

16. Hart Street, Bloomsbury St.

17 Nov 1842

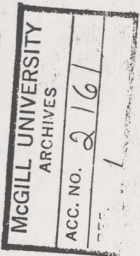
My dear Sir

I was very glad to hear from you & to receive so much information respecting the East river geology. You may well suppose that as I spent nearly ten months in the field in America, only one of which was spent in Nova Scotia & that during the whole time I was as actively employed as when you saw me I have now the materials for a great many distinct papers. One of these on the Lake ridges of Erie & Ontario, & on the drift & denudation of the St. Lawrence valley & the Niagara. I am now about to read to the Geological Society. It has cost me many weeks.

About 36 boxes have arrived safe, the contents of which I am beginning to arrange in new cabinets. I cannot come to Nova Scotia for some time, but will endeavour to put the fossils in hand, as Mr. Lonsdale has volunteered to help me in regard to corals, the most difficult of all, & Mr. Stokes is to examine your Carboniferous wood for structure.

Any specimens you like to read of this kind shall be returned to you. I will send you the earliest news of any results which they give me. I cannot study yet your ground plan & sections, but when I get at the paper I will write to you fully on them, & shall give the exploration of the Schubenacadie in my paper as the fruits of our joint survey. Your plan is so useful that I should be glad if you would draw up a similar one of what we did on the Schubenacadie.

..... As to the Gypsum I see almost all the French consider that of the Alps as limestone metamorphosed. D. Gesner has just written to say that the veins of gypsum, which you remember he represented as penetrating the coal series on north side of Bay of Fundy in a letter which I showed you, are in sandstone inter-
time



true coal plants. He says that there is limestone
shale bituminous shale & sandstone containing veins
& broken strata of gypsum. The shales contain
Stigmaria & other coal plants. The question will
be whether there is gypsum of two ages. Professor
Sedgwick thinks he has traced true coal plants
into the magnesian limestone, but I must inquire
on this point. I will talk with Daniell about the
discoloration of beds by sulphuric acid, which is
most striking at Minudie. I shall be glad if
you will put down any facts, generalizations, or
speculations, on what we saw together. I shall
not object to pay the carriage of any box of fossils
which you may send or lend me. All my boxes
have come safe, some by packet, some by steamer.

When I hear the names of any Nova Scotia fossils
I will write - Pray remember me to your father &
mother & to Mr. W. Ross. We are writing to Mr. Poole
by this post. Believe me

Very truly yrs
Chadwell

To J. W. Dawson Esq
Picton, Nova Scotia.

