ON PLATYSAMIA COLUMBIA SMITH.

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Taking into consideration the great difference in the lives and habits of the orders in question, I do not think the interbreeding of species of the genus Tetreao is any strong proof of the correctness of Dr. Hagen's conjecture. Robert Mudie, in his "Feathered Tribes of the British Islands," speaking of Tetreav tetrix, says: "During the latter part of autumn and winter the males live together in flocks and in a state of the most perfect harmony; but when the warmth of spring begins to be felt, and their plumage, which had become rather dull during the winter, begins to shine in all the beauty of its glosses, they separate from each other and fight stoutly for their females. They are then on the alert by early dawn, crowing and showing off the beauties of their plumage in a great variety of attitudes and gestures."

This, I think, is a great contrast to the life of the moth. The Grouse is gifted with the power of uttering cries or calls by which his presence is made known, not only to his own species, but to every bird that is within Of this the moth is entirely destitute; further, when the call of the male Grouse has attracted the female, he makes his desires known to her by various gestures and attitudes, and any person who has given a little attention to domestic fowls or to pigeons, must be aware that birds can convey a great deal of meaning by gesture. This power, too, is Now, supposing that the males of one species of wanting in the moth. Tetreao were absent, and the males of another were calling, the females of the first species would hear them and their natural instinct would, I think, teach them to go to a cry that must at least bear a family resemblance to that of their proper mates; once in sight of the male his animated gestures would convey his desires, and though they might not actually keep in his pack, yet from their social habits they would keep near them, and seeing the gestures of the male, would sometimes submit to him in the absence of their legitimate partners.

But with the moth it is very different; in this case the attracting power emanates from the female, and is silent and invisible. The moth utters no cry by which her presence would be made known to the males