

phonotreta Scotica var. *Canadensis* now proposed, may perhaps not be entirely deemed inappropriate. The spines in the Canadian specimens examined so far are exceedingly minute and numerous, narrowly cylindrical, pointed and smooth for the most part, and somewhat broad and thickened at the base. Even under a high power of a microscope the spines appear to be smooth, no annulations being visible, whilst irregularly distributed punctures at times appear to be present—these are perhaps due to the mode of fossilization. The number of spines round the outer margin of specimen No. 2. (*supra*) has been roughly estimated at over three hundred, forming only one of the many rows of “adpressed spines” ranging from the beak to beak round the anterior front of the shell.

It may not be deemed out of place in this connection to give a list of the species of fossils associated with *S. Scotica*, Dav., and collected at Craighead, in Ayrshire, Scotland, chiefly by Mrs. R. Gray, a lady whose researches in and contributions to palæontology are well known. They are all referred to the Llandeilo formation, a series of measures underlying the Caradoc-Bala group, all members of the Cambro-Silurian or Ordovician System. The list of Brachiopoda has been compiled from S. Davidson’s “Supplement” (*loc. cit.*) and the Crustacea are taken from the admirable “Monograph of the Silurian fossils of the Girvan district,” by Dr. H. A. Nicholson and Mr. Robt. Etheridge, jr., F.G.S.

The following is the list of species from Craighead in the Llandeilo formation from which *Siphonotreta Scotica* was obtained, those common to Canada all italicised.

BRACHIOPODA.

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| 1. <i>Lingula quadrata</i> , Eichwald. | 12. <i>Orthis testudinaria</i> , Dalman. |
| 2. “ <i>Ramsayi</i> , Salter. | 13. “ <i>confinis</i> , Salter. |
| 3. <i>Discinia perrugata</i> , McCoy. | 14. “ <i>biforata</i> , Schlotheim. |
| 4. <i>Acrotreta Nicholsoni</i> , Dav. | 15. “ <i>turgida</i> , McCoy. |
| 5. <i>Leptæna sericea</i> , Sow. | 16. <i>Strophomena rhomboidalis</i> , Wilckens. |
| 6. “ <i>tenuicincta</i> , McCoy. | 17. “ <i>Imbrex</i> , Pander, var. |
| 7. “ <i>Youngiana</i> , Dav. | 18. “ <i>expansa</i> , Sowerby. |
| 8. “ <i>Grayæ</i> , Dav. | 19. “ <i>retroflexa</i> , Salter. |
| 9. <i>Leptæna Etheridgei</i> , Dav. | 20. <i>Rhynchonella Balcletchiensis</i> , Dav. |
| 10. (?) <i>Orthis unguis</i> , Sow. | 21. “ <i>Peachii</i> , Dav. |
| 11. <i>Orthis Sowerbyana</i> , Dav. | 22. “ <i>Scotica</i> , Dav. |