

Trichoptera and be done with it. The objection that Comstock's Frenatae includes many Lepidoptera without a frenulum is somewhat paralleled by the fact that some of Dr. Packard's Lepidoptera glossata (Fabricius's term for the order) have no tongue. The difficulty of "combining" these two systems lies in the fact that different organs are employed. Dr. Packard's paper closes with a genealogical tree at which my old friend, Mr. W. H. Edwards, if he is still standing on his rock and is not washed away by Dyarian waves, will no doubt lift his hands in astonishment. Dr. Packard has virtually abandoned the old Latreillean camp and joined the ranks of the new school.

In a far wider sense than as a correlator of contending systems, Mr. Tutt merits respect for his untiring industry and his success in raising the standard of scientific Lepidopterology in England; I might almost say in Europe, for the study itself has been in some danger of following the objects of the study, into the useful hands of the dealers in insects. With ever fresh enthusiasm and all the power of expressing himself clearly, Mr. Tutt combines both point and poetry, so that to read one of his discussions on synonymy is a pleasant task. The student, whether objectively of science, or subjectively of nature, cannot fail to be benefitted by Mr. Tutt's writings.

A. RADCLIFFE GROTE, A. M.

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THE BUTTERFLIES OF NORTH AMERICA, with Coloured Drawings and Descriptions, by W. H. Edwards. Third Series, Part XVI. Houghton, Mifflin & Co., The Riverside Press, Cambridge, Mass.

Though nearly a twelve-month has gone by since the preceding Part was noticed in our pages, we could well afford to wait with patience for another issue, when our author rewards us with so much that is remarkably interesting, as well as valuable, regarding the life-histories of some hitherto little known Butterflies.

The first plate, which as usual is exquisitely drawn and coloured, depicts the female of *Parnassius Smintheus*, Doubl.-Hew., and both sexes of the variety *Hermodur*, Hy.-Edw., together with the egg, larva in all its stages, chrysalis, last segments of the male butterfly, and many highly magnified details. After giving a description of the various stages of the insect, the author relates many most interesting facts regarding the life and habits of the butterfly, which have taken expert observers in the