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## New Bees of the Genera Osmia and Andrena

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## NEW BEES OF THE GENERA OSMIA AND ANDRENA.

BY T. D. A. COCKERELL, BOULDER, COLO.

The bees now described not only appear to differ from any previously published; but they have been kindly examined by Messrs. Viereck and Titus, and found to differ from all of the numerous species which they have named in manuscript, and will shortly publish.

*Osmia Davidsoniella*, n. sp.

♂.—Length slightly over 8 mm., steel blue, the colour not especially bright, with dull white pubescence, which is long and erect on head and thorax; vertex and mesothorax closely and strongly punctured. Head larger, with the vertex broad; mandibles and antennæ black; flagellum slender, but not moniliform; mandibles strongly bidentate, the inner tooth broadly obliquely truncate; anterior edge of clypeus normal; tegulæ shining black; wings rather dusky, upper half of marginal cell strongly smoky, nervures black; legs black, hair on inner side of tarsi pale ferruginous; abdomen shining, with distinct but well-separated punctures; hind edge of sixth dorsal segment turned outwards, with a broad, very shallow emargination; seventh segment ending in two short spines, the interval between them being nearly twice the length of either.

*Hab.*—Los Angeles, California (*Davidson*). A discussion of the relationship of this and the following species will be given by Mr. Titus in his revision of *Osmia*.

*Osmia Titusi*, n. sp.

♀.—Length about 8 mm, dark olive green, bluer on the abdomen, yellower on the face, the clypeus with about the anterior half black, and the part just above the black crimson. Legs dark chestnut red. Pubescence dull white, the ventral scopa white, but in the type specimen full of orange pollen. Head and thorax extremely densely punctured, abdomen with close minute punctures. Head broad; flagellum chestnut red beneath; mandibles dark reddish towards ends, bidentate, both teeth long and sharp; anterior margin of clypeus normal; tegulæ shining bright rufo-fulvous; wings slightly dusky, nervures piceous; hind spurs bright ferruginous; hind tibiæ stout, basal joint of their tarsi broad; abdomen subglobose. The marginal cell is comparatively short, and broadly rounded at end; in *O. Davidsoniella* it is much longer, and bluntly pointed.

*Hab.*—Los Angeles, California (*Davidson*). Named after Mr. E. S. G. Titus, our best authority on the American species of *Osmia*.

November, 1905.

*Andrena Milwaukeeensis berberidis*, n. subsp.

♀.—Smaller; hairs of metathorax all black; light hair on first two abdominal segments less conspicuous; hair of thorax above darker and redder; facial foveæ much narrower; hardly one third of the breadth from eye to middle line (in *Milwaukeeensis* about half the breadth; clypeus more shining and closely punctured, without a median ridge).

*Hab.*—Boulder, Colorado, flying near *Berberis repens*, March 30, 1905 (*W. P. Cockerell*). Also collected at Boulder by Mr. G. Weston. Mr. Viereck is disposed to regard this as a distinct species.

*Andrena griseonigra*, n. sp.

♂.—Length about 10 mm.; black, the head and thorax with abundant very long hair, black except on the dorsum of thorax, where it is dull white; cheeks not toothed; facial quadrangle very much broader than long; antennæ black, third joint conspicuously longer than fourth; flagellum stout; clypeus shining strongly and very closely punctured, without an impunctate line or ridge; process of labrum broad, faintly depressed in the middle, but not notched; mesothorax dull; area of metathorax coarsely but irregularly ridged, not bounded by a rim; tegulæ black; nervures and stigma piceous; legs with black hair, more or less pallid on outer side of tibiæ and hind tarsi; abdomen shining, with minute shallow punctures and black hair, that at apex becoming gray.

*Hab.*—Los Angeles, Calif. (*Davidson*). Very close to *A. nigrihirta* (Ashm.), but larger, with dark spurs, dark stigma, etc.

*Andrena perimelas*, n. sp.

♀.—Length 16½ mm.; black, robust, with black pubescence, except that on thorax above, and a little on the vertex, which is a rather bright ochreous; wings strongly fuliginous, stigma and nervures ferruginous, the latter partly fuscous; process of labrum broadly rounded; clypeus very densely punctured, with an incomplete median smooth line; area of metathorax large, triangular, with a dull, minutely granular surface; abdomen distinctly but minutely punctured.

*Hab.*—Los Angeles, Calif. (*Davidson*). This is a large, brightly-coloured offshoot from the northern series of *A. pluvialis* and its allies.

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The abdomen is rougher, more hairy and duller than that of *A. pluvialis*. The form of the process of labrum at once separates it from *A. anogræ*.

The two following species are entirely black, with black pubescence; they have the colour of *A. Porterae*, but are larger and stouter, and have not the strongly produced clypeus of that insect. They are considerably larger than *A. nigerrima*, Casad.

*Andrena pertristis*, n. sp.

♀.—Length about 15 mm.; black, with black pubescence, that on sides of metathorax slightly brownish; wings deep fuliginous; clypeus ordinary in form, strongly and very densely punctured all over, except a shining median line; malar space practically obsolete; process of labrum narrowly truncate, with sloping sides; thorax above dull, with a dense velvety pubescence; enclosure of metathorax a nearly equilateral triangle, the sides of which are gently concave, the lateral ones bounded by an incised line, the surface of the area marked by an irregular rather coarse wrinkling, not forming distinct plicæ, and not confined to the basal portion; abdomen closely and very minutely punctured.

*Hab.*—Los Angeles, Calif. (*Davidson*).

*Andrena subtristis*, n. sp.

♀.—Length about 13 mm.; black, with black pubescence. Differs from *A. pertristis* by its smaller size; wings only slightly dusky; third submarginal cell much shorter; the densely punctured clypeus without a smooth line; last joint of flagellum reddish beneath; process of labrum with its apex thickened and having a slight pit; area of metathorax shorter (the angles of the triangle extremely acute), and rather more coarsely sculptured.

*Hab.*—Los Angeles, Calif., two (*Davidson*). Others are in the collection of the American Entomological Society. Long ago named as new in MS. by Mr. Davis, of Cambridge, but the name he used is not available.

ERRATUM.—Page 362, line 5 from top, for *Cinophanus* read *Cirrophanus*