## ON HOMOPTERA AND ALLIED FORMS.

BY A. R. GROTE,

Director of the Museum, Buffalo Society Natural Sciences.

The species of *Homoptera* stand in need of a revision. They are usually but partially and confusedly named in such collections as I have had access to. With regard to the generic title, its acceptance is only Two species, Phaeocyma lunifera Hübn. and Phaeocyma provisional. The descriptions hitherto pubfluctuaris Hübn., are unknown to me. lished in this genus are difficult to use for identification; no comparative characters are given, no analysis of the lines entered upon. acters separating Zalc and Ypsia are in great part unexplained, and of the latter dependant on larval characters. Obliqua, duplicata and benesignata are allied, the two first perhaps synonymous; nigricans is unknown to me; probably no one has yet correctly identified calycanthata of Abbot & Smith. Walker's and Bethune's "calycanthata" is Zale horrida Hübn. Gueneé's calycanthata I think I have identified. Minerea I think I know. Walker's herminioides is Epizeuxis aemula! Leaving Walker's names out of the question, we have lunata, edusa and Saundersii generally fixed in collections; besides this, I have calycanthata Guen. and albofasciata Beth. Atritincta and edusina are small dark forms from Texas. The present paper calls attention to the want of information and is written in the hope that material will come in so that the species may be worked over. It is necessary in studying the species to observe the course of the thread-like transverse posterior (t. p.) line. In lunata it is waved; in its course superiorly, opposite the cell, it will be seen to be dentate in addition to the usual central indentation. It is also dentate in Saundersii Rosæ Behr., from California, from a single specimen, does Drury's fig. (pl. 20) is hardly well not seem to me distinct from lunata. enough drawn to decide, but the t. p. line appears to be given as some-. what jagged, so I do not venture to alter our usual determination of his species, which is our dark brown and stouter form. Another species, which I propose to consider as minerea, is similar to lunata, but differs by this line, frequently obliterate, being nearly even except the discal notch; it is a little waved inferiorly, but is not dentate superiorly. Minerea is of