

The only specimens which I have seen are very considerably altered, and poorly preserved, and it appears to me that it is the slight distortion of the specimens which make them appear "quite distinct in form and habit."

The specimen figured in pl. IV, fig. 5 of the present paper is the type of the 'species' *lentus* and is the original o. Dawson's fig. 60. pl. V in his 1871 monograph. It is now No. 3340 in the McGill University collection, and illustrates the doubtful nature of the species. It appears possible that the specimens belong to *A. radiata* and reference should be made to Jongmans (1911, p. 252) for the synonymy and description of that species.

*Genus ANNULARIA, Sternberg.*

1821. *Annularia*, Sternberg. Versuch. Fl. Vorwelt., fasc. 2, p. 32.

This genus of Calamitean foliage was defined in 1828 by Brongniart (Prodrome p. 155) as follows:—"Tige grêle, articulée, à rameaux opposés naissant au-dessus des feuilles. Feuilles verticillées planes, le plus souvent obtuses, traversées par une seule nervure, soudées entre elles à leur base, de longueur inégale."

For a recent account of the genus see Jongmans, 1911, p. 235 et seq.

*ANNULARIA SPHENOPHYLLOIDES, Zenker sp.*

Plate V, figure 7.

1833. *Galium sphenophylloides*, Zenker, Neues Jahrb. Stuggart, p. 398, pl. V, figs. 6-9.

1837. *Annularia sphenophylloides*, Zenker, Gutbier, Isis, 1837, p. 436.

1911. *Annularia sphenophylloides*, Zenker, Jongmans Anleit. Beschreib. Karbon-pflanz. West Europas, pp. 260-263, figs. 211, 212 (for complete synonymy).

The specimen illustrated by fig. 7, pl. V of the present paper is in the British Museum Geological Department, V. 4174, and was obtained in Mr. Wilson's collection in 1900. The specimen was too dull to photograph as it was, so that I had slightly to varnish it before the photograph was taken. The species has not been described from the St. John beds previously, and in general appearance it closely resembles the European form. It also coincides with it in the size of the leaflets (5-8 mm. in length and 2 in width), in the number of free leaflets in a whorl (about a