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NEW BEES OF THE GENUS *ANDRENA*, FROM WISCONSIN.

BY T. D. A. COCKERELL, E. LAS VEGAS, N. M.

Andrena subcommoda, n. sp.

♀.—Length about 12 mm.; black; head and thorax with pale ochraceous or whitish hair, very short and thin on thoracic dorsum; head ordinary, facial quadrangle square; vertex behind the ocelli finely roughened and punctured; front below the ocelli punctured as well as grooved; facial foveæ broad, pale, closely adjacent to eyes; antennæ dark; clypeus thinly hirsute, shining, strongly but not densely punctured, no median smooth line; process of labrum truncate; maxillary palpi short; mesothorax shining, strongly but not densely punctured; metathorax very coarsely roughened, enclosure irregularly subreticulately ridged, but without a transverse bounding ridge; tegulæ dark, with a ferruginous spot; wings dusky with a yellow tint, nervures and stigma ferruginous, second submarginal cell broad; legs wholly dark; hind tibial spur of hind legs much curved; hair on inner side of basal joint of hind tarsi fulvous; abdomen shining, strongly and closely punctured, finely pubescent at sides, but without dorsal hair-bands; fimbria fulvous.

Hab.—Milwaukee, Wisconsin, June 11. (*Dr. S. Graenicher.*)

Differs from *A. Commoda* by not having ferruginous tarsi and hind tibiæ; also by the truncate process of labrum. By the latter character, among others, it differs from *A. pruni*.

Andrena Sigmundi, n. sp.

♀.—Length 10 mm.; black; pubescence brownish-white; head ordinary; cheeks densely and strongly punctured; antennæ dark; first joint of flagellum rather short; front below ocelli cribrately punctured; clypeus bare, very shiny, very densely and strongly punctured, with a narrow median impunctate line on the lower two-thirds; facial foveæ pale, narrow below, broadening gradually above; process of labrum truncate; mesothorax very strongly and densely punctured; scutellum the same; metathorax cribrate, very rough, enclosure with small vermiform plications and no transverse ridge; tegulæ piceous, with a brown spot; wings stained with yellowish; nervures and stigma dark ferruginous; first recurrent nervure entering second submarginal cell at the beginning of its last third; legs wholly dark; hair on inner side of basal joint of hind tarsi fuscous, shining coppery; abdomen suboval, shining, strongly and rather closely punctured; no hair-bands, but segments 4 and 5 fringed with shining hairs; fimbria auro-fuscous.

Feb. 1, 1902.

Hab.—Milwaukee, Wisconsin, May 26. (*Dr. S. Graenicher.*) This is very similar to *A. Forbesii*, but that species has a transverse ridge on the metathorax, and the punctures of the abdomen (especially the second segment) closer. Still, they are very closely allied.

Andrena multiplicata, n. sp.

♀.—Length about 9 mm. ; black ; head and thorax with stiff yellowish-white pubescence ; head ordinary, facial quadrangle square ; vertex with very large punctures ; front below ocelli cribrately punctured ; facial foveæ whitish, broad, closely adjacent to eyes ; antennæ dark ; clypeus polished, strongly and closely punctured, with a hardly defined median smooth line ; process of labrum rounded ; mesothorax and scutellum somewhat shining, with fairly close, large and deep punctures, those on scutellum very large and irregular ; base of metathorax very strongly longitudinally plicate, with a strong transverse ridge, the plicæ are about eight on each side of the middle line ; tegulæ piceous, with a pale margin and a fulvous spot ; wings dusky, with a yellowish tint, nervures and stigma dark ferruginous ; legs very dark brown, hind tarsi very dark ferruginous ; basal joint of middle tarsi rather broad ; hair on inner side of basal joint of hind tarsi light orange-fulvous ; abdomen strongly and closely punctured, punctures on basal part of second segment much smaller and closer than those on basal part of first ; segments 1 to 4 with lateral white hair-bands, those on 3 and 4 much narrowed medially, but nearly continuous ; fimbria fulvous.

Hab.—Milwaukee, Wisconsin, June 2. (*Dr. S. Graenicher.*) Belongs to the group of *A. rugosa*, and is allied to *A. Forbesii* and *A. grandior*.

Andrena radiatula, n. sp.

♀.—Length about 10 mm. ; black ; pubescence rather dense, reddish-brown dorsally, paler elsewhere ; abdomen not banded ; fimbria pale purplish-gray. This is closely similar to *A. Sigmundi*, but differs as follows : Head smaller, facial quadrangle narrower ; facial foveæ with a reddish tint, and narrowing more rapidly below ; clypeus hairy all over ; hair of thorax strongly reddish ; basal area of metathorax more regularly plicate and better defined ; third submarginal cell less narrowed above.

Hab.—Milwaukee, Wisconsin, June 16. (*Dr. S. Graenicher.*)

Andrena rufosignata, n. sp.

♀.—Length about 10 mm. ; black ; pubescence whitish, tinged with

yellow above, especially on the scutellum; head ordinary, facial quadrangle about square; antennæ rather long, flagellum dark ferruginous beneath towards end; cheeks tessellate and hardly or not punctured; front below ocelli striate; clypeus granular and dull at the sides, but disc strongly shining, with strong sparse punctures, the lower middle almost wholly impunctate; process of labrum rounded, broad, the end very slightly truncate; mesothorax minutely tessellate, dull, with shallow, hardly visible, punctures, median and parapsidal grooves distinct; scutellum slightly shining but not polished; base of metathorax granular, no transverse ridge; tegulæ piceous in front, dark reddish-brown posteriorly; wings nearly clear, apical margin slightly dusky; stigma clear ferruginous, nervures darker; legs dark, hair on inner side of basal joints of middle and hind tarsi fulvous; abdomen broad, tessellate-impunctate, without hair-bands; fimbria fulvous.

Hab.—Milwaukee, Wisconsin, May 19. (*Dr. S. Graenicher.*)

When one looks at the head from above, the broad facial foveæ are seen to have a strong red tint, which is very distinctive of the species.

Andrena clypeonitens, n. sp.

♀.—Length about $9\frac{1}{2}$ mm.; black; pubescence pale ochreous, brighter on scutellum; head broad, facial quadrangle somewhat broader than long; antennæ dark, flagellum very faintly reddish towards tip; front below ocelli striate; disc of clypeus bare, sparsely punctured, with a large shining impunctate space; process of labrum broad and rounded; facial foveæ pallid, rather broad, adjacent to eyes; mesothorax dull, minutely tessellate, impunctate; basal area of metathorax dull, defined only by absence of hair; tegulæ very dark brown; wings smoky, nervures dark brown, stigma dark ferruginous, with a dark brown margin; second submarginal cell nearly square; legs black, the three first small joints of tarsi deep ferruginous; hair on inner side of basal joint of hind tarsi fuscous, shining coppery; abdomen tessellate-impunctate, with continuous white hair-bands, that on the first segment reduced to a few scattered hairs, those on the others dense and conspicuous; fimbria and hair of penultimate segment dark purplish-gray.

Hab.—Milwaukee, Wisconsin, Aug. 19. (*Dr. S. Graenicher.*) A species of the group of *A. solidaginis* and *A. xanthigera*. The clypeus will at once separate it from *A. solidaginis*, which occurs in the same region,