

THE NORTH AMERICAN SPECIES OF EMERSON-
OPSIS, AMESTOCHARIS, EUDERUS AND
MIROMPHALOMYIA

(Hymenoptera, Chalcididae)

By A. A. GIRAULT

The following tables, very probably as accurate as may be, were made up from type material in the U. S. National Museum, but were never subjected to final revision.

Genus *Emersonopsis* Girault

Arizona, Montana. Head as in *Pseudomphale*; sclerite from between antennae reaches apex of V-suture in an acute point. Parapsidal furrows complete, obtuse, obscure. Scutellum 2, submarginal vein 1, bristle or seta.

Dark green, abdomen black, wings clear; tarsi concolorous; venation dark. Pedicel slightly longer than funicle 1; face glabrous, cross-lined below antennae save clypeus, latter with rimmed apex; vertex smooth, occiput finely scaly; thorax coarsely reticulate-punctate save propodeum whose neck is rugulose; abdomen 2; pronotum and propodeum save groove on each side of meson, glabrous. Male, knees, tibiae at apex more or less red, abdomen with long petiole, glabrous; face with a hump just below and between antennae,

(*Entedon*) *cupreicollis* (Ashmead) = *arizonensis* (Ashmead)

Habits unknown. The precedence of the two names had not been determined up to the time I left, but can be easily done from the literature.

Genus *Amestocharis* Girault

Australia, North America. The following are species referable here for the present; but they bear three (3) ring-joints; the male funicle is 3-jointed, club 2-jointed. Head as in *Pleurotropis*.

Wings clear; legs concolorous, also scape. Jaws 2-dentate. All the species bear two bristles on scutellum and on submarginal vein.

Abdomen 2 half the surface, glabrous above, densely scaly beneath, rest scaly, abdomen not long; parapsidal impression glabrous caudad. Scu-

tellum with more or less distinct median sulcus at base. Median carinae of propodeum not very close, diverging distad. Post-marginal and stigmal short, subequal. Pedicel a little shorter than funicle 1. Tibial tips obscurely white. Petiole scabrous, subquadrate,

lithocolletidis (Ashmead) = *Entedon albitarsis* Ashmead

Abdomen 2 a quarter the surface, the abdomen long, scaly save proximal half of 2 and apex narrowly of others. Parapsidal impression punctate like rest of scutum; scutellum the same; median carinae of propodeum very close. Postmarginal exceeding stigmal. Pedicel much shorter than funicle 1. Tibial tips white.....*perdubius* Girault

Abdomen 2 the same but glabrous, abdomen still more slender, 3 scaly, others more widely glabrous at apex; tibiae entirely concolorous. Otherwise the same.....*longus* Girault

Genus **Euderus** Haliday

Cosmopolitan. Club with a distinct terminal nipple. Parapsidal furrows deep, complete. Abdomen conic-ovate. Head as in *Secodella*. Fore wing with the line of long soft setae near and parallel to marginal vein as in *Secodella*.

Ovipositor not extended, the abdomen not stylate.

Dark green, wings hyaline; scape slightly at base beneath, knees broadly, tips of tibiae and the tarsi (except last joint), whitish; densely scaly, the propodeum with a median carina. Funicle joints twice longer than wide, but 4 a half shorter, longer than pedicel; stigmal globular, subsessile, shorter than the postmarginal. Mandibles tridentate. Scutum scaly-punctate. Discal cilia of fore wing more distinct distad.....*elongatus* Ashmead

The same but middle legs save coxae, red, so scape beneath, pedicel longer, equal funicle 1; discal cilia all distinct, propodeum longer.....*marilandicus* Girault

Ovipositor extruded for length equal to fourth that of abdomen, latter stylate at apex.

The same but of whole body only the three basal joints of the tarsi are white; median carina of propodeum shorter, broader; funicle joints somewhat longer than wide, longer than pedicel; stigmal ovate, with distinct neck, oblique, a little shorter than postmarginal. Mandibles tridentate, teeth acute.....*livida* Ashmead

The species are, no doubt, associated with Lepidopterous larvae. The sparse and inconspicuous discal ciliation of the fore wing is characteristic. The cephalic tibial spur forms a strigil, is pale and strongly 2-tined (*elongata*). Scutellar bristles are

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INSECUTOR INSCITLÆ MENSTRUUS

six (?) in *elongatus*, six minute in *marilandicus* and none in *livida*. Submarginal with three or more bristles in *marilandicus* and six in *livida*.

Genus **Miromphalomyia** Girault

Arizona. Head sublenticular. Perilampiform. Clypeus subtruncate, broad at apex, the head not as wide there as the eyes (cephalic aspect). Cheeks nearly as long as the eyes.

Submetallic, dark, the head aeneous, the wing hyaline; base, apex of tibiae, tarsi yellowish, scape, pedicel and ring-joints reddish brown. Funicle 1 longer than wide, 3 and 4 wider than long; club 4 linear, terminating in a long colorless spine; thorax coarsely punctate, the head more delicate scaly-punctate as also the propodeum. Latter with a median carina. Scutellum projecting over propodeum. Mandibles tridentate, the middle tooth distinctly longest, all acute. Hind tibiae not yellow at apex. Three long bristles in a row near marginal vein. Scutellum with no bristles; submarginal with five. Habits unknown,
perilampoides Girault