

**A *Eumenes* Wasp and Six Adventive Ichneumonidae  
New to Hawaii (Hymenoptera)**

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(Presented by Mr. Van Zwaluwenburg at the meeting of December 9, 1946)

An opportunity to study the ichneumonids in the collections of the Hawaiian Sugar Planters' Experiment Station and of the Bishop Museum in Honolulu disclosed a number of species adventive to Hawaii whose presence there had not yet been reported. The described species among them are reported here. In addition a species of *Eumenes* was collected for the first time.

On September 7, 8 and 9, 1946, about six specimens of a large black and orange *Eumenes* were seen near Pearl Harbor, Oahu, around flowers at the Makalapa officers' quarters, and drinking water from a soaked fiber mat at a nearby swimming pool. Two males and a female were caught. Another female was seen to fly to its mud nest on a post of a third floor balcony. The nest was of four oval cells in a row closely plastered together. One cell was still open but quite full of caterpillars. Besides a wasp larva in each cell, the nest contained about 25 larvae of *Anacamptodes fragilaria* (Grossbeck), a recently introduced geometrid.

Subsequently a specimen sent to Dr. J. C. Bequaert was determined by him as *Eumenes pyriformis petiolaris* Schulz, described (Berlin Ent. Zeit., 49: 217, 1904) from Finschhafen, New Guinea, as *E. latreillei* var. *petiolaris*. It is a common wasp in New Guinea, and Dr. Bequaert has seen it also from the Solomons and Fiji. We may assume that it arrived during the war from the New Guinea area, probably as nests on stores, mechanized equipment or ships coming to Pearl Harbor.

*Rhembobius abdominalis pacificus* (Harrington) 1894. This subspecies is native to the western United States and Canada, where it has been reared from two syrphids which attack bulbs (*Citibaena strigata* and *Merodon equestris*).

Hawaiian record: ♂, ♀, at filter mud, Hilo Sugar Co., Hilo, Hawaii, July 1932, F. X. Williams (H.S.P.A.).

*Gambrus ultimus* (Cresson) 1864. This is a species native to the United States east of the Rocky Mountains. It is common among sparser, more open vegetation and is one of the species frequently reared by economic entomologists. Published hosts

include Oletreutidae (*Ancyliis comptana*, *Grapholitha molesta*, and *Polychrosis viteana*) and Pyraustidae (*Phlyctaema tertialis*).

Hawaiian records: 2 ♂, Kokee, Kauai, July 11, '37, E. C. Zimmerman (Bishop Mus.); ♀, Kokee, Kauai, Jan. 8, '44, N. L. H. Krauss (H.S.P.A.); ♂, on grass, Mauna Loa trail, Kilauea, Hawaii, July 4, '34, O. H. Swezey (H.S.P.A.).

*Melanichneumon rubicundus* (Cresson) 1864. This species is native to the northeastern United States and adjacent Canada, where it occurs among grass. In North America it is most common in the fall.

Hawaiian records: ♂, Hookomo, Hawaii, August 4, '35, R. L. Usinger (Bishop Mus.); ♀ Humuula, Hawaii, July 30, '35, E. H. Bryan, Jr. (Bishop Mus.).

*Syrphoctonus maculifrons* (Cresson) 1865. This species is native to the western half of the United States and southwestern Canada. Like *Diplazon laetatorius*, its ally in Hawaii, it parasitizes a wide variety of aphid-feeding Syrphidae. Published host records include *Cheilosia alaskensis*, *Cheilosia hoodiana*, *Eupeodes volucris*, *Metasyrphus* sp., *Scaeva pyrastris*, and a species of *Syrphus* (all Syrphidae).

Hawaiian record: ♂, Oahu, April 5, '13 (Bishop Mus.).

*Hypsicera femoralis* (Fourcroy) 1785. This species is a cosmopolitan parasite of clothes moths, usually collected in buildings.

Hawaiian records: ♀, on window, Honolulu, Oahu, July 26, '33, R. H. Van Zwaluwenburg (H.S.P.A.); ♀, at window, Hawaiian Sugar Planters Experiment Station, Honolulu, Oahu, August 11, '33, F. X. Williams (H.S.P.A.).

*Anomalon californicum* (Cresson) 1878. This species is native to Arizona and the southern half of California. There are no host records for this species but others of the genus have been bred from larvae of Elateridae.

Hawaiian records: ♀, Niihau, early October, 1945, Stephen Au and Q. C. Chock (Bishop Mus.); 2 ♀, flying over *Portulaca oleracea* on the beach at the end of Channel St., Honolulu, Oahu, April 6, '46, H. Townes (Washington Mus.); ♀, flying along roadside, Koko Head region, Oahu, April 19, '46, H. Townes (H.S.P.A.).