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## Revision of the Genus *Crioprosopus* Audinet-Serville, and description of three new genera of Trachyderini (Coleoptera: Cerambycidae: Cerambycinae)

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## Abstract

The genera *Callona* Waterhouse, 1840 and *Crioprosopus* Audinet-Serville, 1834 (Coleoptera: Cerambycidae: Cerambycinae: Trachyderini) are revised. The genus *Callona* is synonymized with *Crioprosopus*, and new genera, *Callistochroma gen. nov.*, *Megapurpuricenus gen. nov.* and *Pilostenaspis gen. nov.* are described. Five species, three previously included in *Callona* [*C. flavofasciata* Chemsak & Hovore, 2011, *lampros* (Bates, 1885), and *rutilans* (Bates 1869)], and two from *Crioprosopus* [*C. cacus* (Bates, 1885) and *viridipennis* (Latreille, 1811)], are transferred to *Callistochroma*, with *viridipennis* designated as the type species. Two species, one previously described as *Crioprosopus* (*C. lateralis* LeConte, 1884) and another from *Stenaspis* Audinet-Serville (*S. pilosella* Bates, 1892), are transferred into *Pilostenaspis*, with *lateralis* designated as the type species. *Crioprosopus magnificus* (LeConte, 1875) is transferred into *Megapurpuricenus*, and designated as the type species. Keys to the above genera and species along with illustrations of the available species in color are included. New species described include: *Pilostenaspis copei sp. nov.* from Mexico; *Crioprosopus wappesi sp. nov.* from Guatemala; *Crioprosopus hondurensis sp. nov.* from Honduras; *Callistochroma chrysiptera sp. nov.* and *Crioprosopus chiriquiensis sp. nov.* from Panama, and *Callistochroma viridipurpurea sp. nov.* from Colombia.

**Key words:** Central America, key, Mexico, taxonomy, Trachyderina, United States

## Resumen

Revisamos los géneros *Callona* Waterhouse, 1840 y *Crioprosopus* Audinet-Serville, 1834 (Coleoptera: Cerambycidae: Cerambycinae: Trachyderini). El género *Callona* se sinonimiza con *Crioprosopus* y se describen nuevos géneros, *Callistochroma gen. nov.*, *Megapurpuricenus gen. nov.* y *Pilostenaspis gen. nov.*. Cinco especies, tres previamente incluidas en *Callona* (*C. flavofasciata* Chemsak & Hovore, 2011, *lampros* (Bates, 1885) y *rutilans* (Bates, 1869)), y dos en *Crioprosopus* (*C. cacus* (Bates, 1885) y *viridipennis* (Latreille, 1811)), se transfieren a *Callistochroma*, con *viridipennis* designados como especie tipo. Además, dos especies, una descrita previamente en *Crioprosopus* (*C. lateralis* LeConte, 1884) y otra de *Stenaspis* Audinet-Serville (*S. pilosella* Bates, 1892), se transfieren a *Pilostenaspis*, con *lateralis* designada como especie tipo. *Crioprosopus magnificus* (LeConte, 1875) se transfiere a *Megapurpuricenus*, y es designada como especie tipo. Se incluyen las claves para los géneros y las especies anteriores, junto con las ilustraciones de las especies disponibles en color. Nuevas especies descritas: *Pilostenaspis copei sp. nov.* de México; *Crioprosopus wappesi sp. nov.* de Guatemala; *Crioprosopus hondurensis sp. nov.* de Honduras; *Callistochroma chrysiptera sp. nov.*, y *Crioprosopus chiriquiensis sp. nov.* de Panamá; y *Callistochroma viridipurpurea sp. nov.* de Colombia.

**Palabras clave:** América Central, Estados Unidos, llave, México, taxonomía, Trachyderina

## Introduction

The genera *Callona* Waterhouse, 1840, and *Crioprosopus* Audinet-Serville, 1834, are groups of moderate-sized to large Trachyderini, which are brilliantly colored and either metallic green to bluish or yellow to reddish with dark markings. As currently defined, the genus *Callona* and the closely allied *Crioprosopus*, contain twenty-one species ranging in distribution from the southwestern United States to Venezuela. The generic distinction of *Callona* and *Crioprosopus* is in need of clarification due to the description of both genera being based solely on females (monobasic), the absence of male of the type species of these genera, and the sexual dimorphism displayed by several subsequently described species. Scarcity of specimens in collections is also a confounding factor in making a determination in the assignment of species.

Several years ago a revision of the tribe Trachyderini Dupont (1836) was begun by two prominent North American figures in cerambycid systematics, Dr. John A. Chemsak and Mr. Frank T. Hovore; however, both passed away prior to completion of their revision. This publication provides a regrouping of species within these genera based on the descriptions found in literature and materials available from the museums and private collections as listed in the Materials and Method Section of this paper.

*Callona* and *Crioprosopus* can be distinguished from other closely related genera by the following characteristics: (1) a large body form, which is either subcylindrical or broad and somewhat depressed; (2) the front of the head which is large, perpendicular, and abruptly separated from the anteocular space as described by Linsley (1962:100); (3) mandibles with apex acute; (4) prosternum with intercoxal process arcuate at apex; (4) broad

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