

In 1874 (p. 496) Schimper commented on Dawson's plant: "La fig. 196 de la même planche (XVII) citée par Dawson comme appartenant à cette espèce, a les pinnules dentées et me parait se rapporter au *P. serrulata*." But as will be recognised on comparison with the photographs, Dawson's drawing did not really bring out the true features of the plant, and the dentations of the margin in fig. 196 are very much exaggerated.

In his account of the Pottsville, David White (1900) quotes both *P. Milloni* and *S. pilosa* Dawson as occurring in several of the beds. He gives no description of either, however, and does not appear to have noticed their similarity. Speaking of *Sphenopteris pilosa* Dawson (p. 883), White says:—"The specimens, including the types, from the upper portion of the Pottsville in Washington County, Arkansas, described by Lesquereux (Coal Flora, vol. III, p. 762, pl. CII, figs. 1, 1a) as *Sphenopteris communis*, appear to present the identical specific characters seen in examples of *Sphenopteris pilosa* from the so-called middle Devonian beds at St. John, New Brunswick." As I have not seen any of the actual specimens of Lesquereux's species, I cannot express any opinion on this conclusion beyond the remark that it seems to be, naturally, largely dependent on Dawson's descriptions and figures of his specimens—the value of which the photographs accompanying the present paper enable one to form an impartial judgment.

PECOPTERIS PLUMOSA, *Artis* sp.

Plate XII, figures 27, 28, 29, and text fig. 7.

- 1825. *Filicites plumosus*, Artis, Antediluvian Phytology, p. 17, pl. XVII (Ed. 2, 1838).
- 1836. *Pecopteris plumosa*, Brongniart, Hist. vég. foss., p. 348, pl. CXXI CXXII.
- 1862. *Neuropteris serrulata*, Dawson, Quart. Journ. Geol. Soc., vol. 18, p. 320, pl. XV, fig. 35a, b.
- 1868. *Pecopteris (Alethopteris) serrulata*, Hartt in Dawson, Acadian Geol., p. 553, fig. 192K.
- 1871. *Pecopteris (Aspidites?) serrulata*, Hartt in Dawson, Foss. Pl. Devon. Upp. Silur. Canada, Geol. Surv. Rep., p. 55, pl. XVIII, figs. 207-209.
- 1871. *Neuropteris serrulata*, Dawson, Foss. Pl. Devon. Upp. Silur. Canada, Geol. Surv. Rep., p. 49, pl. XVIII, fig. 213.
- 1882. *Pecopteris (Aspidites?) serrulata*, Hartt, Dawson, Foss. Pl. Erian Upp. Silur. Canada, Geol. Surv. Rep., pt. 2, p. 117.