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CANADIAN FOSSIL INSECTS.

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*3. Notes upon myriapods and arachnids found in sigillarian stumps in the Nova Scotia coal field.*

Sir William Dawson more than thirty years ago published in England the first account\* of a gally-worm which was found in the cavities of erect sigillarian stumps in Nova Scotia, and which he called *Xylobius sigillaria*. Nearly twenty years ago he kindly submitted to my examination all the material he had collected, and in a couple of papers published in the United States† descriptions were given of five species and two genera, *Xylobius* and *Archilus*, of myriapods found therein. Since then *Archilus* has been found in other American Carboniferous deposits and *Xylobius* in the coal measures of Europe.

By the aid of a grant from the Royal Society of London, Sir William afterwards made a further search among the sigillarian trees in Nova Scotia and placed in my hands the remains or the articulates then found, upon which I made a brief report some ten years ago in connection with his own,‡ but until now have been unable to complete my study of them.

The fragments, for such they all are, which were sent to me for examination, consist almost exclusively of myriapodal remains, often of single segments only, and generally in a more or less crushed, flattened, and distorted condition. All the species formerly separated in my first study of remains from these stumps occur in the present collection, but very little additional information can be gained from them. Such as it is it will be found below. A few specimens of different species exhibit the marks which were formerly interpreted as the opening of the stink-glands, foramina repugnatoria, common in recent myriapods, but these are now presumed to be the casts of the bases of spines; in no case have the spines themselves been preserved, and whatever spines they possessed must have been wholly insignificant compared with those of the bristling *Archipolypoda*.

\* Quart. Journ. Geol. Soc., Lond., xvi., 268-273, figs. 4-9.

† Mem. Bos. Soc. Nat. Hist., ii., 231-239, 561-562, figs. 1-7; Foss. Ins. N. A., i., 21-3.

‡ Phil. Trans. Roy. Soc., Lond., 1882, ii., 621-659, pl. 39-47.