led me to adopt Schlüter's view, as de Loriol had previously done. For I not unfrequently met with calyces in which basals might appear externally at some of the angles, but not at others; while in other fossil types no basals were visible at all. however, the basals were present as more or less prismatic rods extending outwards from the centre of the under surface of the radial pentagon somewhat as in the Pentacrinus decorus represented in Pl. XXXIV. fig. 8. But they were not always long enough to reach the edge of the radial pentagon and appear externally between it and the centrodorsal; so that one side of a calyx would be that of an Antedon and the other that of a Solanocrinus. Under these circumstances it would seem that Schlüter was undoubtedly right in uniting Solanocrinus with Antedon. But in a Manual of Palæontology recently published by Hoernes,2 Zittel's classification is still adopted, and Solanocrinus is placed as a subgenus of Antedon, differing from it in the presence of basals on the exterior of the calyx; while it is also described as represented by a living species and not by fossil ones only. This apparently refers to the doubtful genus Comaster, Agassiz, which is only known from the description given of it by Goldfuss.3 Whatever be the nature of Comaster, however, the supposed difference between Solanocrinus and Antedon cannot any longer be regarded as of generic value.

NOTE C. (Page 68.)

On the Excentric Position of the Mouth in Actinometra.

The genus Actinometra comprises quite two-fifths, if not more, of all the species of living Crinoids. The character by which it is most readily distinguished at first sight is the excentric position of the mouth, as was pointed out in 1877 4 and again in 1879; 5 while its generic position is recognised by Claus in the last edition of his Grundzüge der Zoologie with the character "Mund excentrisch" (Pl. LV. figs. 1, 2; Pl. LVI. figs. 7, 8; Pl. LXI. fig. 2; see also fig. 3 on p. 92).

In spite of these facts, however, Hoernes stated in his Palæontology (p. 131) that in recent Crinoids the mouth is always (stets) in the centre of the disk, which is very far from being the case, as explained above. This error was avoided by Zittel, whom Hoernes usually follows very closely; though the generic position of Actinometra was not fully recognised by the former author, who placed it along with Solanocrinus and Promachocrinus as a subgenus of Antedon. But all subsequent writers, Hoernes excepted, have recognised that Antedon and Actinometra are totally distinct generic types.

¹ Swiss Crinoids, p. 254.
² Elemente der Palæontologie, p. 149.

³ Petrefacta Germaniæ, vol. i. p. 202; see also Journ. Linn. Soc. Lond. (Zool.), vol. xiii. p. 454, 1877.

⁴ Journ. Linn. Soc. Lond. (Zool.), vol. xiii. p. 441, 1877.

⁵ The Genus Actinometra, Trans. Linn. Soc. Lond. (Zool.), ser. 2, vol. ii. p. 18.