

# Two New Species of The Ant Genus *Polyrhachis* F. Smith (Hymenoptera: Formicidae) From Guangxi, South of China

ZHOU Shanyi HUANG Jianhua

(Department of Biology, Guangxi Normal University, Guilin, Guangxi 541004, CN E-mail: syzhou@mailbox.gxnu.edu.cn)

**Abstract** Two new species of the ant genus *Polyrhachis* F. Smith, i.e. *P. zhengi* sp. nov. and *P. cornuhumera* sp. nov., collected from Guangxi, south of China, were described in this paper.

**Key words** Hymenoptera, Formicidae, *Polyrhachis*, new species

*Polyrhachis* F. Smith is a large genus in the family Formicidae. 477 species have been described in the world according to Dr. Bolton (1995). In China, Wang et al. (1991), Wu et al. (1995), Tang et al. (1995) studied the genus and treated 29 species, Xu (2001) described 2 species from Yunnan Province.

Guangxi is one of the regions in which the biodiversity are richest in China. Zhou et al. (1997), Zhou (2001) studied *Polyrhachis* and recorded 13 species. When we made a biodiversity survey on Shi Wan Da Shan Natural Conserve, 2 new species of the genus were found. The descriptions of them are as below.

Measurements and indices are as defined in Bolton (1975). Total length-TL, Head width-HW, Head Length-HL, Cephalic index-CI ( $=HW \times 100 / HL$ ), Scape length-SL, Scape index-SI ( $=SL \times 100 / HW$ ), Pronotal width-PW, Alitrunk length-AL. All the measurements are expressed in millimeters, the indices are percentages.

The type specimens are deposited in the Insect Collection, the Department of Biology, Guangxi Normal University, Guangxi Automatic Region, Guilin, China.

## ***Polyrhachis zhengi* sp. nov. (figs. 1~3)**

Holotype worker: TL 5.9, HW 1.25, HL 1.48, CI 84, SL 1.6, SI 128, PW 0.88, AL 2.0. Head nearly oval, broader posteriorly than in front. Occipital border convex. Eyes large, situated behind the midlength of the sides of the head. Clypeus convex, anterior border slightly advanced in the middle, without central carina. Mandible with 5 teeth. Dorsum of alitrunk strongly arched in profile view, pro-mesonotal suture and meso-propodeal suture vanished in dorsal view. Pronotal spines (humeral spines) of moderate long, pointing lateroanteriorly. Propodeal spines longer than pronotal spines, pointing lateroposteriorly. The two pairs of spines of the alitrunk