

Rideau Club,
Ottawa.

Jan 1. 95 -

My dear Father,

I have seen of the
27th & 31st, & have also
received the cost, from Mother,
which was fit admirably &
Romanus book, which I shall
read, but remarkable if you
should want it, please let me
know, for I may not be able to
get through it at once.

I wish what you say about Winchell's
table, but probably you noticed
that the table comprised two schemes,
that of the 'Carrollian papers', official
U.S. Geol. Survey & his own.
Neither way to correct, but on the
whole I think Winchell is worse

being carried than the
 'Correlation papers'. The U.S. Geol.
 Survey is bound to the Cambrian,
 which, according to Van Heise &
 the Survey I suppose, includes not
 only the Keewauwan, Animikie &
 Huronian, but also the Greenly
 Series. A map was published some
 years ago showing all this under
 one colour & this is surely a
 worse thing than anything of kindred.
 I have not looked into this question
 myself enough to form a definite
 opinion, but my own view is to feel
 that it has now arrived at a
 stage when it must be treated
 with great caution, & statements
 not rashly made. We have mapped
 the Keewauwan, Nipigon & Animikie
 conjecturally as Lower Cambrian,
 practically without fossil evidence.

& in disregard of the dictum
 that the Ocellus zone, even if
 found must be the base of the
 Cambrian. Below the Amur
 Caves a but unconformably a lepre
 of time & below all this the Harmonian,
 under its various local names,
 & the Greenville Series.
 As to the Hortwig's series - Newer's
 work upon which this was based
 must be revised. It was largely
 upon lithological theories of
 Hunt - it evidently needs re-examination.
 The Harmonian has so far never
 been found in contact with the
Greenville Series, but their relations
 remain to be worked out in some
 careful way in the region between
 the Copper Ottawa & Hortwig's Co.
 A very casual examination of the

County between the Ottawa &
 Kingston Corridor, seemed over to
 show that it is possible that the
 Hastings Series may possibly be
 divided between the Grenville & the
 Huronian, but what the relations of the
 two belts are there appears the
 we would get to show. The
 relations of the Huronian to the Laurentian
 as explained by Logan rested on
 strontium where Huronian &
 Ottawa gneiss were found together.
 Now most of the Ottawa gneiss is
 being to be understood as foliated
 granites, of which the foliation at
 least is less in date than the Huronian.
 The Laurentian in fact, as we have
 been calling it, consists of two
 things - foliated granites & folded
 rocks like those of Grenville & what

The relations of the latter may be to
 the Huronian is yet unknown.
 Logan could not allow for
 this confliction, ~~for~~ as the
 theory held then was that the
 foliated refracted bedding was
 or less obscure.

I don't remember where Logan defined
 an upper ~~the~~ Huronian & certainly
 do not know that he persisted in
 any such definition. The attempt of
 the A.S. geologists has been to confine
 the 'original Huronian' to certain
 rocks about the South St. Marie
 region & to claim that 'later' the
 Huronian was wrongly made to
 include the crystalline schists of
 wide areas. Now Logan by early
 relegating the schists of Lake
 Lewisian as Huronian & w
 violence has been done to his definition.

It was perfectly competent for him
to extend the limits of his new
System as far as he thought proper.
In his work of 1855 - he Coloured
Huronian, Cambrian, Keewenawan
all as 'Lower Cambrian of Sedgwick',
but later he separated the Huronian
from the two last. The U.S. geologists
(official) have thrown everything
below (or supposed to be below) the
Stenellus zone & other the fundamental
Series into the new 'Algonkian'
leading back for the time to chaos, but
with the widest intention of bringing
the Huronian proper out again later
under the new name & finding
other new names of their own for
the rest. Winchell is quite sound
in counselling this & deserves
support in doing so I think.
As for Algonkian, no objection can

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be taken to the name of it
applied to something not already
named. Suffering the Animikie
to represent Lower Cambrian in the
Lake Superior region, an Algonkian
gap might be interjected between
it & the Huronian, for which
representation had way be found
elsewhere. This might, I think it,
be what you refer to as the
Etehemian, or something of
that kind. There is undoubtedly
a very great gap between the
Animikie & the Huronian
in the Lake Superior region.

It does not seem to me that the
whole question is ready yet for
formulation, but that we should
keep the advances made &

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advance slowly into the
intermingling rocks.

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Jergel
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P.S. I got a copy from White
of his 'Bear R. formation'. White
knows all about the Belly R &
Denaryan formations - I have often
talked & written to him about them.
He thinks the Bear R. is older
than both of these. The Belly R I
believe is really equivalent to
Mack & Hayden's 'Judith R' of the
Upper Wisconsin Section. White I
think believes this also, but rather
than admit a mistake by these great
men, he prefers to continue the
error! He has, as I suppose you know,
scored some years ago his geological
convictions. This paper was in doubt -
written before this was accomplished.