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Two new species of *Cyanopenthe* Nikitsky from Taiwan (Coleoptera, Tetratomidae, Penthinae)

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Abstract

Two new species of *Cyanopenthe* Nikitsky, 1998 are described from Taiwan, under the names of *Cyanopenthe taiwana* sp. nov. and *Cyanopenthe leei* sp. nov., representing the first documented occurrence of the genus in Taiwan. Descriptions of both species, including the first description of males of *Cyanopenthe*, are supplemented with photos of habitus, antennae and abdomens of females, and illustrations of pronotum, genitalia of both sexes and abdominal ventrite V of females. Additionally, for *Cyanopenthe metallica* (Champion, 1916), photos of habitus and antenna of the holotype, supplementary description and illustrations of genitalia and abdominal ventrite V of females are provided. A key for the identification of *Cyanopenthe* species is given.

Key words: Polypore fungus beetles, Tenebrionoidea, taxonomy, new species, key to species, Taiwan

Introduction

Penthinae Lacordaire is a distinctive component of Tetratomidae, all members of which are associated with dead wood and/or wood-rotting fungi (Lawrence & Leschen, 2010). Only two genera have been described in this subfamily: *Penthe* Newman and *Cyanopenthe* Nikitsky. The ten *Penthe* species are distributed in North America and eastern Asia, while the four species (including the two described herein) of *Cyanopenthe*, are Asian (Nikitsky, 2005).

Nikitsky (1998) proposed *Cyanopenthe* with *Penthe metallica* Champion, 1916 as the type species and a second species, *Cyanopenthe thailandica* Nikitsky, 1998. *Cyanopenthe* species are characterized by asymmetric, strongly broadened antennomeres VII–XI, all antennomeres dark, unicolorous, and a metallic lustrous body. The males of both original species remain unknown.

During the first author's field trip to Taipingshan, in the northeastern area of Taiwan, a pair of an unknown *Cyanopenthe* species was collected at a dead log, on which grew some fungi of Polyporaceae; additionally, another unknown species was discovered in the collection of the Taiwan Agricultural Research Institute, Wufeng, Taichung, Taiwan and the Natural History Museum, London, United Kingdom. After careful examination and comparison to previously described species, they were deemed new to science and are described herein.

Material and methods

Material examined in this paper is deposited in the following institutions: BMNH (Natural History Museum, London, United Kingdom); CCCC (Mr. Chang-Chin Chen's private collection, Tianjin, China); NMNS (National Museum of Natural Science, Taichung, Taiwan); TARI (Taiwan Agricultural Research Institute, Wufeng, Taichung, Taiwan).