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Small handwritten notes.

Niedecker, Lorine

[s.l.]: [s.n.], [s.d.]

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Might take
bird traps on
trip

Signs

The pause just here
of voyagers;

There is such a
thing as fossil
Ice — fur
the last ice age

If shd. want it

Chapter - The Natural

History of Niagara Falls,

in Teale's Journey with

Summer

In Manitoba the
Canada Goose nests in
fish boxes at
Reynie, on open
islands at Dog Lake
& on muskrat houses
at Delta. (Delta)

Reyn

Waterfowl book notes
and Journey date
Summer - Edmund Way Teal

International Peace
Garden — on the American
Border symbolizing peace
between the two countries —

In the midst of the Turtle
Mts. — midway between
Atlantic + Pacific Oceans.

1 ~~2~~ gro of peace

Ition of Manitoba 10
and N.S. 3.

10 groes along eastern boundary
of park (Turtle Mt,
Provincial Park)

Boisevain — tree
at Int. P. Garden

Azate Pato

near Soria on highway 2
grasses, epulata &
detritified wood.

S. Dakota -

~~Minnesota -~~

Montana -

Pagetwash - Artemisia

(grey-green foliage

like any wormwood)

Iron & metal sank
deep below surface.
The liquid mass
cooled & elements
tended to draw
together to form
crystals — i. e.
quartz, mica
or hornblende
Over the ^{crust} granite
formed, by cooling over
the molten rock.

etc. Web of Life
back pocket of V.

003.19.

284

Hot Springs
above concentra-
tions of rare
minerals 25
intensity of the earth-
still hot down there
boiling up these
rocks. Because
surface of earth
was at one time
a molten material.

Minnesota no Shore
granite = igneous
rock - gray or
pink - of crystalline
quartz, feldspar,
and mica

Schist - a
crystalline rock
that can be
easily split into
layers.

Manitoba - here
are the oldest rocks
in the world - 2.3
billion yrs - old.

Geology
&
Canada

Great Lakes Region. Houghton

The bedrock of the Gr. Lakes region forms the Cambrian shield (n. of the lakes & extending down to central Wis.) These rocks are from not more than a half-billion years ago. Some laid down in extensive areas of salty or fresh water, but they have been metamorphosed into slates, quartzites, phylites, gneisses or other types. Large areas of the shield contain granite and other igneous rocks, cooled from the molten state. Earth forces have folded these rocks into mt. ranges. L. Superior almost entirely in Cambrian. ("marine water when the seas came over")? Paleozoic - limestones, sandstones, dolomites, shales.

No evidence that the regions has been
under the sea since Paleozoic
Time.

True tides, caused by the
attraction of the moon & the sun
are negligible in the G. Lakes:
The Lakes (Gr.) have been known
to exist for 20,000 yrs.

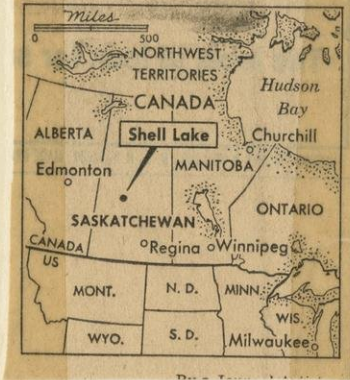
Upper Cambrian sandstone
marks the end of Pre-Cambrian
time. End of Pre-Cambrian
is marked by granitic intrusions.
Coral reefs of Silurian Times
found in Ill., Ind. etc.

Burrowski - The Common Sense
of Science -

No man has made so deep a mark
on his time as Newton —
unless it would be a man of
action, Cromwell, or Napoleon

" if we want the whole Newton,
the man and the manner, the
large nose and the strong throat-
print of his style, then we
must read the Principia and
the Opticks. Only in this way
will we get the personality &
the movement of the work, the
massive ease & the fluent
assurance which the Opticks
shares strikingly with Antony
and Cleopatra.

termed child. The Petersons



If going anywhere to Wis
look at old book in basement
of Fort library -

Wis. Geological & Natural
History Survey - Bulletin
No. IV. On the Building
and Ornamental Stones
of Wisconsin. 1898

Granite is composed of
at least two minerals—
quartz + feldspar
& others are almost certain
to be present.

Obsidian (Mexico +
Iceland) is natural
volcanic glass.

calcite (mineral formation)
is the constituent of the
rock called limestone

Either calcite or dolomite
can make up marble.

Basalt is ^{really} a rocky
~~texture~~ mixture of many minerals.
all minerals + rocks have
their origin in a body of
molten rock called magma;
this molten rock eventually
becomes the igneous

rocks + minerals.

Hot rock is prevented
from melting by
pressure upon it or what.
When, however, the pressure
is relieved anywhere
by cracks in the solid
rock above, or heat due
to radioactivity reaches
the melting temp., the rock
slowly begins to rise
in a molten state.

As this magma comes to rest
in a cooler place it solidifies
into igneous rocks:

And metal-bearing solutions
of many kinds accompany
the rise of magma:

2/ as the molten rock cools
& becomes solid, large
quantities of liquid & gas,
charged with mineral matter
are given off. Leaving the
igneous rocks behind them
they make their way
slowly toward the surface,
forming mineral deposits
wherever conditions are
favorable. During
the long-distance migration
of the solutions that have
been expelled as magma
~~and~~ ^{ore} deposits of gold, silver,
lead, zinc & other metals
are produced. Veins.

Lava has flowed
since geologic time
began

Beneath a superficial layer of soil, the crust of the earth is composed of rocks.

Rocks for the most part are composed of minerals (which are inorganic chemical compounds) which are usually crystalline in structure.

Below the earth's crust the rock-forming materials ~~are~~ remain in a molten state.

When ~~it~~ flows up into the crust (this magma or lava) it forms igneous rocks. Rate of cooling determines character of rock.

Sedimentary rocks are built up either from rock fragments or substances in solution from shells & skeletons of ^{sea} animals. Commonest types include conglomerate, sandstone, siltstone, shale & limestone. Conglomerate = mixture of sand,

gravel & larger rock fragments cemented together with clay, calcium carbonate, silica, or iron oxide.

Sandstone = finer-grained than conglomerate & consists entirely of sand particles & cementing material. Shale = extremely fine in texture, composed of solidified silt & clay respectively.

Limestone = calcium carbonate (calcite) may contain considerable amounts of dolomite (an impurity). Soft. ~~leaf~~

Coral can be regarded as a special form of limestone.

metamorphic — ~~the~~ lines in the rocks run parallel, tendency to split in these lines — this is known as foliation. Slate is a common

metamorphic rock, formed from shale, & shows almost perfect

What happens ~~then~~ sometimes -
igneous rock at bottom, then
sandstone from sand piles on
top and then a change to
quartzite.

On the beds of sand were
deposits of clay which changed
to slate, limestone which
became dolomite + iron
which remained in its elemental
state.

Manitoba — Here

the oldest rocks
in the world

First sight of Pictured
Rocks was Radisson's
in 1658

"These coasts are most
delightful and wondrous
... for Nature made it
so pleasant to the eye,
the spirit and the belly."

Grand Portage near Ontario's
Pigeon R.

Sours Swamp
refuge - northern
Winn. near
border of
Canada + S.D.

Powder R. with
black sand

Our ^{LN} magnetrons are ^{probably}
only 40 million years
long in projection

Our magnetrons can
project only 40 million
years. (JBS Haldane)

Rimbaud — ~~the~~ from
~~his last~~ his last recorded
from Olson took + made

his own —
" If I have any taste
it is only
for earth + stones

also

Daily I dine on air,
rock, coal, iron!...

Lower Souris
Refuge in
North Dakota.

"Everybody knows the
superiority of L. Sugenor
whitefish"

Bela Hubbard

These low granite
& metamorphic hills

Here at ^(before life appeared on the earth) Agassiz
Rock Spring
city (Marguerite)
"but at the time of
which I speak, all was
a solitude"

Bo you
Indians - for town
join

~~The day of copper~~

~~masses~~

masses of quartzite
~~rock~~ on which grew
thick moss & out of
~~this~~ at a dense
forest of spruce

~~Mackinac Budge~~

J. B. S. Haldane -

" So far as we can tell, man is the first animal possessing the power to determine his most evolutionary destiny, but there is nothing in the record which guarantees that he will use that power wisely."

"Genus Homo has already existed for 3 or 4 hundred thousand years; the species Homo sapiens has about 50 thousand years to its credit. If the average applies, we may expect

nearly or quite a half-million
years more of existence for our
Race and then either oblivion
as we reach the end of a blind alley or
progressive development into some
type of descendant better adjusted
than we to the total environmental
factors of the time."
Enough petroleum to last
us 2000 or 3000 yrs. into the future

2/ foliation; splitting into thin, smooth layers.

Marble - when molten magma intrudes into beds of pre-existing rock - without foliation - and marble is formed from limestone. Sometimes magma coming into rock causes changes resulting in copper, iron + tungsten - reacts rock with gases in the magma.

All above comes under study of petrology (rocks)

Sandstone metamorphosed into quartzite

Purple-grey rock
in Barabar Ranges are
quartzite

My rocks
identified by
Knege, Lima Center
Rock Museum
in big box of rocks.

Wells — I am an ~~effluent~~
in the conscious & less conscious
of this ^{the race} stream, an effluent
in the stream

Wells — "something is thinking here"
"we are part of our flow ... We
are all descendants of all the ancestors
of everybody." "And there is
something more. We are all going to
mingle our blood again."

H. G. Wells —

"You see that from this point of view
... our individualities, our nations
& states & races are but bubbles
& clusters of foam upon the great
stream of the blood of the species,
individual experiments in the
growing knowledge & unconscious-
ness of the race."

H. G. W. P. 500