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New Bees from New Mexico

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NEW BEES FROM NEW MEXICO.

BY T. D. A. COCKERELL, N. M. AGR. EXP. STA.

Podalirius phenax, n. sp.—♂. Length about 9 mm.; appearance of *P. maculifrons* (Cress.), with the same white pubescence (mixed with black on hind part of mesothorax and front part of scutellum), the same clear wings (but the second submarginal cell is less narrowed above), and the same legs, except that the tarsi are wholly dark. The black antennæ are considerably longer, when the head is thrown back they reach to postscutellum; scape with a broad white stripe; first joint of flagellum a little *shorter* than third. Eyes a beautiful dark lavender or gray-blue, instead of green. Clypeus (except the narrow black anterior edge) a transverse supraclypeal band, lateral face-marks (triangular, with the upper side deeply excavated), labrum (except the usual pair of spots), and a large patch on mandibles, pure white, shining, like porcelain. Abdominal bands more or less interrupted in the middle; fifth segment without a band; apex with two spines.

Hab.—College Farm, Mesilla Park, N. M., April 13, 1898, at flowers of plum. Allied to *P. albatius* and *P. maculifrons*.

Andrena subaustralis, n. sp.—♀. Length about 10 mm.; black, the abdomen with a hardly noticeable greenish lustre. Pubescence rather abundant, but not hiding the surface, dull white, on upper parts of head and thorax pale dull ochreous. Head broad, facial quadrangle broader than long; face hairy; clypeus strongly and closely punctured, with no median smooth line; frons strongly striated; antennæ black, brown at tips; mandibles rufescent at ends, with a strong inner tooth; process of labrum broad, truncate at end. Mesothorax minutely tessellate, with rather shallow and sparse punctures; enclosure of metathorax triangular, poorly defined, minutely granular, feebly wrinkled at the base. Legs dark, quite densely pubescent, the pubescence on tarsi more or less tinged with fulvous. Tegulæ black; wings yellowish-hyaline, apical margin broadly smoky, but not conspicuously darkened; nervures and stigma honey colour. Abdomen oval, convex, tessellate and very minutely punctured; first and second segments with some white hair at sides; third to fifth segments with very thin bands of long white hairs, that on the third very broadly interrupted; anal fimbria bright orange-fulvous.

♂.—Similar, but smaller and narrower; flagellum wholly dark;
June, 1898

pubescence of thoracic dorsum with quite a fulvous tint ; abdomen thinly pubescent, but hardly banded, hair at apex yellowish or nearly white.

Hab.—Paraje, N. M., April 11th, 1898, at flowers of plum ; 3 ♂, 1 ♀. Differs from *A. Belfragei* by the pubescence being not so bright, clypeus without impressed line, wings not very dark at apex, abdomen not so punctate. Also rather resembles *A. polemonii*, Rob.

Andrena prunifloris, n. sp.—♀. Slightly over 10 mm. long, black, with grayish-white to white pubescence ; *hind tibiae, and all the tarsi, bright ferruginous*. Head broad, facial quadrangle broader than long ; face hairy, but not so as to hide the surface ; clypeus minutely rugose and strongly punctured, with a small shining space in the median line not far from the anterior margin ; frons striate, with punctures between the ridges ; vertex minutely tessellate, and punctured ; antennæ dark, flagellum only faintly brown towards the end, first flagellar joint fully as long as the two following together ; process of labrum broad and low, feebly emarginate ; mandibles wholly dark. Thorax with rather abundant pubescence, not hiding the surface, grayish-white or very pale mouse colour on mesothorax, otherwise white ; mesothorax microscopically tessellate, with strong, rather close punctures ; metathorax dull, enclosure triangular, ill-defined, with irregular feeble raised lines. Tegulæ piceous ; wings smoky subhyaline, nervures and stigma dark brown, third submarginal cell narrowed about one-half to marginal. Abdomen somewhat depressed, *shining, very distinctly punctured* ; hind margins of third and fourth segments with entire dense snow-white bands, second segment with a similar band broadly interrupted in middle, first with only patches of white pubescence at the sides ; *anal fimbria sooty*.

Hab.—Paraje, N. M., April 11, at flowers of plum. Allied to *A. violæ*, Rob.

Hesperapis, n. g.—A small bee with the general aspect of a Philere mine. Body rather densely clothed with very short mosslike pubescence ; longer hairs intermixed ; abdomen with entire hair-bands. Wings rather short ; stigma subobsolete ; marginal cell large, obtusely pointed, the apex not diverging from the costa ; two submarginal cells, the second about two-thirds the length of the first, narrowing rather more than one-half to marginal ; both recurrent nervures joining the second submarginal cell at about the end of the first and beginning of the last fifths. Hind legs with large black bristles. Ocelli large, very prominent,

in a broad triangle. Tongue short, pointed, daggerlike, its margin entire. Labial palpi 4-jointed, first joint long, but not excessively so, nearly as long as 3 and 4 together, these being about equal; 2 somewhat shorter than 1. Maxillary palpi 6-jointed, first three joints moderately stout, the other three very slender; 2 conspicuously longest, all the others about equally long. No ventral scopa in ♀.

Hesperapis elegantula, n. sp.—♀. Length, $6\frac{1}{2}$ mm.; head and thorax black, abdomen dark ferruginous. Head oblong, facial quad-rangle considerably longer than broad; face and cheeks with short snow-white pubescence, vertex with ochreous pubescence; clypeus with minute, rather sparse punctures; mandibles slender, reddish except at the extreme base, armed with a small tooth on the inner side; labrum clear ferruginous; antennæ short, especially the flagellum; scape and the rather large funicle black, flagellum brown; eyes dark, with a perceptible sage-green tint; pubescence of mesothorax and scutellum short and mosslike, with long hairs intermixed, ochraceous throughout, almost hiding the densely punctured surface; pubescence of postscutellum, metathorax and pleura white; basal triangle of metathorax minutely roughened, free from pubescence; tegulæ testaceous, pubescent; wings not reaching as far as tip of abdomen, hyaline, slightly milky or opalescent, stigma honey colour, nervures brown, subcostal nervure black; legs black, the knees and the hind tibiæ behind, reddish; pubescence of legs dull white; middle tarsi with a brown brush within; small joints of anterior tarsi with long dark lateral pencils of hair; outer side of hind tibia, and of basal joint of hind tarsus, with minute snow-white dense pubescence, and numerous long black bristles; abdomen somewhat depressed, of ordinary form, with five entire broad white hair-bands on the apices of the segments; the exposed ferruginous surface between the bands very minutely and closely punctured; fifth segment and apex with black bristles; pygidium shining, impunctate, with a small groove near its end; venter ferruginous, with no conspicuous pubescence.

Hab.—Mesilla Park, New Mexico, on campus of the Agricultural College, April 22, 1898, at flowers of *Dithyræa wislizenii* probably, possibly at *Senecio*. Collected by Mr. C. M. Barber.

This remarkable little bee seems to be most nearly allied to *Ammobates* (*Phileremus*), but it differs entirely in the mouth-parts, and might probably form a new tribe. From its structure and appearance it is probably parasitic in the nests of some other bee.