

incrassate (except occasionally in smaller workers); workers are strongly polymorphic, smallest workers often bearing little resemblance to larger workers, and appearing in some ways similar to those of the *brevicornis* species complex. The females of two of the species are subdichthadiiform; the others are unknown. The males of this species complex can be distinguished as the petiole is elongated, much longer than broad.

Members include *A. bentoni*, *A. concavinodis*, *A. flexuosus*, *A. kirbyi*, *A. laevigatus*, *A. laticornis*, *A. lattkei*, *A. quadratus*, *A. serratulus* and *A. truncatus*.

texanus species complex

Large species with relatively well developed eyes; no median tooth on mandibles; hind femora not incrassated; petiole elongated, wider posteriorly; ventral process of petiole angulate posteriorly. *Acanthostichus texanus* and *A. emmae* are the only known members of the complex and are the only species known to have winged females. The male of *A. texanus* is similar to that of other species in most respects, although the genitalia are quite different (see discussion of *A. texanus*). Species *A.*, a fossil taxon, is presently being described by Ms. Maria L. de Andrade and may possibly be related to *A. texanus*. It has rudimentary eyes and a median tooth on the mandibles.

DESCRIPTIONS AND DISCUSSIONS OF SPECIES

***Acanthostichus arizonensis* new species**

Figs. 6, 17, 18; Map 1, p. 47

Description.

Worker: HL 0.94 - 0.95, HW 0.79 - 0.83, SL 0.43 - 0.44, SW 0.16, WL 1.28 - 1.32, PW 0.44 - 0.46, PL 0.46 - 0.48, FL 0.58 - 0.60, FW 0.25, SI 45 - 46, CI 84 - 87, PI 103 - 106, FI 2.30 - 2.40, SL/SW 2.62 - 2.69. Mandible with tooth-like protuberance on medial masticatory border (Fig. 6), which may be essentially worn away; lateral clypeal angles well formed; outer edge of scape convex; eye consisting of four or five poorly defined ommatidia; vertex concave; hind femora elongate, not incrassate; petiole slightly longer than broad, slightly wider posteriorly (Fig. 17); subpetiolar process poorly defined (Fig. 18). Sparse erect hairs (most less than 0.1 mm, some as long as 0.25 mm) scattered on all body surfaces. Mandibles, scape, head and mesosoma smooth and glossy, with scattered punctures. Dorsum of petiole and most terga of gaster with dense punctures.

Female: Unknown.

Male: Unknown.