on the other. The question then presents itself: Do Ph. apivorus and A. frigidus represent an advance on Cerceris or are the conditions in this genus derived from those of Ph. apivorus? other words, is the Bembecine a primitive or a secondary method of caring for the young among the solitary wasps? Undoubtedly most observers would be inclined to regard Bembex as representing a later phylogenetic stage and one leading to the conditions in the social wasps, but the Peckhams take a different "It may be possible, then," they say, "that all wasps originally fed their larvæ from day to day as Bembex now does, and that while the instinct of paralyzing the prey and of storing the whole supply of food once for all was working itself out among the solitary wasps, the instincts connected with life in a true society, and of joining together in the work of feeding the larvæ, have, on the other hand, developed into those of our wasp communities."

It is difficult to decide between the evolutionary alternatives here indicated, but analogy with the phylogenetic history of the bees, in which two precisely similar methods of rearing the young cccur, certainly points to the Bembecine method as secondary. This view is also sustained by the sporadic and independent occurrence in several highly specialized groups of wasps of this method as the one best adapted to certain peculiar conditions. Such cases are Aphilanthops frigidus and Philantus apivorus. Two others are cited by the Peckhams, one in the genus Sphex (Ammophila), where they found "an instance which looks like a connecting link between the habits of Bembex and those of the solitary species. A. urnaria stores one caterpillar, lays an egg on it, catches another and stores it as soon as she can and then closes the nest. As a usual thing, no doubt, the nest is finally closed before the egg is hatched, so that she never sees her larva. In one of our instances, however, the capture of the second caterpillar was so much delayed that when it was brought in the mother wasp found a larva of a day old feasting on the one already provided." The other case is that of Lyroda subita Say, which these authors found to resemble Bembex in feeding its larva from day to day on small crickets. Most instructive in this connection, however, is the Aphilanthops, because its method of collecting a supply of queen ants before feeding them one by one to the growing larva, indi-