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## COMAROCYSTITES AND CARYOCRINITES

CYSTIDS WITH PINNULIFEROUS FREE ARMS.

By A. F. FOERSTE, DAYTON, OHIO.

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### I. PRELIMINARY REMARKS ON THE ARM STRUCTURE OF CRINOIDS AND CYSTIDS.

1. *The origin of biserial arms.*—According to Dr. F. A. Bather (Caradocian Cystidea from Girvan, 1913, p. 385), "the brachioles of Blastoids and Cystids differ from the Crinoid brachium, not merely in more fundamental features, but also in the fact that they are invariably biserial and present no trace of an anterior uniserial stage." The crinoid arm, on the contrary, is regarded by Bather (Echinoderma, 1900, p. 116), to have