ACTA COLEOPTEROLOGICA	XXII.	1.	3 - 4	1.4.2006	ISSN 0178 - 7217

Description of a new *Coelostoma* from China (Coleoptera: Hydrophilidae, Sphaeridiinae)

by Franz Hebauer

ABSTRACT

A new species of the Hydrophilidae genus *Coelostoma* Brullé, 1835, *Coelostoma (Lachnocoelostoma) turnai* sp.n. from China (Hubei) is described and illustrated.

KEY WORDS

Insecta, Coleoptera, Hydrophilidae (Sphaeridiinae), *Coelostoma*, new species, China (Hubei).

INTRODUCTION

The Hydrophilidae genus *Coelostoma* Brullé, comprising at present 99 known species, is widely distributed in the eastern and southern hemisphere until Australia, mainly in the warmer climates (72 species in Africa), but absent in America, replaced there by the genus *Phaenonotum* Sharp. Only a few species occure in the palearctic region. Now the 100st species has been discovered in southeastern China by Jaroslav Turna.

Jia Fenglong (1996) in his thesis lists 9 species distributed in China, 3 of them are described as new in his thesis, which until now has not been published.

ABBREVIATIONS

CFH Coll. Franz Hebauer, Plattling, Germany,
CHH Coll. Hans Hebauer Rain-Dürnhart, Germany.

Coelostoma (Lachnocoelostoma) turnai sp.n.

DESCRIPTION

Holotypus (male; 4.5 mm x 2.5 mm): "China, E Hubei, 17.-18.VI.2003, Dabie Shan, 31.1N 115.8E, WUJIA SHAN forest park, Jaroslav Turna leg." (CFH).- Paratypes: 1 male (5.0 mm x 3.0 mm): same data as holotype (CHH).

Total length: 4.5 - 5.0 mm; total width: 2.5 - 3.0 mm.- Broadly oval, strongly convex.- Black, shining, mouthparts and tarsi yellow, femora, tibiae and underside dark ferrugineous.
Head finely and densely punctate, punctural distances about punctural diameter, shining, without recognizable microsculpture. Clypeo-frontal suture indicated. Eyes of moderate sizes, separated by c. 4 x eye width, hardly emarginated anteriorly. Antennae 9-segmented, club loose, c. 8 x as long as wide; scape c. 2 x as long as pedicel. Mentum rectangular, 1.25 x as wide as long, deeply and widely impressed anteromedially, coarsely punctate laterally, finely reticulate between punctures. Gula well developed. Pronotum rather transverse, 3 x as wide (basally) as long (medially) seen from above, strongly narrowed anteriorly, sides slightly curved, punctate as head, punctation forming normal round punctures, interstices finely reticulate. Elytra widest between shoulders, broadly rounded apically, apex simply sloping, 1.25 x as long as their combined width, punctate as head and pronotum, punctation becoming stronger and more irregular laterad, with impressed sutural stria in posterior third. Prosternum normally developed, not carinate, with fine dentiform process anteromedially. Mesosternal elevation broad, arrowhead shaped. Mesofemora with evident hydrofuge pubescence. Metafemora normally flattened, not triangularly enlarged at hind margin. First ventrite with recognizable median carina. The 5th ventrite without apical emargination. First segment of hind tarsi almost twice as long as 2nd segment. Aedeagus characteristic; median lobe bottle-shaped with apex deeply excavated (bilobed), corona situated basally, parameres slightly concave on outer face subapically, apices almost transverse (Fig. 1).

DISCUSSION

As in most *Coelostoma* the exclusive examination of the surface remains without result. The underside enables at least to attach the species to one of the subgenera. The Chinese species of the subgenus *Lachnocoelostoma*, characterized by the pubescence of mesofemora and by the carinate 1st ventrite, are currently *C. phallicum* ORCHYMONT, *C. vagum* PU and C. wui PU, each almost identic with *C. turnai* sp.n. in size, shape and sculpture. Thus a separation from these three species is only possible with certainty in the male.

DISTRIBUTION

Known only from the type locality.

ETYMOLOGY

This unexpected species is dedicated to its finder Jaroslav Turna.

REFERENCES

HANSEN, M. 1991: The Hydrophiloid Beetles. Phylogeny, Classification and a Revision of the Genera (Coleoptera, Hydrophiloidea).- Biologiske Skrifter. Det Kongelige Danske Videnskabernes Selskab, 40: 1- 368.

JIA FENGLONG (1996, unpublished): The Hydrophiloid Beetles in China.- Thesis, 249 pp.

AUTHOR'S ADDRESS

Dr. habil. Franz Hebauer, Johann-Krümpel-Straße 1, D-94447 Plattling, Germany

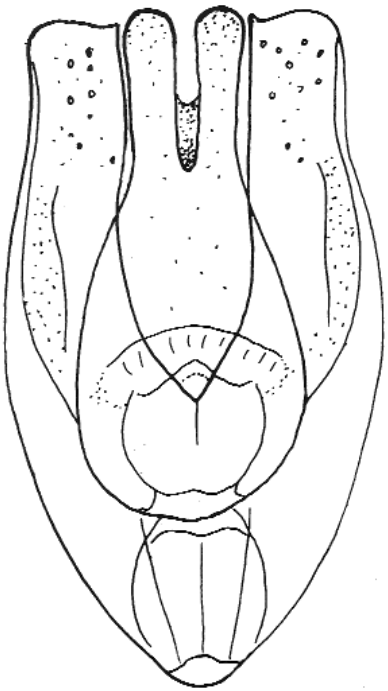

Fig. 1: *Coelostoma turnai* sp.n., aedeagus.