



Resurrection and review of the genus *Knowltonia* Fisher, with description of a new subspecies of *Chrysobothris* Eschscholtz and new species of *Acmaeodera* Eschscholtz from North America (Coleoptera: Buprestidae)

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Abstract

The chrysobothrine genus *Knowltonia* Fisher is resurrected and discussed in connection with the closely related genera *Chrysobothris* Eschscholtz and *Sphaerobothris* Semenov-Tian-Shanskij & Richter. *Knowltonia* is reviewed, with *K. calida* (Knull) being elevated to a full species and a key to described species is given. *Chrysobothris socialis* Waterhouse is recognized as polytypic, with *C. socialis apache* Westcott and Barr, new subspecies, described from Arizona and northern Mexico. *Acmaeodera audreyae* Westcott and Barr, new species, is described from southern California and is related to *A. inopinata* Barr.

Key words: Buprestidae, *Knowltonia*, *Acmaeodera*, *Chrysobothris*, taxonomy, review, new species, new subspecies

Introduction

The following information brings together somewhat disparate treatments for groups long of interest to us, in which we have recognized the need for taxonomic change and the description of new taxa. We recognize *Knowltonia* Fisher (1935) to be a full genus distinct from *Chrysobothris* Eschscholtz. A new subspecies in *Chrysobothris* is described from Arizona and Sonora, Mexico, along with a new species in the genus *Acmaeodera* Eschscholtz from the Colorado Desert region of southern California.

In citing data on type specimen labels, backslashes indicate separate labels, and “h” means handwritten. Collection and institutional codens follow the “Insect and Spider Collections of the World” web site, (www.bishopmuseum.org/bishop/ento/codens-r-us.html, as of February, 2006). Codens appear at the end of data and may refer to multiple records preceding them. In specimen data “F” = female, “M” = male.

Genus *Knowltonia* Fisher, resurrected status

Knowltonia Fisher, 1935:117.

Chrysobothris: Cazier, 1938:17 (synonymy); Fisher, 1942:17 (synonymy).

Type species: *Knowltonia biramosa* Fisher, by original designation.

Gender: feminine.

Description. **Head** with clypeus broadly, shallowly, triangularly to arcuately emarginate; eyes separated on vertex by 1.2 to 2.2 times the eye width at middle of head. **Antenna** with 11 antennomeres, none being lat-