

as *Pterinea* and *Modiolopsis* represented. *Pterinea insueta*, Conrad, young individuals or a variety of the type species, also *Modiolopsis modiolaris*, Conrad, occur in tolerable abundance, but *Lyrodesma pulchellum*, Emmons, may be said to be the commonest and most characteristic of this class in the Utica terrane.

Of the brachiopoda—*Leptaena sericea*, Sowerby, *Orthis testudinaria*, Dalman, and *Strophomena alternata*, Conrad, are found in the lower Utica shales almost everywhere; but one of the most characteristic forms of this interesting class is the minute, though abundant, *Leptobolus insignis* of Hall.

Billings had observed its presence in the Montmorenci section and referred to it as a small *Discina*. On a small slab—the size of one's hand—there may be counted sometimes as many as twelve individuals—all in a tolerably good state of preservation—and presenting the characters of the genus remarkably well. At Murray Bay, Lake St. John, Montmorency—around Quebec, at Montreal, Ottawa, Gloucester, Whitby, Collingwood, etc., this form occurs in almost every collection made and serves as a very good indicator of the presence of the Utica. Small individuals of *Zygospira modesta*, Say, are also very characteristic and intimately associated with the previously mentioned species. The Utica representatives of this species are rather diminutive, some individuals being scarcely more than one or two millimetres in length, and indicate or present the protegulum very markedly in such nepionic forms as we find especially about Ottawa.

Amongst the most interesting of the brachiopoda however, *Siphonotreta Scotica*, Davidson, marks a very interesting horizon. One single individual of this species, alone, was found by the writer amongst the numerous collections of brachiopoda gathered together by the late Mr. Billings. To Mr. J. W. H. Watts, of the Ottawa Field Naturalists' Club, and to Mr. Whiteaves is due the honour of discovering and making known this beautifully ornamented and setate tretenterate brachiopod. In a paper prepared by the writer and read in the winter of 1887, entitled: "*Notes on and the*