

As will be noticed, both in Sir W. Dawson's sketch, which is reproduced in the present text fig. 11, and in the photo-



Fig. 11. *Neuropteris eriana*, reproduced from sketch by Sir William Dawson (1882, p. 114, fig. 4).

graph pl. XV, fig. 39, the form of the base of the pinnule is not that of a true *Cardiopteris*, while the form of the pinnules and their veins both coincide with those of the lateral pinnules of a *Neuropteris*. Personally, I consider that there is little doubt that the plant is really *Neuropteris heterophylla*, (*N. polymorpha* of Dawson). This likeness is noted by Dr. Matthew (1911, p. 13). Nevertheless, as the terminal pinnule is the most distinctive, and as Dawson's *eriana* lacks it, there is the possibility that they might have formed different species, so that I am retaining Dawson's original specific name provisionally.

NEUROPTERIS GIGANTEA, Sternberg.

Plate XVI, figure 41.

- 1823. *Osmunda gigantea*, Sternberg, Versuch, fasc. 2, p. 36, pl. XXII, fig. 2.
- 1826. *Neuropteris gigantea*, Sternberg, Versuch, fasc. 4, p. xvi.
- 1868. *Neuropteris crassa*, Dawson, Acadian Geol., p. 551.
- 1871. *Neuropteris crassa*, Dawson, Foss. Pl. Devon. Upp. Silur. Canada, Geol. Surv. Rep., p. 50, pl. XVII, fig. 200.
- 1871. *Neuropteris retorquata*, Dawson, Foss. Pl. Devon. Upp. Silur. Canada, Geol. Surv. Rep., p. 50, pl. XVII, fig. 197.
- 1886. *Neuropteris gigantea*, Sternberg, Zeiller, Fl. Foss. Valenciennes Atlas, pl. XLII, fig. 1.
- 1888. *Neuropteris gigantea*, Sternberg, Zeiller, Text of same, p. 258.
- 1910. *Neuropteris crassa* and *Neuropteris retorquata*, Dawson, Matthew, Bull. Nat. Hist. Soc. New Brunswick, vol. 6, p. 248.
- 1910. *Neuropteris gigantea*, Sternberg, Renier, Docum. l'Étude Paléont. terr. houill., pl. C.

Of *Neuropteris crassa* all that Sir William Dawson had was one single pinnule. On this he founded the species and described it in the "Acadian Geology" as follows:—"Single pinnules, broad, oval, oblique at base, thick, smooth above with