AMERICAN HYMENOPTERA.  255


BY E. T. CRESSON.

Family EVANIIDÆ.

Aulacus occidentalis. — ♀.—Black; head subquadrate, broad behind eyes, vertex finely rugulose, behind ocelli feebly punctured; occiput sometimes tinged with ferruginous; mouth more or less dull yellowish; antennae as long as thorax and abdomen, scape ferruginous beneath; thorax transversely wrinkled; middle lobe of mesothorax gibbous, emarginate, rounded in profile; scutellum almost smooth; wings stained with yellowish fuscous, with a brilliant violaceous reflection, a subquadrate blackish cloud beneath stigma, sometimes extending indistinctly beneath second submarginal cell, extreme apex of anterior wings fuliginous; legs ferruginous, tibiae and tarsi generally paler, coxae and trochanters black; abdomen as long as head and thorax, polished, ferruginous, apical segments more or less black; ovipositor as long as body. Length .55 — .60 inch.

Var. — ♀.—Head except band across vertex sometimes obsolete, scape, middle lobe of mesothorax, metathorax more or less, spots on pleura, and legs entirely, ferruginous. Length .50 — .60 inch.

Var. — ♀.—Body and legs entirely pale ferruginous, antennae except basal joint black. Length .55 inch.


Aulacus melleus. — ♀.—Pale ferruginous, shining; face roughened, vertex and occiput feebly punctured; tips of mandibles and palpi black; antennae as long as the body, black, basal joint ferruginous; mesothorax transversely wrinkled, the middle lobe gibbous, emarginate, rounded in profile, lateral lobes with a longitudinal deeply impressed line; scutellum subobsolete wrinkled; wings yellowish-hyaline, with a slight violaceous reflection, a square violaceous black mark beneath stigma, extreme apex of anterior wing also black; posterior coxae smooth and polished, incisure between posterior trochanters black; abdomen longer than head and thorax, the petiole being unusually long and slender; ovipositor much longer than body. Length .60 — .65 inch.

Hab. — Nevada, (Morrison). Two specimens. Closely resembles the ferruginous variety of occidentalis, but the antennae, abdomen and ovipositor are longer than in that species, and the wings are without the brilliant violaceous reflection.

Aulacus consors. — ♂.—Black; face pubescent, vertex and occiput smooth and shining, mouth and scape beneath pale ferruginous; mesothorax and scutellum transversely wrinkled, the anterior lobe gibbous, slightly emarginate, rounded in profile, side lobes with a longitudinal impressed line; wings yellowish hyaline, with a subquadrate violaceous black spot beneath stigma, extreme tips of wings dusky; legs ferruginous, posterior coxae mostly black;
abdomen ferruginous, shining, basal half of first segment above, sometimes a spot on the sides near apex, a spot on apex of second segment above, and the remaining segments except base of third segment black. Length .50—.60 inch.

Hab.—Nevada, (Morrison). Four specimens. This may prove to be the ♂ of *occidentalis* or *melleus*.

**Aulacus firmus.** — ♀.—Black, thinly clothed with a short fine griseous pubescent, more obvious on face; head subquadrate, broad but not long behind eyes; face finely rugose, vertex and occiput feebly punctured; antennæ entirely black; mesothorax finely transversely wrinkled, middle lobe not gibbous, broadly deeply emarginate centrally, and broadly rounded in profile; scutellum wrinkled; wings hyaline, with a slight violaceous reflection, a square violaceous black spot beneath stigma, not extending beneath second submarginal cell, a small fuliginous cloud at base of first discoidal cell and another at extreme tip of wing; legs black, tibiae more or less tinged with fuscous, the anterior pair pale in front; abdomen short, scarcely as long as thorax, petiole very short, first, second and third segments ferruginous, with a large black mark above; ovipositor as long as body. Length .55 inch.

Hab.—Colorado, (Prof. Snow). One specimen.

**Aulacus montanus.** — ♀.—Black, thinly clothed with a short fine griseous pile, more obvious on face; head quadrate, broad and prominent behind eyes, face sparsely and finely punctured, vertex occiput and cheeks smooth and polished; antennæ as long as head and thorax, entirely black; thorax above coarsely, transversely wrinkled, middle lobe of mesothorax gibbous, subpyramidal in profile, emarginate centrally, anterior margin of pro thorax with a strong acute tooth; wings hyaline slightly tinged with fuscous, an irregular violaceous black cloud beneath stigma, extending beneath second submarginal, extreme base of externo-median cell, and basal margin of first discoidal also with a blackish cloud; legs entirely black, posterior coxae transversely aciculated; abdomen as long as head and thorax, polished, slender at base, ferruginous, base of first segment, and disk above, and the two or three apical segments black; ovipositor scarcely as long as body. Length .54 inch.

Hab.—Nevada, (Morrison). Two specimens. The anterior margin of pro thorax has a strong acute tooth on each side.

**Aulacus pacificus.** — ♀.—Black; head long behind eyes, but narrowed to posterior margin, face finely roughened, vertex and occiput smooth; mouth sometimes more or less dull yellowish; antennæ nearly as long as body, scape sometimes dull yellowish beneath; mesothorax transversely aciculated, sometimes obsoletely so, middle lobe scarcely gibbous, rounded in profile, and longitudinally grooved above anteriorly; tegulae dull yellowish; wings hyaline, tinged with yellowish, a small fuliginous spot beneath stigma; legs pale ferruginous, inclining to dull yellow, coxae and trochanters black, posterior femora and tibiae sometimes more or less fuscous; abdomen about as long as head and thorax, slender at base, polished, ferruginous, first segment at base, a broad band at tip, and disk of remaining segments more or less, black; ovipositor longer than body. Length .50—.55 inch.

Hab.—Vancouver's Island, (Crotch). Four specimens.

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