

merely objects of curiosity or for medicinal use, but acquire great geological interest, as indications of conditions of the ocean which have long since passed away, but which may have had an important influence on animal life and mineral accumulation in the Palaeozoic period; and also as illustrations of the causes of chemical change now in action in the crust of the earth.

The remarkable discovery by Mr. Billings of locomotive organs probably of the nature of swimming feet, in *Asaphus platycephalus*, read before the Society, but not yet published, deserves to be reckoned as one of the most important facts developed in connection with Canadian Geology in the past year. As an addition to this discovery, I may place the view which I presented to this Society, in a paper on the fossils known as *Rusophycus*, that these are in reality casts of burrows of Trilobites, and entitled to the name *Rusichnites*.

In my address of last year I dwelt at some length on the question of the mode of formation of the boulder clay, and on the alleged action of glaciers in the post pliocene period; and stated my reasons for the belief that floating ice was the agent in the striation of rock surfaces, and the transport of boulders in Canada; and that our lake basins had been eroded by the slow action of cold ocean currents. I have since followed up this subject, and in a paper on the Post pliocene deposits of Riviere du Loup, have endeavoured to show the true marine character of the boulder clay of that locality, so rich in fossil shells of the post-tertiary period. I have also obtained facts which prove conclusively that the boulder clay of Montreal and its vicinity, could not possibly have been sub-aerial, and that throughout Eastern Canada this deposit does not form a continuous sheet, but rather a series of old sea margins extending from an elevation of two or three hundred feet above the sea to the present sea level, and in time from the newer Pliocene period to the present day.

Lastly, under the head of Geology, but passing from the latest formations to the far distant dawn of organic life on our planet, our last number contains the re-publication of papers by Sir W. Logan, Dr. Carpenter, Dr. Hunt, and myself, on *Eozoon Canadense*, shewing that the views which I illustrated here a year ago,

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