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**NEW HOST RECORDS OF PARASITIC HYMENOPTERA IN CLEARWING MOTHS (LEPIDOPTERA: SESIIDAE)<sup>1</sup>**Foster Forbes Purrington and David G. Nielsen<sup>2</sup>

## ABSTRACT

*Synanthedon pictipes* is host for *Dibrachus cavus*; *Podosesia aureocincta* hosts *Phaeogenes ater*, *Macrocentrus marginator*, and *Lissonota* sp.; *Podosesia syringae* hosts *Lissonota* sp.

We report five new primary relationships between clearwing moth hosts (Lepidoptera: Sesiidae) and parasitic wasps in the Pteromalidae, Braconidae, and Ichneumonidae. These associations were recorded in the course of several years' fieldwork in Ohio and elsewhere during which we investigated clearwing moth biology.

To our knowledge, no account or listing of sesiid parasites has been published, although in some reports parasitism has been noted anecdotally, as in Engelhardt (1946). Some known host-parasite associations are recorded in Krombein et al. (1979), and an effort to make more such data available using a computerized U.S. Department of Agriculture database is underway (Melvin E. McKnight, pers. comm.).

*Dibrachus cavus* (Walker), Pteromalidae. Host record: *Synanthedon pictipes* (Grote and Robinson), lesser peachtree borer. Adults emerged 10 July 1972 (7 females, 21 males), Wooster, Ohio, from a single host pupa. *D. cavus* is the most polyphagous and cosmopolitan of the chalcidoids, developing on insects in many orders and on spiders as a primary, secondary, or tertiary parasite (Krombein et al. 1979). No Sesiidae have previously been reported as hosts for this parasite despite its broad host range. (Det. by B. D. Burks.)

*Phaeogenes ater* Cresson, Ichneumonidae. Host record: *Podosesia aureocincta* Purrington and Nielsen, banded ash clearwing. Two adults (one of each sex) emerged 10 September 1976, Navarre, Ohio, from separate host pupae (solitary parasites). *P. ater* is reported only from sesiid hosts. (Det. by R. W. Carlson.)

*Macrocentrus marginator* (Nees), Braconidae. Host record: *Podosesia aureocincta*. Adult female emerged 10 September 1976, Navarre, Ohio; solitary endoparasitic larva constructs brown papery cocoon. Other sesiids are reported as hosts, as well as other Lepidoptera. (Det. by P. M. Marsh.)

*Lissonota* sp., Ichneumonidae. Host record: *Podosesia aureocincta*. Adult female emerged 25 September 1972, Wooster, Ohio. Host record: *Podosesia syringae* (Harris). Adult female emerged 14 June 1972, Perry, Ohio. Solitary endoparasite of larval host constructs brown papery cocoon. Two *Lissonota* spp. are recorded as parasites of clearwing moth larvae (Krombein, et al., 1979). (Det. by R. W. Carlson.)

Voucher specimens are held at The Ohio State University, Ohio Agricultural Research and Development Center, Wooster.

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