



# ZOOTAXA

3812

***Zwicknia* gen. n., a new genus for the *Capnia bifrons* species group,  
with descriptions of three new species based on morphology, drumming  
signals and molecular genetics, and a synopsis of the West Palaearctic and  
Nearctic genera of Capniidae (Plecoptera)**

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Magnolia Press  
Auckland, New Zealand

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(*Zootaxa* 3812)

82 pp.; 30 cm.

6 Jun. 2014

ISBN 978-1-77557-411-8 (paperback)

ISBN 978-1-77557-412-5 (Online edition)

FIRST PUBLISHED IN 2014 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

e-mail: [zootaxa@mapress.com](mailto:zootaxa@mapress.com)

<http://www.mapress.com/zootaxa/>

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ISSN 1175-5326 (Print edition)

ISSN 1175-5334 (Online edition)

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## Abstract

*Zwicknia* Murányi, **gen. n.** is erected for the *Capnia bifrons* species group sensu Zhiltzova, 2001 with the description of three new species based on morphology, mating call, and the mitochondrial DNA marker cytochrome c oxidase I: *Z. acuta* Murányi & Orci, **sp. n.**, *Z. kovacsi* Murányi & Gamboa, **sp. n.** and *Z. ruppreehti* Murányi, Orci & Gamboa, **sp. n.** *Zwicknia bifrons* (Newman, 1838) **comb. n.** is selected as the type species and redescribed. The other three species placed into *Zwicknia*, **gen. n.**, *Z. sevanica* (Zhiltzova, 1964) **comb. n.**, *Z. tuberculata* (Zhiltzova, 1964) **comb. n.**, and *Z. turkestanica* (Kimmins, 1950) **comb. n.** are redescribed based only on morphological characters. Comparative morphological studies and newly discovered characters of the genitalia has allowed for the first time a synopsis of the adults of the West Palaearctic and Nearctic genera of Capniidae. *Arsapnia* Banks, 1897 (type species: *A. decepta* Banks, 1897 **comb. rev.**) is removed from synonymy with *Capnia* Pictet, 1841 with new combinations, *Arsapnia arapahoe* (Nelson & Kondratieff, 1988) **comb. n.**, *A. coyote* (Nelson & Baumann, 1987) **comb. n.**, *A. pileata* (Jewett, 1966) **comb. n.**, *A. sequoia* (Nelson & Baumann, 1987) **comb. n.**, *A. teresa* (Claassen, 1924) **comb. n.**, *A. tumida* (Claassen, 1924) **comb. n.**, and *A. utahensis* (Gaufin & Jewett, 1962) **comb. n.** A new sensu stricto diagnosis of *Capnia* is proposed with comments on the taxa retained in *Capnia* sensu lato.

**Key words:** Capniidae, *Zwicknia* **gen. n.**, *Arsapnia*, *Capnia* s.s., new species, new combinations, synopsis, morphology, mating calls, molecular phylogeny

## Acknowledgements

We are very grateful to Drs. Richard W. Baumann (Provo, Utah, U.S.A.), Louis Boumans (Oslo, Norway), Wolfram Graf (Wien, Austria), Mr. Tibor Kovács (Gyöngyös, Hungary), Drs. Boris C. Kondratieff (Fort Collins, Colorado, U.S.A.), Weihai Li (Xinxiang, Henan, China), C. Riley Nelson (Provo, Utah, U.S.A.), John B. Sandberg (Chico, California, U.S.A.), Valentina A. Teslenko (Vladivostok, Russia), Tierno de Figueroa (Granada, Spain), Gilles Vinçon (Grenoble, France) and Peter Zwick (Schlitz, Germany) for their advice and help during the study. Furthermore, Drs. Wolfram Graf and Gilles Vinçon kindly studied and kindly allowed us to include the data of their material, while Dr. Peter Zwick borrowed us many specimens. We thank Drs. Krisztina Buczkó (Budapest, Hungary), Shawn M. Clark (Provo, Utah, U.S.A.), Susanne Randolph (Wien, Austria) and Michael Standing (Provo, Utah, U.S.A.) for their technical help and we are grateful to Mrs. Tibor Kovács (Gyöngyös, Hungary), Gábor Magos (Mátrafüred, Hungary) and Gellért Puskás (Budapest, Hungary) for taking part in the recent field work.

The senior author's work was supported with a five months fellowship to the BYUC by the Fulbright Scholar Program (Project title: 'Comparative Taxonomical Studies on Three Holarctic Stonefly (Plecoptera) Genera'). Visit to the WNHM received support from the SYNTHESYS Project, FP7 "Capacities" Program (AT-TAF-2660). The bioacoustic research in this study was supported partly by the Hungarian Scientific Research Fund (OTKA K 81929), while field work by OTKA K 100369. Molecular research was supported by German Academic Exchange Service (DAAD) fellowship (A/09/94531). We are also thankful for the use of the facilities of Dr. Michael Monaghan's laboratory of Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB).

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