

*Mamestra* provisionally," and again, "we think that it will probably become the type of a new genus" (Ann. N. Y. Lyc. 97).

To conclude, the genera as arranged in my "New Check List," must be modified so far as the *Heliothinae* are concerned, from Mr. Smith's observations, but I would refer the student to my paper in Am. Ent. Soc. for what seems to me the most natural arrangement of the genera. The genera of the *Stiriinae*, here fully discussed, may be placed between the *Calpine* and *Plusiinae*, but their arrangement is somewhat optional so far as our present knowledge extends. They have the body shortly scaled, the thorax short, collar and tegulae deflected or not closely applied, the abdomen weak, untufted, the shape clumsy. The object of the present paper is attained in showing that the *Stiriinae* have certain structural features taken from the already indicated sub-family groups with which they have hitherto been associated, but united in a different way, and are thus equally entitled to recognition as a sub-family of Noctuidae.

#### NEW TABANIDÆ.

BY JOHN MARTEN, CARBONDALE, ILL.

TABANUS ALLANII. Length 15 mm.

Female.—Eyes naked, no ocelligerous tubercle. Front yellowish-gray; callosity chestnut, nearly square, with an unconnected, spindle-shaped line above. Face and cheeks yellowish-gray. Antennæ reddish-yellow, annulate portion black. Palpi yellowish with white hairs. Thorax and scutellum grayish-black with minute golden-yellow pubescence; humerus reddish-brown when denuded; pleurae and pectus grayish with white or yellow hairs. Abdomen yellow, segments 4-7 black with yellow hind margins, which are expanded into triangles on the middle of segments 4 and 5; first segment black under the scutellum; second segment with a black triangle on the middle, and the third segment with a dark spot on each side of the middle. Venter yellow with a black line through the middle and tip dark. Legs—femora black, yellow at the tips; tibiae yellow, darker at the tips; outer half of front tibia black; tarsi brownish, front ones black. Wings hyaline; stigma yellowish.

Male.—Differs principally in having the colors brighter; the abdomen