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Newburyport Nov 8, 1896

Friend Davenport,

I sat down  
a few minutes ago to reread your  
article on the hybrid fern — which  
by the way is a very good one —  
when I had a new thought occur  
to me which I am going to give  
you while it is fresh.

Meehan, remarks in Vol  
1<sup>st</sup> of Series II of his "Flowers and  
Ferns of the U.S. ~~that~~ in connec-  
tion with his illustration of  
*A. ebenoides* (I quote from memory)  
that attempts have been made  
to hybridize ferns by sowing  
the spores very thick so that the  
prothallium will be crushed.

up edgeways with the idea of causing the antheridium of one prothallium to enter the archegonia of another. But he remarks that not much success has been attained in this way and says something about there not being one chance in a million of this occurrence taking place.

~~of these~~ "The minute anatomy has been carefully studied in only a few of our native ferns and fewer still have been watched through the phases of their life history" (Underwoods Our Native Ferns, page 74)

"In some species notably the Ostrich Fern the two kinds of sexual organs are produced on separate prothallia so that the plant becomes dioecious" (P. 20)

But how if either *A. cristatum*  
or *A. marginale* is dice cious  
Who has ever investigated this  
If any one it is probably Douglass  
Campbell. I have not access  
to his book on the Development  
of Ferns and Mosses but it  
is quite evident that if one or  
either of the parent ferns of  
our species produces dice cious  
prothallia that then this case  
of ours become entirely clear  
for there is evidently no reason  
why the antheridia of one sort  
of prothallium should not enter  
the archegonia of an other sort  
and as the ferns are very near  
allies they ~~not~~ would probably  
fertilize it this occurrence ta  
king place just where we  
should expect that is at the  
foot of deserities where the

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two ferns meet. At any rate  
that is the way I am betting  
until I find out more about  
it. If no one has happened to  
think that the ~~question~~ fact  
of dioicity has a bearing on the  
hybridity of ferns I don't know  
but what I shall investigate  
it myself.

Respectfully

Raynal Dodge



Dodge, Raynal. 1896. "Dodge, Raynal Nov 8, 1896." *George Edward Davenport correspondence*

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