


Matthew July 69 I-John N.B. 29 Dec 1868

My dear Sir,

Supposing that any fragments of land plants which we may have collected during the past summer will be placed in your hands for examination, I send the following particulars respecting them.

1st The Dadoxylon sandstone at Lepreau is as well exposed as at I-John. Conifers are especially abundant in the ledges at Lepreau and I nibbled at one bed ^{of shaly} which seems in the species to be a counterpart of the Neuropteris bed or Plant bed No 2 of Duck Cove. You will find a little bundle of fragments among the specimens forwarded. I had not proper tools when I visited the place, and did not care to spoil the ledge. I noticed nearly a pinacle of Neuropteris as large as the palm of my hand. I collected a number of specimens of the larger fossils Crinoids &c (in sandstone) with anthracitized bark

for microscopic examination. The
measures are a good-deal faulted
here - This locality promises well -

2^d At Cunningham's brook on the
S^e side of the Nevers Hills we found a
fragment of Cordaites about $\frac{1}{2}$ inch wide
and a peculiar organism of a lance-
oval form  ^{or oblong}, apparently a seed or attach-
ment of seed of some plant - very abundant
on some layers - This locality we think
below the horizon of the S. John plant beds.
specimen forwarded. This in W^{est} corner of ^{part of Nevers Co.}
on Nevers R.

3^d - At Perkins' brook N. side of the
Nevers hills is a thick bed highly charged
with vegetable matter, did not spend
much time here but met with Neuropteris
polymorpha and a Cordaites like Robbie's;
poor fragments forwarded - SW corner of
Queens Co.

4th - At Cox's Brook in Flume Ridge
near N. border of Charlotte ^{(west side of}
^{about the}
middle of Magaquidavia R.) gathered a
fragment of a lycopodaceous plant ^{(the}
^{stem)}
from a horizon either at or a little
above the plant beds of S. John -

5th - At Oak Bay a Calamites and obscure plant remains mingled with shells of mollusca - will be found among these - now in Mr Bidwigs hands -

6th Visited the plant bed in Perry in company with Mr Jethro Brown and made sure that it was in the Perry or St Andrews sandstone - This Prof Bailey and I found every where inseparable to the representations of the Cordaites shales and Dadoxylon sandstone and Passagemaddy Bay - The Lingulella & Modiolopsis of Perry so far as we can make out, come from the base of the Cordaites and summit of the Dadoxylon -

We did not spend much time looking for plants remain last season as the Professor (Baileys) was enjoined to devote himself to structure but if a good collection is desired for the Survey cabinets I think it can be had

from LeBreun - Perkins Book also is not improving -
Speaking on this subject reminds me that the
\$20 for expenses in distributing the collection of the
Nat. Inst. Societ^y applies to the whole collection of which
a part is here. If however you ~~have~~ compromised in any
way for the whole amount, I will make up the balance.

Please notice this point when you write again -
If I should be employed next spring in surveying
work - I would like to spend the early part of the season
in studying more carefully the Geology of Perth & Lanark's
I am a little dubious about the ^{of the literature} ~~appear~~ part in which
the ~~plates~~ ^{graphs} ~~had~~ are - The success^{es} ^{in a good deal of} deal ~~is~~ ^{is}
that in Canada, but less voluminous

I remain
Yours very sincerely
A. Matthews.

P.S. The Perkins locality holds about the same
position in the series as the plumbid of Alptm