

numerous dykes of diabase, diorite and other constituents together with the occurrence of the ophites, serpentines, jaspers, graphite, mica galena and other minerals and rocks (characterizing that period of time in the history of the earths' crust in our locality) are all questions which naturally present themselves for study, furnishing abundant material for investigations in mineralogy and petrographical science of the highest type.

The vast amount of mineral wealth which the Ottawa region affords is known to be such as to predicate a bright future for mining operations at our very doors. The Buckingham, Bristol, Templeton and Hull mines of iron, apatite, mica, &c., are still in their infancy, new, rich and valuable deposits are found almost weekly by experts, so that this region bids fair soon to become a very extensive and important mining centre.

II. In the Cambro-Silurian or Ordovician deposits at Ottawa we find a continuous sequence of sedimentary rocks from the Potsdam formation through the Calciferous, Chazy, Bird's Eye and Black River, Trenton and Utica to the Hudson River formation with the possible occurrence of the basal beds of Silurian rocks east of the city.

Up to the present time these various formations have afforded a great deal of fine material and fossil remains seen throughout the various measures to such an extent that nearly every outcrop may be said to be fossiliferous from the bottom to the top.

At the sub-excursions held during the past collecting season, new material was found, and it is the experience of every collector in the Ottawa district that each days' systematic search in any formation will afford new and interesting discoveries. Some of our formations like the Trenton and Utica have been fairly well examined, but more detailed and systematic work is what is now required in all of them.

III. In the field of Post-Tertiary or Surface Geology there remains much to be done. The evidences and phenomena characterizing the glacial epoch are so numerous, varied and replete with interest owing to the peculiar orographic features of this region on the border line of the great Archæan nucleus and plateau that there can scarcely be said to be a more inviting field of research anywhere in Canada. Mr. Ami has continued his investigation into the history of these various deposits,