

ART. III.—NOTES OF EXAMINATION BY PROF. JAMES HALL, OF THE
SILURIAN COLLECTIONS OF THE PROVINCIAL MUSEUM,
—By the Rev. D. HONEYMAN, D. C. L., F. R. S. C.,
F. S. Sc.

(Read January 10, 1887.)

PROF. HALL'S early contributions to the Silurian and Devonian Palæontology of Nova Scotia have formed the basis of all our accurate knowledge of the subject. In these he described, figured and named characteristic Silurian and Devonian fossils, and assigned them to their proper positions in the Silurian and Devonian systems. He has consequently been regarded as paramount authority on questions relating to this department of Palæontology. Our extensive collections, made since the publication of Prof. Hall's work include almost all the fossils described by him, and a large number still undescribed. Many of these have been examined and characterized by Salter and Barrande, (although not figured or described) and referred to their proper palæontological and geological positions; while others, not examined, have been identified and characterized by myself, and referred to their supposed geological horizons. No small controversy has arisen in consequence of the publication of our views in the Transactions of our Institute and elsewhere. As the end of all our investigations is a sincere desire after truth, I have often wished for what I have at length obtained—a personal examination of my entire collections, as they are now arranged and displayed in our Museum, by an authority to which, as Sir Roderick I. Murchison would have expressed it, "we are all disposed to bow."

I directed attention: I. To a Silurian collection from Cape Breton. This consists of the Brachiopods *Lingulellæ* and the Trilobites *Agnostus* and *Olenus*, or *Sphærophthalmus alatus*. Professor Hall agrees with me in referring these to the "Upper Lingula Flags" of Wales, where the same forms occur, according

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