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Revision and Phylogeny of the Tribes Curiini LeConte and Plectromerini Nearn & Branham, New Tribe (Coleoptera: Cerambycidae: Cerambycinae)

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117 pages, 76 figures.....\$25



A revision and phylogenetic analysis of the tribe Curiini LeConte is presented. A phylogenetic analysis of Curiini employing 31 ingroup taxa, five outgroup taxa, and 39 morphological characters was conducted. Results of this analysis suggest that the tribe is polyphyletic with respect to the outgroup taxa chosen. The genus *Curius* Newman is monophyletic and strongly supported by five unambiguous synapomorphies. The genus *Plectromerus* Haldeman is monophyletic and results support inclusion of the monotypic genus *Curiosa Micheli* as a member of the genus *Plectromerus*. The clade *Plectromerus* + *Curiosa* is strongly supported by four unambiguous synapomorphies. Based on these results, the genus *Curiosa* is synonymized and the new combination *Plectromerus dominicanus* (Micheli) is proposed. To address the polyphyly of Curiini, the new tribe Plectromerini Nearn & Branham is proposed and the genus *Plectromerus* is designated as the type genus. The previous synonymy of the genus *Pentomacrus* White with *Plectromerus* is supported, as well as a previous transfer of *Plectromerus punctatus* (Fisher) to *Curius*.

Eight new species of *Plectromerus* are described and illustrated: *Plectromerus deza-yasi* from Nicaragua, *Plectromerus giesberti* from Guatemala, *Plectromerus hovorei* from Costa Rica and Honduras, *Plectromerus josephi* and *Plectromerus turnbowi* from the Dominican Republic, *Plectromerus micheli* from the Cayman Islands, *Plectromerus morrissi* from Panamá, and *Plectromerus thomasi* from Haiti. In addition, seven species are redescribed and illustrated: *Curius panamensis* Bates; *Plectromerus distinctus* (Cameron); *Plectromerus exis* Zayas; *Plectromerus fasciatus* (Gahan); *Plectromerus femoratus* (Fabricius); *Plectromerus pinicola* Zayas; and *Plectromerus serratus* (Cameron). The following new synonymies are proposed: *Plectromerus costatus* Cazier & Lacey = *Plectromerus dentipes* (Olivier); and *Plectromerus crenulatus* Cazier = *Plectromerus distinctus* (Cameron). Diagnoses of all known species of *Curius* and *Plectromerus* are presented with notes on distribution, diversity, and relationships. New country records are reported for *P. exis* (Jamaica); *P. fasciatus* (Montserrat); *Plectromerus pumilus* Cazier & Lacey (Cuba); and *Plectromerus wappesi* Giesbert (Honduras, Jamaica). Keys to the four species of *Curius* and 27 species of *Plectromerus* are presented. A biogeographic analysis based on the results of our phylogenetic analysis suggests that more basal species of *Curius* and *Plectromerus* are of Antillean distribution while more derived taxa are of Antillean, Central American, and South American distribution.

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