

[From the PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT
OF SCIENCE, Vol. XXXVIII.]

NOTE ON THE MAPPING OF THE ARCHÆAN NORTHWEST OF LAKE SUPERIOR. By Dr. ANDREW C. LAWSON, Ottawa, Ont.

[ABSTRACT.]

THE writer exhibited a general geological map of the Archæan country between Red River Valley and Lake Superior, showing the results of recent investigations which he has been conducting for the Geological Survey of Canada. The proof of a new geologically colored map of the Rainy Lake region, shortly to be issued by the survey, was also exhibited to illustrate the details of a portion of the general map. The relative distribution of the Upper and Lower Archæan, as displayed on the map, was shown to be peculiarly interesting and instructive. The Lower Archæan or Laurentian, consisting of various, more or less foliated granites and syenites, which have hitherto been regarded as the oldest rocks, was shown to occupy large, isolated boss-like areas which appear to be irruptive or intrusive through the schists. The general mapping of this portion of the country, where denudation has left the Upper and Lower Archæan in nearly equal proportions, strongly supports the view that the Laurentian rocks are of later age than the schists of the Upper Archæan and were interrupted through them.

The importance of careful mapping as an aid to the solving of the profound problems of Archæan geology was dwelt on, and other evidence which the writer has adduced elsewhere in support of the irruptive nature of the Laurentian was referred to.

SALEM PRESS PUBLISHING AND PRINTING CO.