

EXPLANATION OF PLATES X TO XIII.

PLATE X.

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| FIG. 1. <i>Celaenopsis pedalis</i> . | FIG. 6. <i>Laelaps multispinosus</i> , anterior dorsum. |
| 2. <i>Gamasus attenuipes</i> . | 7. <i>Gamasus attenuipes</i> , vulva. |
| 3. <i>Gamasus posticatus</i> . | 8. <i>Gamasus posticatus</i> , leg II. |
| 4. <i>Pterodectes muticus</i> . | 9. <i>Cheyletus longipes</i> . |
| 5. <i>Laelaps multispinosus</i> . | |

PLATE XI.

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| 10. <i>Listrophorus validus</i> , and head from side. | 13. <i>Laelaps propheticus</i> . |
| 11. <i>Listrophorus validus</i> , female tip of venter. | 14. <i>Tetranychopsis spinosa</i> . |
| 12. <i>Liponyssus canadensis</i> . | 15. <i>Laelaps pedalis</i> , and mouth-parts below. |
| | 16. <i>Sejus macropilis</i> . |

PLATE XII.

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| 17. <i>Rivoltasia bispinosa</i> . | 21. <i>Cheyletiella canadensis</i> . |
| 18. <i>Celaenopsis latus</i> . | 22. <i>Oribatella formosa</i> . |
| 19. <i>Myobia canadensis</i> . | 23. <i>Liacarus parvulus</i> . |
| 20. <i>Oribata neosota</i> . | |

PLATE XIII.

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| 24. <i>Pterodectes armatus</i> . | 28. <i>Laelaps longiseta</i> , dorsum. |
| 25. <i>Galumna sylvicola</i> . | 29. <i>Pelops terminalis</i> . |
| 26. <i>Cymeremaeus parvula</i> . | 30. <i>Laelaps longiseta</i> , venter. |
| 27. <i>Oribata perolata</i> . | 31. <i>Oribata canadensis</i> . |

NEW SPECIES OF ANDRENA.

[Hymenoptera, Andrenidæ.]

BY H. L. VIERECK.

The following species are described in anticipation of Mr. W. D. Pierce's forthcoming monograph of the Strepsiptera, in which the proposed names will be used.

Andrena crawfordi, new species.

Female, 10 mm. Ocular distance greater than the occipito-clypeal distance, facial fovea not extending below the antennal line, two-thirds as wide as or a little wider than two-thirds of the shortest distance between the lateral ocellus and nearest point on eye, fovea without a

welt-like space between it and the eye margin, process of labrum triangularly emarginate, clypeus smooth and distinctly punctured, with an inconspicuous median impunctate space, third joint of antennæ as long as fourth plus fifth plus sixth; dorsulum dull, middle metatarsus nearly as broad as the middle tibia, hind tibia dark, its scopa dense enough to obscure the tegument beneath, most of the scopal hairs branched; abdomen with the depression of the dorsal segments indistinct and extending from the apical margin toward the base less than one-half the length of the segment; tegument black, pubescence cinereous, anal fimbria dull golden, foveal pubescence tinged with yellowish in much the same way as the pubescence on the dorsum of the insect, wings hyaline, subcostal vein blackish, rest of the veins more or less brownish.

Male, 9 mm. Tegument of face black, its sculpture partly concealed by pubescence, cheeks rounded, third joint of antennæ a little longer than the next two joints combined; otherwise this sex is sufficiently like its mate to be readily associated.

Type—No. 10034, U. S. National Museum.

Type locality, Dallas, Tex., May 2, 6, 1905, on *Sitilias grandiflora* (Hunter Nos. 105, 265, collected by F. C. Bishopp and W. D. Pierce); ten male paratopotypes April 28 to May 7, 1905, May 8, 9, 1906 (Hunter Nos. 100, 105, 265, on *Sitilias grandiflora*, W. D. Pierce and F. C. Bishopp), also on the same flower by C. R. Jones and F. C. Pratt; nine female paratopotypes on *Sitilias grandiflora*, May 6, 7, 29, 1905, May 8, 1906 (Hunter Nos. 233, 265, F. C. Bishopp and C. R. Jones); also W. E. Hinds. These paratopotypes are all very true to the type. One male and three female paratypes respectively from New Braunfels, Cotulla (on *Coreopsis palmata* at the latter place), (J. C. Crawford), Corpus Christi (on *Sitilias grandiflora*) (F. C. Pratt) and Fedor, Lee County (Birkmann), all differ somewhat from the type, e. g., in the labrum of the females, excepting the Fedor specimen, being more truncate than emarginate and in the clypeus in the same specimens being rather more granular between the punctures and in the other or Fedor specimen having a rather flattened abdomen and in the male being somewhat larger.

***Andrena sitiliæ*, new species.**

Female, 13 mm. The size, more ochreous pubescence, yellow tibial scopa and more yellow anal fimbria will serve to distinguish this from *A. crawfordi*, with which it agrees in other respects: apical edge of dorsal abdominal segments pale.

Type—Female, No. 10033, U. S. National Museum.

Type locality, Cotulla, Tex., May 12, 1906, on *Coreopsis tinctoria?* (J. C. Crawford); paratype, Dallas, Tex., on *Sitilias grandiflora* (stylopized specimen), (J. C. Crawford).