stem- and arm-joints from the Italian Tertiaries, while he revived d'Orbigny's name Conocrinus for d'Archiac's Bourgueticrinus thorenti, after an interval of nearly twentyfive years. During this period, so far as I am aware, no palæontologist had taken any notice of d'Orbigny's attempt to differentiate Conocrinus from Bourgueticrinus. first description 1 which he gave of the former genus (1847?) ran as follows: "C'est un Bourquetierinus ayant la tige comprimée, mais avec une seule série de pièces brachiales, sans pièces basales;" and he referred to it one unnamed species from the Suessonien (Lower Eccene). Three years later (1850) he spoke of Concerinus as "genre voisin des Bourgueticrinus, mais sans pièces basales, comme les Eugeniacrinus;" and he mentioned Bourgueticrinus thorenti of d'Archiac as belonging to this generic type.2 Meneghini has shown, however, that two species were described under this name by d'Archiac. One is a much elongated type, first described in 1846, and probably that referred to by d'Orbigny in the following year; while the other that was not noticed till 1850, the year in which the second (first?) description of Conocrinus appeared, is the Eugeniacrinus pyriformis of Münster. This species was not referred by d'Orbigny to his new genus Conocrinus, though undoubtedly belonging to it, as pointed out by Meneghini. But it was retained by him in Eugeniacrinus, so that the only species of Conocrinus recognised by d'Orbigny was the elongated Bourgueticrinus thorenti of d'Archiac. The figures and descriptions of this type given by the latter author are somewhat incomplete. He had very few specimens, and was exceedingly doubtful about the position of the sutural lines, while they are certainly placed wrongly in his figure," according to which the second radials rest upon the sutures of the first. There is likewise no indication of an enlargement of the uppermost stem-joints so as to form a "summit," which is so characteristic of Bourgueticrinus; while the presence of basals below the radials or "pièces supérieures" of Bourgueticrinus thorenti was distinctly described by d'Archiac, though he probably figured them incorrectly. Nevertheless, Conocrinus is a Bourqueticrinus without basals, and d'Archiac's species in which basals are present is made the type of the genus!

Neither does it help in the differentiation of the two genera to speak of Conocrinus as a Bourgueticrinus with a compressed stem, when the stem of Bourgueticrinus itself is described as being compressed. I find very considerable difficulty in comprehending what d'Orbigny really meant by Conocrinus. If it be "voisin de Bourgueticrinus," but also resembles Eugeniacrinus in the absence of basals, why was it omitted in his scheme of classification of the Apiocrinidæ, published in 1858, from the fourth section comprising Eugeniacrinus alone, and distinguished by having only "une série de pièces au sommet"? On p. 95 he pointed out that no Tertiary species of Bourgueticrinus were then known, from which one may infer that the Tertiary fossils previously referred to this genus

¹ Cours elément. de Paléontol. et de Géol. stratigr., t. ii., 1852, p. 147.

² Prodrome de Paléontologie stratigraphique universelle des Animaux Mollusques et Rayonnées, t. ii. p. 322.

Mém. Soc. géol. de France, ser. 2, t. ii. p. 200, pl. v. fig. 20.

Cours élément, de Paléontol, et de Géol, etretier, t. ii. 1852, r.

⁴ Cours élément, de Paléontol. et de Géol. stratigr., t. ii., 1852, p. 147.
⁵ Hist. Nat. des Crinoïdes, p. 2.