

Abstract

Longhorn Beetles — Cerambycidae are one of the most easily recognised groups of beetles, a family that worldwide encompasses over 33,000 species in 5,200 genera. With over 1,400 species classified in 300 genera, this is the sixth largest among 117 beetle families in Australia.

This volume provides a general introduction to the Australian Cerambycidae with sections on biology, phylogeny and morphology of adult and larvae, followed by the keys to the subfamilies and an overview of the 74 genera of the subfamily Lamiinae occurring in Australia. All Lamiinae genera are diagnosed, described and illustrated and an illustrated key to their identification is provided. A full listing of all included Australian species with synonymies and bibliographic citations is also included.

Three new genera are proposed: *Alice* gen. nov. for *Alice dekeyzeri* sp. nov.; *Annemabel* gen. nov. for *Zygocera elongata* Breuning, 1939, and *Carteridion* gen. nov. for *Carteridion wilsonensis* sp. nov. Three genera: *Australoleiopus* Breuning, 1970, *Temnolamia* Breuning, 1961 and *Tetroreopsis* Breuning, 1940 are treated as genera *incertae sedis*, and a further two, *Elongatocontoderus* Breuning, 1977 and *Pseudocalamobius* Kraatz, 1879, probably do not occur in the Australian fauna.

Seventy-five genera and 13 species (Appendix 1) are synonymised, and 165 new generic combinations are proposed for the Australian species (Appendix 2). Twelve replacement names are proposed for the junior secondary homonyms: *Microlamia viridis* Ślipiński & Escalona, for *Parapteridotelus norfolkensis* Breuning, 1962; *Rhytiphora callosa* Ślipiński & Escalona for *Menyllus maculicornis* Pascoe, 1864; *R. confusa* Ślipiński & Escalona for *Paradaxata spinosa* Breuning, 1938; *R. denisoniana* Ślipiński & Escalona for *Hathliodes moratus* Pascoe, 1866; *R. elongatissima* Ślipiński & Escalona for *Prosoplus elongata* Breuning, 1938; *R. molloiensis* Ślipiński & Escalona for *Prosoplus (Prosoplus) demarzi* Breuning, 1963; *R. pascoei* Ślipiński & Escalona for *Penthea (Melanopenthea) obscura* Breuning, 1961; *R. onychina* Ślipiński & Escalona for *Etaxalus marmoratus* Breuning, 1950a; *Sybra arnhemensis* Ślipiński & Escalona for *Mimosybra continentalis* Breuning, 1961; *S. gaindahensis* Ślipiński & Escalona for *Mimosybra uniformis* Breuning, 1940; *S. gressitti* Ślipiński & Escalona for *Sybra (Sybra) albovittata* Breuning, 1943 and *Temnosternus mosaicus* Ślipiński & Escalona for *Tuberothelais flavolineatus* Breuning, 1963.

Neissa inconspicua Pascoe, 1866 is here designated as the type species of *Neissa* Pascoe, 1866. *Sybra cinerascens* Breuning, 1948 was described from the Tapapatauai Island and has been wrongly recorded from Australia.