

SUMMARY OF RECENT RESEARCHES
ON THE
PALÆONTOLOGY OF THE PROVINCE OF ONTARIO,
WITH BRIEF DESCRIPTIONS OF SOME NEW GENERA.

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I propose this evening to bring before the Institute the results of some inquiries into the Palæontology of Ontario, which I was enabled, chiefly by the liberality of the Government of the Province, to carry out during the last summer. In the course of these inquiries I investigated, more or less carefully, the Clinton, Medina, Niagara, Guelph, Corniferous and Hamilton Formations; but it was to the two latter that my efforts were especially directed, and it is to these that I shall entirely restrict my remarks to-night.

The time and means at my disposal being both limited, I thought it advisable rather to make a careful and prolonged examination of the fauna of a limited district than to make less exhaustive collections from a wider area and from more scattered localities. In accordance with this view, I repeatedly and very carefully examined the various fossiliferous localities in the Corniferous Limestone of Wainfleet, Humberstone and Bertie, in the County of Welland, on the North Shore of Lake Erie. I also visited more hurriedly the same deposits further to the west, as they occur in the Townships of Oneida and Walpole, in the County of Haldimand. And, lastly, I examined the Hamilton Formation in the Townships of Bosanquet and South Williams.

The American geologists, especially Messrs. Hall, Meek and Worthen, have noticed the occurrence in some instances in Western Ontario of Devonian fossils which are known to occur in the United States. The only detailed account, however, which we possess of the Devonian Fossils of Canada West is contained in a series of admirable papers published some years ago in our Journal by Mr. Billings (*Canadian Journal*, New Series, vols. iv., v. and vi.) In these