insects. Just in the presence of the judicious and sober observations of Dr. Adler, it would not be proper to say more than that it is not difficult to point out galls of *Cecidomyia* similar to both forms of the alternating *Cynips* galls. It is to be presumed that in *Cecidomyia*, as well as in *Cynips*, the form of the ovipositor will be different, but such investigations can scarcely be successful with dry specimens.

I may add one observation made by myself, by which it is at least probable that bisexual species of *Cecidomyia* may also propagate by parthenogenesis. Some twenty years ago, occupied with the study of insects obnoxious to agriculture in Prussia, I had stalks with cocoons of *Cecidomyia destructor* in corked glass tubes. In one of them I raised a single female, and was sure that no other cocoon was present. The female laid a number of eggs on the glass, which after a few days began to develop so far that the embryo and the segmentations of it were clearly visible. By some mischance the glass tube was left in sunlight and the development stopped. Though I have not been able since to repeat the observation, I am sure that I was not mistaken. I think it is justifiable to presume a possible parthenogenesis for *Cecidomyia*, which, if proved, may lead to successful results concerning the destruction of this dangerous pest.

After having studied Dr. Adler's papers, I remembered directly some similar facts given by Mr. Lichtenstein in Stettin. Entom. Zeit, 1877, on the Hemipterous genus Phylloxera; the alternation is here very remark-The bisexual form originates from pupæ, which are produced by able. larger winged forms, which possess no external sexual organs and can Mr. Lichtenstein calls this form of propagation therefore not copulate. anthogenesis. A certain similarity with Cynips consists in the fact that the different forms of Phylloxera emigrate in spring and return in the So the well known Ph. vastatrix emigrates from the leaves to the root of the same plant, and needs therefore no special winged forms for the purpose of emigration. But Ph. quercus changes to another tree, and needs therefore two winged forms, which are different one from the other. One parthenogenetic form brings the summer colonies from Ilex to Robur, and another anthogenetic fall form brings them back from Robur to Ilex. The fact that some species possess two different winged forms will probably reduce the number of the described winged species. Till now it is only known that Ph. Lichtensteini is the anthogenetic form of Ph. quercus, and Ph. Signoreti probably the same form of Ph. florentina. tenstein presumes that many Pemphigus and Adelges will possess similar