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## New American Bees.— VI.

T. D. A. Cockerell

*University of Colorado*

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margin of the pronotum is straight and very wide, the head narrow (figs. 3-4).

*Elasmucha grisea* (= *Acanthosoma interstinctum*, Saunders = *Cimex betulae* De Geer) is celebrated for its parental affection (cf. 'Entomologist,' 1903, p. 114). An early nymphal instar has a remarkably produced head, the central lobe being twice as long as the lateral ones. The species of *Eurydema* (*Strachia*) have strongly coloured, cylindric eggs, with truncate ends.

The nymphs of Tingidæ are usually curiously spined, while those of many Reduviids are sticky and so become covered with dust, pollen, cast skins of their prey, &c. The eggs of Reduviids are deposited, like those of Cimicids, on the surfaces of leaves, and have ornamented caps of noteworthy form. The eggs of Nabidæ are inserted in plant-tissue, almost to their very end.

Among specially interesting British Hemiptera, of which the life-histories are only partially, or not at all, known, I would suggest: *Eysarcoris fabricii* (= *melanocephalus*) on *Stachysylvatica*; *Rhytidolomia* (= *Pentatoma*) *juniperina* on *Juniperus communis*; *Eurydema oleracea* on Cruciferæ; *Elasmucha grisea* on *Betula alba*; and *Monanthia cardui* on *Carduus crispus*. These five are all common, at least locally, and should be easy to observe and rear up. I may perhaps be allowed to refer to two of my own papers which may be of interest in this connection, viz.:—"Upon Maternal Solicitude in Hemiptera, &c." Entom. 1903, pp. 113-20. "Biological Notes on the Hemiptera of the Hawaiian Isles. No. 1." P. Haw. E. S. i. 135-61; 4 text figs.

My friend Mr. de la Torre Bueno has recently described the stages of several waterbugs very fully in the 'Canadian Entomologist.'

## NEW AMERICAN BEES.—VI.

By T. D. A. COCKERELL.

*Osmia copelandica*, sp. nov.

♀. Length 7 mm.; black, with a very faint brassy tint on the front, and the abdomen with an obscure purplish lustre, and the hind margins of the segments very narrowly ferruginous; *ventral scopa pure white*; conspicuous white hair at sides of face, sides of metathorax, and to a less degree about tubercles; first and second abdominal segments with conspicuous white marginal hair-bands, on the sides only; hair on inner side of hind tarsi white tinged with golden; head and thorax densely punctured; head large, cheeks broad; flagellum faintly reddish beneath; mandibles tridentate; clypeus prominent, rather produced, the lower margin gently concave; tegulæ dark reddish; wings a little infuscated; abdomen shining, finely punctured; spurs yellowish-ferruginous, not dark; pulvillus large. A very distinct species, apparently related to the European *O. adunca* (Panzer), but much smaller.

*Hab.* Copeland Park, Boulder County, Colorado. Sept. 4th, 1907 (S. A. Rohwer).

*Epeolus hitei*, sp. nov.

♀. Length  $7\frac{1}{4}$  mm.; black, with the usual markings; head and thorax densely rugoso-punctate; head broad, eyes strongly converging below; labrum, mandibles, and first three antennal joints ferruginous; tegulæ, tubercles, tibiæ, tarsi and femora at apex and narrowly beneath, all lively ferruginous; anterior middle of mesothorax with a rather V-shaped mark of light pubescence; scutellum bigibbous, extending beyond the short lateral teeth; pleura with a very broad and conspicuous transverse band of light hair, below which it is nude or almost, very densely rugoso-punctate; spurs reddish-white; wings with a distinct dusky shade beyond the marginal cell; stigma ferruginous; abdomen with broad yellowish-white hair-bands; first segment with a long transverse dark area, and the marginal band interrupted in the middle. In Robertson's table (Canad. Entom. October, 1903) this runs to the neighbourhood of *E. autumnalis* Rob., but is very distinct from that by the markings of the thorax, larger punctures of scutellum, &c. The resemblance is closer to *E. beulahensis*, Ckll., but the thorax is much less hairy than in that species, and the lateral oval spots on second abdominal segment are wholly wanting, while the dark area on the first is not pure black, but is covered with fine golden-brown pubescence.

*Hab.* Copeland Park, Boulder County, Colorado. September 6th, 1907 (G. M. Hite).

*Sphecodes lautipennis*, sp. nov.

♂. Length 8 to 9 mm.; black, with the abdomen red except at base and apex; face covered with white hair; vertex with erect white hair; mandibles with the apical three-fifths ferruginous; antennæ black, flagellum thick, submoniliform; thorax with white hair, the mesothorax quite hairy, and with strong close punctures, the posterior middle shining and with the punctures widely separated; middle of scutellum flattened, shining and sparsely punctured; area of metathorax sharp-edged, and with very strong vermiform plications; legs black, the small joints of tarsi ferruginous; tegulæ testaceous, subhyaline and punctured in front; wings ample, very clear, almost milky, nervures very pale ferruginous, stigma more infuscated; abdomen parallel-sided but not especially narrow, shining; first segment very sparsely punctured, second with the apical two-thirds very sparsely punctured, the basal with fine close punctures; third with the fine punctures extending practically to the subapical groove; fifth and sixth segments, except apical margin of fifth, black, and a little blackish on the one before; black on first segment occupying the basal part, except a more or less evident median red patch, the hind margin of this black having two small projections. Fourth antennal joint as long as fifth, and not so long as 2 + 3; flagellum without facets beneath. Allied to *S. clematidis* Rob.; peculiar for the clear white wings.

*Hab.* North Four-mile Cañon, Boulder County, Colorado

(type locality). September 3rd, 1907 (S. A. Rohwer) ; Jim Creek, September 7th, 1907 (G. M. Hite).

*Ashmeadiella denticulata* (Cresson).

The species of Colorado and New Mexico, generally known as *Ashmeadiella buconis* (Say), should apparently be called *denticulata*. The latter has been considered a synonym of *bucconis*, but the ventral scopa of the female is white, whereas it is yellowish in *bucconis*. *A. denticulata* was collected at Boulder, Colorado, August 28th, 1907, by Mr. S. A. Rohwer.

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DESCRIPTIONS OF TWO NEW SPECIES OF CHRYSIDIDÆ FROM BORNEO.

By P. CAMERON.

*Hedychrum borneanum*, sp. nov.

Green, with brassy tints, the centre of mesonotum blue, ocellar region and the apical segment of abdomen tinged with purple; antennal scape and pedicel green, the flagellum black; wings hyaline, tinged with violaceous, the nervures black; tarsi rufo-testaceous. ♀. Length, 6 mm.

Kuching, Borneo (John Hewitt).

Vertex with fine widely, irregularly separated punctures; the front with much larger punctures, more closely pressed, below, laterally, almost forming reticulations; the space below the antennæ smooth. Mandibles green, brownish at the apex. Outer orbits for the greater part finely, closely, longitudinally striated. Pronotum smooth, impunctate, as is also the mesonotum, except for a row of large deep punctures along the outer edge. Scutellum smooth, with two large round punctures on the outer edge. Basal part of metanotum covered with large round deep punctures; the apical slope with an area in the centre above, transverse above, the apex obliquely narrowed to a point below. Propleuræ strongly punctured above, smooth below, the smooth part dilated upwards at the base. Mesopleuræ with large clearly separated punctures, the lowest of which form a regular longitudinal row; below is a row of six larger squarish foveæ, in a depression, bordered above and below by a keel. In the centre of the metanotum are two large areas, the basal squarish, the apical smaller and oval. Abdomen smooth and shining, the lower edge white and membranous. As usual, the frontal depression is finely transversely striated.

*Chrysis (Heptachrysis) hewittii*, sp. nov.

Green; the head, thorax, and basal segment of abdomen with a brassy tint; the ocellar region, the basal half of middle lobe of mesonotum, and the base of second abdominal segment narrowly, indigo-blue. Antennal scape and the basal two joints of flagellum dark

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