

May 25 71

Montreal May 25. 1871

My Dear Leakey

your letter announcing the failure of the Penn. Survey never reached me, it is only through Genl. Hal. Dean of the indefinite postponement thereof. I am sorry for many reasons. One was that I longed for an occasion to get back to the United States, another that I feel an intense curiosity to see the X^{re} rocks of E. Penn. studied out, & that there been for the past year turning much of my attention in that direction. Dr. Schuchert's note from Proc. Phila. Acad. Sciences Dec. 1st, by R. S. D. Schuchert, which is very important indeed, if correct: Drill. That in the mica-schist of Phila. on Wayne street on the farm town N. N., are great blocks or boulders of hornblende rock well rounded & imbedded in the soft mica-schist. These are suggested to be perhaps parts of the latter "primitive crust" broken up and imbedded. Now, from my comparative studies I have divided the greenish rocks of E. Penn. into 3 divisions, I the north Mt. Green. Laurentian. II. the green Mt. Green including the serpentine, steatite & diorite belt near your city III the mica-schists with

Staurolite garnet & fine grained gneiss - the white
Mt. series. The so-called "altered ^{rocks} principal" of the
Chester & Montgomery valleys, according to Rogers,
are often indistinguishable from the II & III, and
although by him regarded as much more recent
I believe them to be the same. There are many facts
which support this view to be found in his descrip-
tions. Similar relations occur in S. Carolina
(Sieber) and in Maine - N. Scotia elsewhere -
notably in N. Michigan: Now if it can be
shown that the mica-schist, III holds masses of
older humbler rock. These are probably of II.
which abounds in such rocks, and probably under-
lies it inconformably. Can you through Dr. R.
or some of your local geologists get me small
but characteristic specimens of these two rocks?
perhaps you will yourself visit the locality -
I only know of this from a notice in Nature.
It would much interest me to know the dip of the
mica-schist and the variety with at this locali-
ty. It is it truly the garnet-bearing gneiss?

staurolite mica-schist of your neighborhood? A rounded garnet is very secondary origin, as suggested by Dr. R., hence my doubt. Rounded \times s are very often formed in situ and besides wherever there are such garnetiferous schist the structure shows the \times s to be evidently of ~~rather~~ posterior formation. My Indianapolis address, already in print, discusses at much length the history of the Appalachian \times s from Newfoundland to S. Carolina and will, I hope, be of permanent scientific value.

As to denuded or made-up rocks. I shall read a paper on that subject at the meeting in August.

I am sorry for many reasons that I missed your letter. It is so sad that I hear from you that your epistles are precious. I look with hope to the great success of my new coffee press. If I can make some money ^{out} of that, speedily, I may, next year, go to Boston, where entre nous. They will be glad to have me for the first chair of the Institute of Technology. I long to be away from this place. Where none know anything

but Dawson - but cannot move for want of means
Could I get somewhat to do and do the work
living in Boston - I would go there - I have mind
to adventure myself to the highest bidder. It is a pity
for one who has labored as I have & been slave -
dependent upon the Caprice of a Government like this -
Do you know of anyone wanting a Professor of Geology
Chemistry or Metallurgy in your region - I am ready
"to be disposed of at a tremendous sacrifice" -

I hope to get down to New York in a few days & hence to
visit Boston. This summer I propose to spend a few
weeks at least, amongst the rocks of N. Brunswick
with Bailey, about middle of August, when I will
go to Indianapolis. You will, I trust, be here -
Please give my best regards to Ann. Lesley. I have
never written to thank her for the kind letter which
she wrote me by your request in March last - I
hope that she is well & that you are quite strong now,
and ready for the survey which it is should they under-
take it. Remain, my dear Lesley -

Always faithfully Yours
Prof. D. P. Lesley - 7. Sterry Hunt