

OHIO GEOLOGICAL SURVEY,

COLUMBUS, O., Oct. 8<sup>th</sup> 1885.

Sir, William Dawson.


My dear Sir,

I send forward an interesting slab that I have had in my hands since the Ann Arbor meeting of the A. A. A. S. The specimen was found this summer by Rev. H. Herzer of Cleveland, O. Mr. H. was at Ann Arbor and on leaving entrusted the specimen to me. I will beg you therefore to return it to me after making such study of it as you desire for publication or otherwise.

I have been studying the same formation for a year or two. In 1884, I collected specimens which I also enclose. My samples come from the Bedford Shale within the city limits of Cleveland. Mr. Herzer's are from the Bedford Shale at Bedford, Ohio

Dear Mr. Oakes

Your parcel with specimens  
from Waresley of *Chamaecrista* was among  
them.

The specimen marked with  
mark on the reverse specimen, certainly  
and is a true *Chamaecrista* of  
*Psilophyton*. This  
being a little of the   
fittest or possible specimen  
with traces of 3 or 4 from of  
the primary. See my paper  
on the plants of Dec. 1882  
1882 P. 123 Fig. 1. 1a. It may  
belong to the same species with  
*Trichophyllum* *laevigatum* of Seeger  
See his Report on *Peruviana*  
Cue for Page 64. In that  
report he says that Prof. Andrews  
had found *Trichophyllum* in  
Waresley sands of Ipswich &  
described it? has he done  
it? I have not seen it



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My own specimens, I had taken out of the list of *sporangiites* as found in our black shales, finding marked differences in the forms shown.

Mr. H's slab presents an entirely new phase to me, in the branching and segmented forms seen on one corner of the slab. Prof. Hall counted this a *hydroid* and named the type *Plumulites*?, if I remember right. I was desirous that you should see the fossil at Ann Arbor and regretted that we did not enjoy your presence and aid at the meeting.

I send these specimens now at the suggestion of our friend Mr. B. W. Thomas of Chicago to whom I forwarded a little of the material for mounting on microscopic slides and study therewith.



Now the correct print is  
 this. All the specimens  
 of this peculiar *Phlebotomus*  
 which I have seen have  
 been species with very sharp  
 or mucous and I have  
 found the very number  
 attached to the stem less  
 green also though there  
 was the print. In some  
 cases the same print  
 and it would be well  
 to search the beds for  
 better specimens and to  
 compare to ascertain whether  
 of them are the print or  
 when can this be the print  
 of *Phlebotomus* and be  
 some perfectly a *Rhynchopoda*  
 plant.

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I shall soon take an opportunity to collect more largely of the material and will supply you with all you wish.

You need return only the slab marked as Mr. Meyer's. I shall be very glad to hear from you when opportunity allows.

With great respect,

Very truly yours,

Edward Orin

Neuherry's  
waverly

Cuyahoga Shale  
Berea Shale  
Berea Grit  
Bedford Shale  
Cleveland Shale  
Erie Shale (blue) } "Black Shale"  
Huron Shale

Precisely similar forms in Berea Shale