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## New Halictinae from the Western United States

J. C. Crawford

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# INVERTEBRATA PACIFICA

Edited by C. F. Baker, Estación Agronómica, Santiago de las Vegas, Cuba

## HYMENOPTERA

NEW HALICTINAE FROM THE WESTERN UNITED STATES

BY J. C. CRAWFORD.

3051 *Halictus mellipes* n. sp.

♀. Black, head and thorax slightly shining, abdomen very shiny, pubescence very ochraceous; facial quadrangle slightly longer than broad, hardly narrowed below; clypeus greatly produced; face above antennae closely rather finely punctures, below coarsely obliquely so; clypeus very shiny with large punctures; mesothorax smooth, rather finely and closely punctured; base of metathorax longitudinally wrinkled to apex, rounded behind; truncation with no sign of salient rim; wings yellow, distinctly darkened at apex; nervures and stigma testaceous, tegulae dark with a reddish center; legs black; tarsi, intermediate and hind knees, intermediate tibiae behind, and hind tibiae rufous; pubescence of legs golden; hind inner spur with numerous saw-like teeth; abdomen closely and finely punctured more sparsely so on first segment; bases of segments 2-4 with bands of appressed ochraceous pubescence. Length about 9 mm.

Mts. near Claremont Cal.; on Ribes. (Baker.)

This species has the coriaceous lustre of *coriaceus* but differs from that species by its narrower face, more shiny mesothorax, more rugose metathorax, no salient rim at edge of base, less numerous punctures on first abdominal segment, large second submarginal etc. This is a *Lasioglossum*.

testaceous; segment 1 sparsely finely punctured, bases of other segment

**Halictus robustus n. sp.**

♀ Black, shiny, especially the abdomen, very robust; facial quadrangle broader than long, face above antennae closely rather finely punctured, below more coarsely obliquely so; clypeus smooth, shiny, sparsely punctured; antennae dark; pubescence of head and thorax abundant, distinctly ochraceous; thorax closely and rather finely punctured, shiny, not lineolated; median and parapsidal grooves well impressed; truncation of metathorax not surrounded by a salient rim; surface of truncation finely lineolate and with scattered punctures; metapleurae finely lineolate and with a few punctures, at the upper posterior angles finely roughened; base of metathorax narrow, finely longitudinally wrinkled to apex, not enclosed but set off from the pleurae by an angle; mesopleurae rugosopunctate; tegulae black with a red center; wings slightly yellowish and slightly dusky at apex, nervures and stigma almost honey color; second submarginal cell almost as long as third, the latter narrowed about one-third to marginal; legs black, pubescence ochraceous, hind inner spur with about 6 broad, blunt saw-like teeth; abdomen finely closely punctured, including the first segment; apical margins of segments narrowly testaceous, bases of segments 2-4 with bands of appressed slightly ochraceous pubescence; base of segment 1, apical margins of 2-3 and 4 and 5 entirely thinly covered with ochraceous pubescence. Length  $9\frac{1}{2}$  mm.

Claremont Calif. (Baker.)

In general appearance like the *arcuatus* group, but the closely punctured first abdominal segment separates it from all of them. This is an *Ecyllaeus*.

4689 **Halictus nigrescens n. sp.**

♀ Black, head and thorax closely and finely punctured, finely lineolate, dull; thinly covered with whitish pubescence slightly ochraceous on dorsum of mesothorax; facial quadrangle broader than long; punctures above antennae crowded; antennae dull reddish beneath toward apex; median groove deeply impressed, parapsidal grooves distinct; truncation of metathorax surrounded by a cordate rim reaching beyond upper lateral angles but very faint above medially; disc of metathorax shiny, slightly irregularly wrinkled, wrinkles reaching apex, the surface somewhat roughened; wings slightly dusky, nervures and stigma honey-color; second submarginal fully as long as third, the latter narrowed about one-third to marginal; tegulae large, dark, with a light center and a broad hyaline border; legs dark, apical joints of tarsi reddish, hind inner spur with about four rather short teeth; abdomen shiny, transversely lineolate, depressed apical margins of segments broadly testaceous; segment 1 sparsely finely punctured, bases of other segment

closely so; abdomen covered with sparse dirty whitish pubescence more abundant apically and with lateral basal patches of appressed whitish hair on segments 2 and 3 and similar hair scattered over segment 4. Length about  $6\frac{1}{2}$  mm.

Mts. near Claremont, Cal. (Baker;) on *Salix*. This is an *Evylla*cus.

4687 *Halictus latifrons* n. sp.

♀ Black, head and thorax finely lineolate, thorax somewhat shiny; facial quadrangle much broader than long; head and thorax with abundant long rather ochraceous pubescence; face above antennae closely punctate, punctures crowded; sides of face below antennae as if with short vertical striae caused by sparse oblique punctures opening towards the eyes; clypeus and supra-clypeal area shining, with sparse fine punctures; mesothorax with fine close punctures; median and parapsidal grooves distinct; base of metathorax finely irregularly rugulose to apex; salient rim of truncation not reaching to upper lateral angles but faintly indicated above; truncation not sculptured, finely lineolate and with scattered setigerous punctures; metapleurae finely <sup>lineolate</sup> wings slightly dusky, nervures honey-color; second submarginal much smaller than third; third only slightly narrowed above; tegulae largely testaceous; legs dark brownish; hind inner spur with about seven very oblique teeth; abdomen brownish black, shiny, first segment finely sparsely punctured, other segments closely so at bases; depressed apical margins finely transversely lineolate and largely testaceous; small lateral basal hair patches on segments 2 and 3. Length about 7 mm. Santa Clara Co., Calif. (Baker.)

Differs from *arcuatus* in the non-sculptured truncation of metathorax, finer sculpture of base of metathorax, salient rim of truncation not complete and smaller size; from *granosus* in its smaller size, finer sculpture of base of metathorax, and finer, closer punctures on abdomen; *occultus* is said to greatly resemble *granosus* but has the four teeth of hind inner spur oblique and only hair patches on segments 2 and 3, so the same characters may apply. Differs further from all of the above in the numerous teeth of the hind inner spur. This is an *Evylla*cus.

4688 *Halictus ruficornis* n. sp.

♂ Black, shiny, face closely and finely punctured above antennae; face long and narrow, covered with dense white appressed pubescence below antennae; antennae long, flagellum fulvous beneath, joint 4 longer than 3; clypeus anteriorly, and mandibles basally, yellowish; knees and tarsi testaceous, tubercles reddish; mesothorax finely and closely punctured, shiny, lineolated only anteriorly, median and parapsidal grooves

well impressed; truncation of metathorax without a salient rim, finely lineolated and with fine oblique punctures pointing downward; base of metathorax finely irregularly longitudinally wrinkled not reaching the apex, the intervening space finely lineolated but shiny; mesopleurae finely roughened, with large irregular shallow punctures; metapleurae finely rugose, appearing as punctures under a low power, at upper edge distinctly punctured; wings hyaline, nervures and stigma brownish; tegulae largely testaceous; abdomen black, shiny, not lineolated, rather finely, closely punctured, the first segment more sparsely so; the depressed apical margins of segments inclining to reddish; base of the 4th ventral segment medially with a triangular elevated enclosure. Length about 6 mm.

Ormsby Co. Nev., July (Baker.) This is an *Evyllacus*.

5018 *Halictus cyaneonotus* n. sp.

♀ Head and thorax dark green, dull, metathorax a deep Prussian blue, greatly contrasting, abdomen black, with metallic reflections; pubescence of head and thorax ochraceous; facial quadrangle broader than long; face above antennae with fine crowded punctures somewhat sparser and coarser below; clypeus and supraclypeal area largely purplish black, sparsely punctured; mesothorax finely very distinctly lineolated, with close rather coarse punctures; median and parapsidal grooves plain; base of metathorax not enclosed, with very numerous irregular longitudinal rugulae, reaching apex; truncation rounded above, the surface finely lineolate and with a few faint striae running upward from the center of the base; wings slightly yellowish-dusky; second submarginal large, narrowed to marginal; nervures and stigma testaceous; tegulae dark with a reddish center; legs brown, pubescence slightly ochraceous; hind inner spur with about three long teeth; abdomen impunctate, finely transversely lineolate, bases of segments 2 and 3 and almost all of 4 thinly covered with whitish appressed pubescence; depressed apical margins of segments dark reddish. Length about 6 mm.

Ormsby Co., Nev., July. (Baker.) This is a *Chloralictus*.

5030 *Halictus albohirtus* n. sp.

♀ Brassy green, very close to *pruiniformis* but differs in being more shiny, the mesonotum not lineolated but shiny; nervures except subcosta all light, base of metathorax with rugulae not reaching to apex, the intervening space smooth and shiny, broad apical margins of abdominal segments whitish; the whole insect covered with snow white pubescence (in *pruiniformis* more griseous) subappressed on head and thorax and appressed on abdomen; legs dark, middle and hind tarsi testaceous contrasting with tibiae; hind inner spur with about four teeth. Length about 5½ mm.

Ormsby Co. Nev., July. (Baker) This is a *Chloralictus*.

6107 *Halictus hyalinus* n. sp.

♀ Head and thorax almost as in *pruiniformis* but more shiny and the base of metathorax indistinctly roughened and with only a few rugulae at each side and one medially, these not reaching apex, the apical part smooth and shiny; wings hyaline, nervures light; legs dark, tarsi testaceous, hind inner spur with about 4 long teeth; abdomen dark brown, apical margins of segments narrowly testaceous, abdomen finely punctured, first segment very sparsely so, transversely lineolate. Length about  $5\frac{1}{2}$  mm.

Ormsby Co. Nev. July 6. (Baker.)

This species has whitish wings similar to *albipennis* from which it is distinguished by the much smoother metathorax, more shiny mesothorax, lighter colored legs etc. This is a *Chloralictus*.

5026 *Halictus brunneiventris* n. sp.

♀ Head and thorax green with whitish pubescence; abdomen aeneous brown, thinly covered with whitish hairs except on discs of segments 1-3; face dull from crowded strong punctures; facial quadrangle much longer than broad, inner orbits subparallel; clypeus sparsely punctured, produced, reddish apically; antennae beneath reddish; punctures of mesothorax coarser than on head, close, surface lineolated, somewhat shiny, median and parapsidal grooves well impressed; mesopleurae with coarse punctures; metathorax rounded behind, base lineolated and with irregular longitudinal striae almost reaching apex; truncation lineolated, otherwise almost non-sculptured; metapleurae lineolated and with a few setigerous punctures; tegulae light; wings slightly dusky, nervures and stigma light honey color; legs brown, pubescence whitish; hind inner spur with about three long teeth; abdomen closely, finely punctured, broad apical margins testaceous, and indistinctly transversely lineolated. Length about 4 mm.

Ormsby Co. Nev., July, (Baker.) This is a *Chloralictus*.

6108 *Halictus tegulariformis* n. sp.

♀ Very close to *tegularis* but differs in having the parapsidal grooves not apparent, first abdominal segment not transversely lineolate, punctures along the median groove on mesothorax not finer than rest and close (in *tegularis* much finer than others and sparse) wings more yellowish. Length about 5 mm.

♂. Differs from *tegularis* by the first two characters given above for the female. Length about 4 mm.

Ormsby Co. Nev. July 6. (Baker.) This is a *Chloralictus*.



4674 *Halictus longicornis* n. sp.

♂ Head and thorax rather brassy green, abdomen very dark brown, aeneous; punctures of head fine, close; pubescence of head and thorax abundant, griseous; antennae very long, reaching to middle of first abdominal segment, red beneath; mesothorax finely lineolate, somewhat shiny, sparsely, finely punctured, median and parapsidal grooves plain; base of metathorax strongly rugose, truncation not surrounded by a salient rim, the surface lineolate, rather coarsely sculptured; wings dusky, nervures very dark brown, stigma more reddish; legs black, tarsi yellowish testaceous; abdomen with rather close fine punctures, broad apical margins smooth impunctate. Length 6 mm.

Santa Clara Co. Cal. (Baker.) This is a *Chloralictus*.

4658 *Halictus incompletus* n. sp.

♀ Head and thorax green, abdomen dark brownish, the apical margins of segments testaceous; facial quadrangle slightly longer than broad; face closely and finely punctured; antennae reddish beneath apically; labrum testaceous, mandibles ferruginous, the bases testaceous; head and thorax finely lineolate, dull, mesothorax finely closely punctured; median groove plain not deeply impressed, parapsidal grooves distinct; truncation with a cordate salient rim broken at upper lateral angles, strong above except medially; laterally the ends of the upper section recurved forward, base of metathorax with an elevated triangular area indicated by an angulated edge, and having a few strong irregular rugae reaching apex, those medially not so strong; surface lineolated; truncation lineolate and with a few weak striae running upwards from basal center, wings subhyaline, nervures and stigma honey color; second submarginal broad, narrowed above; third narrowed nearly one half to marginal; tegulae largely dark testaceous; legs brown, tarsi testaceous contrasting; hind inner spur with about four long teeth; abdomen with scattered minute punctures, transversely lineolate, thinly clothed with appressed whitish pubescence except on discs of segments 1 and 2. Length about 5 mm.

Mts. near Claremont, Cal. (Baker), on *Ribes*; Ormsby Co. Nev. July 6. (Baker.) This is a *Chloralictus*.

6109 *Halictus nevadensis* n. sp.

♀ Head and thorax green, finely lineolate, dull; abdomen brown, apical margins of segments testaceous, the first two segments sometimes reddish; facial quadrangle slightly longer than broad; face with crowded fine punctures; mesothorax with rather sparse, fine punctures; median

groove well impressed, parapsidal grooves faint; truncation of metathorax not surrounded by a salient rim, its surface finely lineolate; base of metathorax with irregular striae not reaching apex the intervening space lineolate, slightly elevated, making it appear as if enclosed when looking at the insect from the front; mesopleurae rugoso-punctate, metapleurae finely roughened; tegulae and nervures testaceous, stigma honey color; second submarginal rather broad, narrowed towards marginal; third narrowed about one-third to marginal; legs brown, hind inner spur with three long teeth; abdomen transversely lineolate, with scattered minute punctures, segments 2-3 with thin lateral basal hair patches of appressed white pubescence and 4 thinly covered with it; Length 4 mm.

Three Rivers, Calif. (Culbertson.) Ormsby Co. Nev. July (Baker) Very much like *incompletus* but the different structure of the metathorax readily separates them. This is a *Chloralictus*.

4660 *Halictus punctatoventris* n. sp.

♀ Head and thorax brassy green, slightly shining; the metathorax more bluish; pubescence of head and thorax dirty whitish; the abdomen brown with a bronzy tinge and thinly covered with white pubescence more abundant apically; facial quadrangle slightly broader than long, face finely lineolate, closely, deeply coarsely punctured; mesothorax finely, very distinctly lineolate, coarsely rather sparsely punctured; median groove distinct but not deeply impressed, parapsidal grooves distinct; base of metathorax rather coarsely irregularly rugose to apex; indistinctly enclosed by the irregular rugae more apparent laterally; truncation not surrounded by a salient rim, the surface finely lineolate; mesopleurae coarsely punctured, shiny; metapleurae finely roughened dull; tegulae dark, with a reddish center, wings slightly dusky, the stigma honey color, nervures more reddish; second submarginal about two-thirds as broad as third; third narrowed almost one-half to marginal; legs dark. their pubescence dirty whitish, hind inner spur with about four long teeth; bases of segments 2 and 3 with thin appressed pubescence; all segments finely closely punctured, the apical margins reddish. Length about 5 mm.

Claremont, Calif. (Baker.)

Male. Similar, form parallel; face broad, narrowed below, antennae fulvous beneath; punctures of head and thorax finer than in ♀ and closer on mesothorax; rugae of metathorax more numerous and regular than ♀; abdomen more black, apical margins of segments brown; punctures closer, more distinct. Length about 5 mm.

Pine Lake, So. Calif. (Johnson.) This is a *Chloralictus*.



4661 *Conanthalictus Bakeri* n. sp.

♀ Green, the metathorax blue-black; whole insect covered with sparse long white pubescence; head about as broad as long, with the facial quadrangle broader than long and the inner orbits nearly straight and parallel; face with narrow wedge shaped foveae, the broad end down; clypeus black, smooth, shiny; head finely lineolate, dull, with very sparse fine punctures, just behind the eyes a narrow smooth impunctate strip; antennae short, hardly reaching the mesothorax, the scape reaching only about half way to the anterior ocellus; mesothorax, scutellum and postscutellum finely lineolate but somewhat shiny, with a few scattered fine punctures except on the postscutellum; median groove deeply impressed, parapsidal grooves faint; truncation of metathorax not surrounded by a salient rim; base of metathorax with a semicircular area which is finely tuberculate and with a few fine longitudinal wrinkles basally; this area set off only by the edge being somewhat angulate and by the rest of the metathorax including the pleurae being lineolate; metapleurae separated from notum by a slight angle; tegulae largely testaceous, wings slightly dusky, iridescent, nervures and stigma testaceous; second submarginal narrow, narrowed above; third submarginal narrowed about one-half to marginal; legs brown, tarsi more reddish; femora greenish above, pubescence of legs brownish; abdomen with the depressed apical margins of segments testaceous; abdomen finely transversely lineolate, more closely so on bases of segments; anal fimbria sooty brownish. Length about  $4\frac{1}{2}$  mm.

Claremont, Calif. (Baker.)

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After November 1, 1907, the address of C. F. Baker will be Museu Goeldi, Pará, Brazil. Mr. Baker's entomological work will be continued as heretofore. He requests that all letters and packages be sent to the above address.

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