

THE
CANADIAN NATURALIST

AND

Quarterly Journal of Science.

PALÆOZOIC GEOLOGY OF THE REGION ABOUT
THE WESTERN END OF LAKE ONTARIO.

BY PROF. J. W. SPENCER, B.A.Sc., PH.D., F.G.S.,
Vice-President of King's College, Windsor, Nova Scotia.

PREFACE.—In 1874, I published, in this Journal, a short paper on the "Geology of the Neighbourhood of Hamilton." Subsequently (1877-80), I made an additional study of the region, and found an immense amount of geological information obtainable. This paper on the Palæozoic Geology was ready for print in the autumn of 1879, but its publication was delayed in order to complete the work; but as the completion seems some distance off, I present this paper on the first portion of the subject of the Geology about the Region of the Western End of Lake Ontario. A very large amount of new material in Palæontology has been collected and is now ready for press.

Although the principal facts of the Surface Geology have been collected, yet the study is not yet completed, it being very large, as more than local phenomena are involved.

I.—INTRODUCTION.

Skirting the Western End of Lake Ontario, in our Canadian Province of the same name, there are excellent exposures of the various portions of the Silurian formations (or Upper Silurian of the New York Geologists) overlying, to a depth of several hundred feet, the upper members of the Cambro-Silurian Age (of the Hudson River epoch) about the city of Hamilton,