eaton's northern N.Y. type of his var. *australe* I cannot say. It does

not match either, nor is it typical (2)  
obliquum! I have waited thus long  
to have some body give the variety a name  
& description, but these plants having  
come into my hands, it seems to have  
devolved upon me to name it. So I have  
given it a title which will show that the  
type came from Oneida Co. N.Y., altho'  
it has doubtless been found in other  
localities. In this variety the tendency  
to be terminate is not always so pronoun-  
ced as in obliquum. Sometimes it  
seems to be almost regularly pinnate  
& sometimes the basal pinnule is  
pin. lower on the rachis than the  
one which should be opposite.

From an article on Potamogeton  
terminatum in Cent. N.Y. to be pub.  
in April No. of Fern Bull.

On reading over your letter I see that you are referring to the form which I spoke of as naming for Dr. H. Perhaps you are right in regard to that, & in any event I should not do it without his consent after a full & careful examination. I had not thought much about it lately, & hence mistook your meaning when I first read your letter. The Orei-dense I consider good. It can be picked out every time as distinctly as dissectum. I got only 4 fronds of it myself, 2 of which are without the fertile stem. I also got 4 or 5 nice specimens of intermedium, but most of the collection was obliquum. Haberer has all kinds. Do you know whether the Gray Herb. has any specimens from Japan? I have half a notion to send for their material to make comparisons. Your own sheets are so large that I should be afraid to trust them even by express. Dr. Robinson has always been very kind in lending me whatever

I have asked for.



(2)

A. sphenurum; and as that was the first time it had been published as an Asplenium, we must use the full name given it by Aiton, and not hybridize it by using his generic and going back to Linnaeus for his specific. This was Gray's method on dealites with nomenclature, & it is certainly the common sense way. It does away with the fad of searching through obscure books to find an earlier specific than the one in use, a proceeding which has created great instability and endless confusion in the science. It also prevents such meaningless repetitions as Phlegopteris Phlegopteris, and Scelopendrium Scelopendrium.

(1)

In the matter of specific names I have followed Mr. Geo. E. Davenport in adopting the views of Dr. Asa Gray, our most distinguished North American botanist. His theory was that while a plant can have but one name, that name must consist of both a generic & a specific to be complete. A specific alone carries with it no special significance, as it may be used with several different genera & be valid in each case. Take for instance the specific name gracilis. We have Pellaea gracilis, Agrostogramme gracilis, Cyrtosia gracilis and so on. The combination of generic and specific, therefore being necessary to constitute a real name, it follows that we must use this combination entire, as it was originally published by the author who first put the two together. If we use the generic name of one author and the specific of another (unless the former has used it also), we are simply making a hybrid name. Thus Linnaeus, not understanding the true character of the fern, or else mistaking the character of the fern, called a certain species Acrostichum platyneuron. Thirty six years later Aiton, seeing the true nature of the species, transferred it to Asplenium and called it

## UNITED STATES DEPARTMENT OF AGRICULTURE,

BUREAU OF ANIMAL INDUSTRY,

DAIRY DIVISION.

### IMPORTANT ITEMS OF INFORMATION REGARDING THE DAIRYING OF ANY STATE.

#### 1. Dairying, Dairy Farms and Farmers.

1. Counties where dairying is most general.
2. Proportion of dairy farmers to other farmers.
3. Average number of cows to the (dairy) farm.
4. Names and addresses of a few farmers who keep the most cows on the least area. Add, if possible, number of cows and of acres, estimate of feed bought, and average yield of the cows.
5. The improved blood predominating in dairy cattle and its extent.
6. Length of the usual milking period.
7. Length of pasture season and character of pasturage.
8. General character of winter care and feeding.
9. The main supply of water and methods of watering.
10. The months of greatest milk production. Is winter dairying practiced?
11. What is usually accepted as a satisfactory yearly product for an average cow, in pounds of milk or butter (1 gallon milk equals 8 $\frac{3}{4}$  lbs.).

#### 2. Creameries or Factories, and Their Patrons.

12. Number of creameries or butter factories, and cheese factories, in State.
13. Number organized and started within a year. Where?
14. Number closed within a year. Where? and reasons.
15. Are the factories cooperative, joint-stock, or proprietary, and which system seems to best suit the patrons?
16. How large a part of the factories are operated upon the separator plan? What other plans? And what plan best suits the patrons?
17. Where is the largest factory or one having greatest number of separators? What kinds of separators? Largest quantity of milk received per day.
18. At how many factories is the milk or cream paid for on basis of a fat test?
19. The length in days of the usual working season of factories.
20. What Sunday work is usual at creameries or factories?

16

specimens. These myself in 1883  
in company with Mr Pringle  
who told me that the plants had  
retained the same character and  
presented the same appearance  
every year since he first found  
them some years previous.

There was apparently no lack  
of nutriment to nowise a gener-  
-ous growth, yet the plants were  
always weakly, the largest being  
hardly robust enough to stand  
without support.

Southwick Mass.  
March 29<sup>th</sup> 1878

Mr C. L. Savinport

8 Hamilton Place

Boston Mass } Dear

Sir, I have started a small trade  
in collecting native plants for  
cultivation. Orchids, Liliums  
Ferns, Shrubs, Trees, &c,  
Cypripedium, Logodium palmatum,  
&c &c. List sent on application.

If you would give me  
names of parties who deal in  
our native flora, here as  
in Europe, I should appreciate  
the kindness.

Yours most truly  
Edward Gillett

Southwick Mass.

April 3-1880

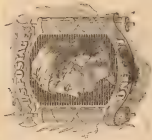
Dear Sir. I do not  
keep these ferns in  
stock, but will try  
to get you some roots  
although I fear it will  
be too late for this spring  
Fossil Herbarium specim-  
ens. I take orders and  
fill them in the fall,  
2.00 per doz. for those  
named in your list

Yours most truly

Edward Gillitt

POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE - THE MESSAGE ON THE OTHER.



Gen. C. Davenport  
Medford  
Mass.

80 Elizabeth Street West -  
Detroit, May 3<sup>d</sup>

1873.

Mr. Geo. S. Davis & Co

Dear Sir,

I have just rec<sup>d</sup>.  
yours of 20<sup>th</sup> ult., and would  
gladly supply any of your dele-  
gates, more especially that you  
mention my friend Miss Horner's  
name; but my collection has been  
largely drawn on of late, & so  
I have but few for exchange  
at the rates you wish for.

I send you, however, specimens of  
Allosorus achoristichoides from Ile  
Royale, L. Superior. As I leave  
in a few days, on the first boat,  
for Lake Superior - and will  
be in hour or so on Ile Royale,  
I may be able to get you better

Specimens of this rare fern.  
I have many of the forms  
you are wanting in; but not  
in sufficient supply for exchange.  
I however add a little plant,  
*Ternstroemia vulgaris*, which I  
think is becoming more rare in  
the East, & may be wanting  
to your herbarium - also some  
specimens of flowering *Sassa-*  
*parilla*. - The seeds I enclose,  
the former plants go separately,  
same mail. -

I would be glad to have,  
if your duplicates, a good  
specimen of *Adiantum cinnamomeum*,  
var. *frondosum*, Gray, which my  
collection is wanting in.

Yours truly  
Henry Gillman

Well-marked specimens of *Aspidium*  
*Spinulosum*, var. *intermedium*,

*delatatum*, & *Boottii*, would also  
be acceptable -  
H.G.



80 Elizabeth Street;—

Detroit, June 4. 1873.

Mr. Geo. E. Davis, Esq.

Dear Sir,

Your favour, for which I am exceedingly obliged, arrived during my absence at Lake Superior. I have only just returned. I found it quite icy there, & had but little time on Isle Royale, not having much opportunity for doing anything botanically — to my disappointment, I expect, however, to be able to visit the island again this season.

I followed your advice in opening your package, ~~and~~ sending it the reverse way; & found that but two of the specimens were at all injured, & those very slightly. I do not know, however, that this way

of making them up would always  
turn out as well, & I consider  
the packages made up between flat  
pasteboards much the safer way.

I enclose you some more of  
the Pinguicula vulgaris, as requested,  
& will be glad to do what lies in  
my power, in collecting, &c.

I have always had little  
success in the varieties of <sup>Asplenium</sup> Planifolium,  
& I wished to compare other views.

It is a perfect Platanus of ferns.  
Again thanking you for the specimens

I am, Dear Sir,

Respectfully yours  
Henry Gilder

Corypha tomentosa grows abundantly on  
our Royal, & was blossoming freely  
when I was there.

H. G.

Mr. Geo. E. Campbell  
& Province St.  
Boston.  
Mass.

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80 Elizabeth Street West,

Detroit, July 3, 1873.

Mr. Geo. E. Dawson, Esq.  
Boston, Mass.

Dear Sir,

Yours of the 23<sup>rd</sup> inst., as well as the package containing the nice specimens of *Obolus* in. have just arrived during my absence from home. I hasten to thank you for your kindness. You must be peculiarly favored in this variety;— here it is rarely seen. Your package arrived in good order; though I think common pasteboard would answer equally as well as the wicker board you send, & not weigh so much.

I have again visited Lake Superior & also Lake Michigan,

but had no time for botanizing to  
any extent worth mentioning, as  
my visit was purely business.

I discovered the Wolffia  
Columbiana here, years ago. It  
is quite abundant at two points.  
I also find the W. Brasiliensis,  
though not so plenty. I

enclose some of the former, at  
your request. It should be seen  
soon to appreciate it. The two  
species are very distinct, though  
such minute plants. I add  
a little paper of flowering Linnaea,  
which is a great rarity.

When on Lake Superior  
(at L'Ance) I was able to  
procure Dr. Engelmann the  
much-wished-for fruiting specimens  
of Abies balsamea, a tree  
which it appears the botan-  
ists are all adrift on -

I procured some excellent specimens  
showing both this & last season's  
cones. I had already procured  
for Engelmann the male flowers.

I have not heard of  
Miss Hosmer, except through  
you, since she left Detroit.  
Is she residing in Boston?

Excuse great haste, &  
believe me, Dear Sir,

Very Respectfully Yrs,  
Henry Gillman.

I was able to blossom (June 5<sup>th</sup>)  
the A. pectinatum byemale. It must  
be a shy bloomer, as I have  
never been able to detect it in  
blossom in our woods, & out of  
30 plants transferred to my garden  
only the one mentioned flowered. I  
have kept the plant for years. H.G.

sent packages for me of weight  
over the regulations, &c., &c. But  
this, of course, I try always to avoid.  
Mr. Scudder of Boston told me that  
even insects were often sent in the  
same way. Such a scientific  
place as Boston should be well  
posted by this time. Of course  
the intention of Goode is to class such  
specimens with "roots, scions & plants":  
I mean "botanical specimens." —

I regret I have no duplicates of the  
typical form of Spinosaurus to send you.  
I shall try, however, to enclose with this  
a specimen or two of Botrychium Lemairei  
which I found, for the first time, on a  
rocky islet off Isle Royale, Lake Su-  
perior, the other day. From my own &  
friends' experience I judge it must be rare.  
I have many applications for it, but  
will spare you some. I should like to  
see your B. lanceolatum <sup>of this species</sup> if you have it,  
there is apt to be mistakes made. I found it  
& B. muticumifolium on L. Superior, years ago.  
Glad to hear of Miss Hosmer, to whom I  
beg to be remembered. —  
Yours truly  
A. E. Gillman.

(80 Elizabeth Street West,  
Detroit, August 30. 1873  
(Not West Detroit))

Mr. Geo. E. Davenport,  
Boston, Mass.<sup>to</sup>  
(No. 8 Province St.)

Dear Sir,

Yours of the  
25<sup>th</sup> & the 26<sup>th</sup> insts. together with  
package of Ferns were duly received.  
I have only just returned from  
another visit, of nearly five weeks,  
to Lake Superior. But unfortunately  
the nature of my business prevented  
my collecting very extensively.

I am much obliged for  
the ferns you now send. The  
specimens of Oreochloa are particu-  
larly fine specimens <sup>examples</sup> of that curious  
abnormality = obtusilobata. A few  
leaves of Aspidium Spinosum are an  
interesting exemplification of the force

Not from the my article on "Scientific Notes at Isle Royale," in "Michigan Journal" of Aug. 9<sup>th</sup>?

of variation in that species. I have,  
as I before expressed to you, but little  
faith in those varieties, <sup>as such,</sup> as I have  
traced them merging into each other;  
<sup>& again</sup> (for instance) you will find the  
Van. Boottii running down by finely  
drawn gradations into *A. Cristatum*,  
or what very nearly resembles that  
species. But this is all most  
interesting to a believer in evolution,  
as I have been from my childhood.  
(I remember a conversation, <sup>on the subject</sup> in my  
mother's drawing room, held  
about thirty years ago, when I  
was a very little child, which  
I can now give the drift of, so  
strongly did it impress me. This  
was before Darwin was heard of,  
at least in his particular dogma).  
Some of those varieties, with further  
modification (progression), & the dying  
out of intermediate forms, will,

doubtless, in the lapse of ages be  
left isolated; i. e. become good  
species, as we say.

Your inquiries as to the postage, I  
will answer by informing you that 5<sup>c</sup> addi-  
tional was charged me on your packages,  
which with the 9<sup>c</sup> p<sup>d</sup> by you would make  
the amount of 14<sup>c</sup> total postage. Of  
course this is not worth troubling yourself  
about. But I will tell you my ex-  
perience. I always, lately, follow  
Colonel Olney's & others' piece of sniffling  
marking such packages "Plants", &  
then inform the p. o. clerk that the pack-  
age contains no M.S. & is to be charged  
therefore at the rate of newspaper postage.  
You must always know more than the  
clerk! or they will be apt to trouble  
you. I never, however, have any  
trouble, & often mail from all sorts  
of places, as well as from where I am  
known. The clerks have sometimes even

80 Elizabeth Street West,  
Detroit, Sept. 22. 1873.

Mr. G. E. Drummond,

8° Proviso St., Boston, Mass.

Dear Sir,

Some of the 10<sup>th</sup> inst. were  
received; but absence from home has delayed my reply.  
The specimens<sup>you</sup> enclosed are clearly *Belyschium lanceolatum*,  
*Angustum*; and compare well with specimens I have  
from Lake Superior & Penn<sup>a</sup>. Better with the latter.  
They appear not quite so fleshy, however. And this is  
a point Mr. Wats (our best authority on *Belyschium*)  
lays a great stress on. But in dried specimens this is  
often difficult to decide. I heard from Mr. Kuhnien, &  
sent him specimens of *B. Lunaria*, as requested. Mr. Faxon  
has not written me, & not knowing his direction I was  
unable to send specimens, which I should otherwise have  
forwarded him, though my supply is running low, from the  
excessive demand for specimens from my botanical friends.  
How distinct *Lunaria* stands! I found *lanceolatum* &  
*marginatipes* growing together on Lake Superior which gave  
me a little shock at first, as they seemed to run together.  
And yet they are evidently good species — though Mr. Wats

congress himself, though sometimes to be found some of  
the ground.

I enclose the Wishesafo observations on your  
note. They are printed in an old language. They  
are generally not so correct for the present, but as  
the note of the Emperor of Russia is not so light; the  
larger ones are exceedingly rare. Few are much larger  
than the others. The largest I ever saw was the  
size of a half dime. — They are found only on one  
beach on Isle Royale. —

Yours truly

Henry Gillman.

Hoisting the stone trays out the colors somewhat, even  
without polishing. H. G.



80 Elizabeth Street West,  
Detroit, Oct. 1. 1873.

Mr. Geo. E. (Liverpool,  
8 Province St., Boston, Mass<sup>ts</sup>,  
(Dear Sir;

I am enclosing speci<sup>es</sup> of  
*Potamogeton simplex* and *Monstera quadrifida*  
I have at hand, rec<sup>d</sup> last evening. - I am  
obliged to you for your hospitality. The specimen  
of *P. simplex* I am glad to get; & should you come across  
more, & have any to spare, try & remember me. The  
*Monstera* is a curious plant. I rec<sup>d</sup> it once from  
Mr. Peck, from Hancock <sup>Island</sup> Maine. Your specimens seem  
more luxuriant. - I have planted some of the seeds in  
my aquarium, & shall look for results with interest.  
It is remarkable that its habitat should be so  
restricted, as it appears so many of introduction. Had  
we a pond in our neighborhood, saved from the incursions of the  
Cotters & vandals of civilization, I would try & intro-  
duce it here. Do you think it would grow in our river? I once  
introduced the beautiful *Helostemum* here. It flourishes, naturally,  
at Monroe, near us. - In great haste, but  
Yours truly,  
Henry Gillman.

Does the var. *Dissectum* of *P. ternatum*, Sw<sup>z</sup>.  
(formerly *P. linearifolius*) grow with you?

# BANCROFT HOUSE,

ISRAEL B. NORCROSS, PROPRIETOR.

East Saginaw, Mich., Oct. 17<sup>th</sup> 1873 -

Mr. Geo. E. Davenport, Boston, Mass.

Dear Sir,

Yours of 8<sup>th</sup> inst. duly  
reached me, forwarded from Detroit.  
The package of specimens I hear have  
also been rec<sup>d</sup> at my house in Detroit.  
I am much obliged for your kindness.  
Did you notice my note on Aplectonum  
hyemale in American Naturalist for  
October? Do you find this plant  
in Mass<sup>ts</sup>? It appears to be a "fly  
blower." I am anxious to obtain good  
flouring specimens. - I shall be happy  
to remember you should I ever collect  
more of the B. Linnaria. I collected  
a little more of the Allium Cryptogramis,  
& have a specimen growing in my garden, on

a sort of sock-walk made for it. It requires  
peculiar treatment; but appears to be doing  
very well. The *B. lunarioides* is our  
Common form of *Potrychium*.

I agree with your remarks on Gillman.  
The great master mind spoke the entire truth  
when he said - "Beauty when adorned is  
adorned the most."

I am pleased to think the specimens  
of Chlorostichite proved so useful to  
your son -

I am here for only a short  
time. When writing, always use  
my Detroit direction; as my  
letters are always promptly forwarded  
to wherever I may be.

In haste, but

Very truly Yours  
Henry Gillman.

I shall be glad of the *Potrychium* specimens.  
H.G.

# BANCROFT HOUSE,

ISRAEL B. NORCROSS, PROP'R.

East Saginaw, Mich., Oct. 27<sup>th</sup> 1873.

Mr. Geo. E. Sargent,

Dear Sir;

Your of 22<sup>nd</sup> inst. is before me, forwarded from Detroit; & I am much obliged for the enclosed specimens of Botrychia — especially the Simplex. The list I can scarcely mark satisfactorily, being away from home; but it is probably tolerably correct. It is possible I may have more duplicates than marked; though my collection has been drawn on so largely, & so little added to by collection of late, that I am in doubt. — Thanks for your remarks on *Aploctonus*. I can easily let you have some of the living plants by mail, from our Woods back of Detroit, as soon as I have opportunity. My garden plants are about a month above ground. — I have never grown *Cypripedium arietinum* in Mass, thanks for your offer

of the roots; but as I have hardly the proper  
 place for them, it might perhaps be better  
 not to disturb them again on the risk of  
 their doing well with me. I would be  
 much obliged, if you succeed in getting the  
 flowers, for a dried specimen. — I see  
 you are acquainted with my friend Wm Booth.  
 I have had some pleasant rambles with  
 him around Detroit, <sup>& Boston</sup>. He is great on the  
 Carex, — & an excellent botanist. — I am  
 very grateful for Miss Horner's recollection,  
 and hope you will give her my kind regards.  
 We had the idea (in Detroit) that she was going  
 to be married; but seem to have been mistaken.  
 Mr. Frost's B. ternatum, you enclose, might well be  
 considered, from the shape of sterile lobes, the var. obliquum.  
 Have you not got the B. lucarioides variety? This, with  
 its large, coarse (somewhat), thick, obovate, kidney-shaped  
 lobes, is our commonest form. — I can let you have specimens.

I am still detained by my duties at this  
 place; but hope to get away soon, as I wish  
 to visit some of my wife's relatives in Ohio  
 before the Autumn is over. It seems  
 rather wintry already.

With many thanks for your kind offers  
 to exchange &c. — I remain  
 Very truly Yours  
 Henry Gillman.

I enclose a pair of my seeds for your boy, thinking they may be  
 used for a little piece of animal, but a relative school. Please him. The first flower  
 was rec'd by a little piece of animal, but a relative school. Please him. The first flower  
 was rec'd by a little piece of animal, but a relative school. Please him. The first flower

Cheboygan, Michigan

October 21. 1875.

Mr. Geo. E. Davenport  
& Hamilton Place  
Boston, Mass<sup>ts</sup>

Dear Sir,

Yours of the 30<sup>th</sup> ult<sup>o</sup>, reached me on the 17<sup>th</sup> inst., forwarded to Mackinac, where I stopped two days on my way to this place.

In regard to Batrachium lunaria, I am unable to answer you until I can have recourse to my specimens. As soon as I return home I shall be happy to give you the desired information. I would be glad to know the reason suggesting your inquiry, by all means. - I saw Dr. Gray's note; but have not much faith in such varieties, as there described. Gray says

as to stipe segment, "nearly sessile". - Can he have made such a mistake as not recognizing B. muticariae folium? It is time he called upon the specimens of this species [B. lanceolatum] in Detroit, I have

spent the summer & fall on Lakes Superior & Harow. I have added some interesting & rare things to my collection, such as Pterispora Andromeda, Selaginella selaginoides, &c. Use my Detroit direction in writing, as my letters are forwarded to wherever I may be. Yours Truly,  
Henry Gillman.

I noticed your advertisement.

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but saw not a blossom, as usual.

I shall be glad to let you have any variety coming in my way; but you must not expect much from one so overtaxed as I am now - a - days; and the worst of it is I do not expect it to grow better but worse in this respect.

Thanks for your extract from Eaton.

Hoping these brief lines may prove of interest, if not altogether satisfactory, I am

Truly yours  
Henry Gilman.

I have never been able to procure Augström's monograph. Have you seen it? - I think your friend Mr. Pingle must be the gentleman to whom I sent some *Lis lucustis* lately, from the Straits of Mackinac.

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80 Elizabeth Street West,

Detroit, Nov. 25. 1875.

H  
Mr. Geo. E. Davenport,  
8 Hamilton Place,  
Boston, Mass.<sup>ts</sup>

Dear Sir: -

Yours of 20<sup>th</sup> is rec<sup>d</sup>.; & in reply I would say that all my specimens of *Botrychium lunaria* Swartz (From Lake Piquette, Mich.) have the stam. segment sessile or nearly sessile. Some four specimens have a greater approach to being petioled than the others, & would doubtless be considered - ed petioled. Gray's description is "nearly sessile".

As for the confounding of *B. lunaria* & *B. matricariaefolium*, I cannot see occasion; though *B. lanceolatum*, Aug. is frequently confounded with the latter. Walt., the best authority on *Botrychia* (in this country), writes <sup>in separating these last</sup> me that, he relies on the more fleshy <sup>stam.</sup> pond of *lanceolatum*

as a distinction. You sent me  
from Sudbury, Mass. good lanceolatum.

Years ago I collected at Lake  
<sup>State of Michigan,</sup>  
Superior, all growing together in an  
open Copse, on sandy bank, the  
<sup>+ larger ternate</sup>  
small forms of B. Matricariaefolium,  
& the small as well as the larger  
ternate forms of B. lanceolatum.

The circumstances were decidedly  
~~not favorable~~ <sup>favorable</sup> for concluding them all  
diverse forms of the same species.

Gray pronounced all B. lanceolatum, Gray,  
which then had no place in his  
"Manual". The following year, <sup>or later,</sup> I  
found in dense beech woods, also  
at Lake Superior, the small simple  
form of matricariaefolium. This  
he also pronounced ~~matricariaefolium~~  
lanceolatum. This accords with what  
you write me; & the specimens you  
saw in his herbarium are probably  
the plants to which I refer. The  
lanceolate divisions are to me the most

reliable point in lanceolatum as  
separating it from matricariaefolium,  
in which the divisions are <sup>obtus</sup> ~~obtus~~ or  
rounded. — The ternate, larger forms  
are difficult to distinguish otherwise.

But B. lanaria Swartz, as I  
know it, is a most pronounced un-  
mistakable species. —

Gray is probably terribly over-  
worked of late with his California  
plants, &c. Knowing this, I have  
refrained from writing him very  
much, <sup>of late;</sup> though I have ever found  
him the same, I must add —  
always obliging. He was never  
inclined to be exuberant in the  
letter line. I regret that any  
such feeling as you described  
should have arisen.

Four days ago, shortly after  
my return, I found an abundance  
of Aplectonum in our north west woods.  
I was here at time of flowering, <sup>also,</sup>