

siphuncle," and adds, "This plate shows at intervals slight projections giving rise to delicate cones apparently membranous." Hyatt [1884, p.266], though basing his definition of *Piloceras* on Dawson's description, did not recognize the presence of a partition, but believing in its tubular character, referred it to the endosiphuncle. Foord, however, observed again the same plate in a *Piloceras* from Durness and figured it [1888, p.159, fig.17, III, p.160], stating in regard to it in opposition to Hyatt's view: "Nevertheless there seems to have been an internal septum extending upwards, from the lower part of the siphuncle, between the wall of the latter and that of the sheath into which the endosiphon opens. This septum shows itself in some transverse sections of the siphuncle in the manner indicated at figure 17, II



Fig. 3 *Piloceras* sp.
Transverse section of siphuncle.
e, endosiphuncle; p, partition.
(Copy from Foord)

[copied here in text fig.3], and it can be traced for some distance upwards in the vertical section of this and of other specimens. The septum seems to have been penetrated by the endosiphon, as shown in the figure, but I am unable to give any satisfactory account of it, owing to its imperfect condition." Bather later [1894,

p.433] copied Foord's figure, stating that the appearance of the partition is exaggerated and its significance unknown. Specimens of *Piloceras explanator* from the Fort Cassin bed, which are in the State Museum, show the same partition and we shall have occasion to recur to its structure [see p.329].

Meanwhile Holm had found a similar endosiphuncular blade strongly developed in a species from Esthonia, which he described in allusion to this feature as *Endoceras gladius* [1887, p.13]. In this important publication, to which we shall have frequent occasion to refer, Dewitz's observation of the winglike membranes of the endosiphuncle, is verified.

In a later publication [1895, p.605ff] the same author has introduced a number of terms for the parts of the siphuncle in view of the fact that Bather had criticized Hyatt's term "endosiphon" [l. c., p.433] arguing that the "endosiphon" is in func-