

# ZOOSYMPOSIA

3

## **Crane flies—history, taxonomy and ecology**

(Diptera: Tipulidae, Limoniidae, Pediciidae, Trichoceridae, Ptychopteridae, Tanyderidae)

**Dedicated to the memories of outstanding entomologists**

**Dr. Charles Paul Alexander (1889–1981),**

**Dr. Bernhard Mannheims (1909–1971) and**

**Dr. Evgeniy Nikolaevich Savchenko (1909–1994)**

VLADIMIR LANTSOV (Editor)

Editorial Board of Volume 3

FENJA BRODO, PJOTR OOSTERBROEK, ANDREY PRZHIBORO & JAROSLAV STARÝ



Magnolia Press  
Auckland, New Zealand

VLADIMIR LANTSOV (Editor)

**Crane flies—history, taxonomy and ecology (Diptera: Tipulidae, Limoniidae, Pediciidae, Trichoceridae, Ptychopteridae, Tanyderidae): Dedicated to the memories of outstanding entomologists Dr. Charles Paul Alexander (1889–1981), Dr. Bernhard Mannheims (1909–1971) and Dr. Evgeniy Nikolaevich Savchenko (1909–1994)**

(*Zoosymposia* 3)

321 pp.; 23 cm (hardback edition); 30 cm (online edition)

22 December 2009

ISBN 978-1-86977-431-8 (hardback)

ISBN 978-1-86977-432-5 (online edition)

Editorial Board of Volume 3

FENJA BRODO, PIOTR OOSTERBROEK, ANDREY PRZHIBORO & JAROSLAV STARÝ

FIRST PUBLISHED IN 2009 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

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

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

© 2009 Magnolia Press

All rights reserved.

No part of this publication may be reproduced, stored, transmitted or disseminated, in any form, or by any means, without prior written permission from the publisher, to whom all requests to reproduce copyright material should be directed in writing.

This authorization does not extend to any other kind of copying, by any means, in any form, and for any purpose other than private research use.

Series editor, ZHI-QIANG ZHANG

ISSN 1178-9905 (Print edition)

ISSN 1178-9913 (Online edition)

Cover photos:

Spine: *Tipula* (*Tipula*) *paludosa* Meigen, 1830. Male, 3.X.2005, Yerseke Moer, Zeeland, the Netherlands (photo by Chiel Jacobusse, reproduced with permission).

Backcover (upper left): *Dicranota* (*Paradicranota*) *parviuncinata* Savchenko, 1983. Male, 18.VII. 2009. The Central Caucasus, Bashil valley (2230 m), Russia. (photo by Vladimir Lantsov)

Backcover (lower left): *Nephrotoma pratensis pratensis* (Linnaeus, 1758). Male, 17. V. 2009. The North Caucasus, Pyatigorsk (400 m), Russia. (photo by Vladimir Lantsov)

Backcover (upper right): *Dicranomyia* (*Dicranomyia*) *circassica* Lackschewitz, 1941. Male and ovipositing female, 21.IX.2005. The Central Caucasus, Dumala valley (1640 m.), Russia. (photo by Vladimir Lantsov)

Backcover (lower right): *Polymera magnifica* Meunier, 1906. Baltic amber (about 40 million years ago), Vilnius University, Lithuania (photo by Sigitas Podenas, reproduced with permission).



**Crane flies—history, taxonomy and ecology (Diptera: Tipulidae, Limoniidae, Pediciidae, Trichoceridae, Ptychopteridae, Tanyderidae):  
Memorial volume dedicated to Dr. Charles Paul Alexander (1889–1981),  
Dr. Bernhard Mannheims (1909–1971) and Dr. Evgeniy Nikolaevich Savchenko (1909–1994)**

**Table of contents**

- 5 **Crane flies and their researchers (as a preface)**  
VLADIMIR I. LANTSOV
- 9 **On the 11,755 insect taxa named by Charles P. Alexander**  
PIOTR OOSTERBROEK
- 17 **Evgeniy Nikolaevich Savchenko and his contribution to the knowledge of Palaearctic Tipuloidea**  
VLADIMIR I. LANTSOV
- 53 **Bernhard Mannheims, a memorial on the occasion of the 100th anniversary of his birth, with bibliography and list of taxa**  
HERBERT REUSCH & PIOTR OOSTERBROEK
- 65 ***Tipula (Yamatotipula) aleutica* Alexander (Diptera: Tipulidae), a reclassification**  
FENJA BRODO
- 73 **A rare *Tipula* rediscovered**  
GEORGE BYERS
- 77 **Thoracic spiracular gill structure of *Lipsothrix* (Diptera: Limoniidae) in Britain described from scanning electron micrographs**  
GEOFFREY E. HANCOCK, STEPHEN M. HEWITT, ANDREW GODFREY & MARGARET MULLIN
- 89 **Description of the immature stages of *Discobola annulata* (Linnaeus, 1758) and *D. margarita* Alexander, 1924 (Diptera: Limoniidae) with notes in their biology**  
MARINA G. KRIVOSHEINA
- 99 **Confirmation of *Ula succincta* Alexander, 1933 (Diptera: Pediciidae) for Russia**  
NINA P. KRIVOSHEINA
- 103 **The Late Jurassic fossil from Asian ancestry to a recent genus, *Nothotrichocera* Alexander 1926 (Diptera: Trichoceridae)**  
EWA KRZEMINSKA & ELENA LUKASHEVICH
- 111 **New records for Limoniidae and Pediciidae (Diptera) from the Caucasus, Russia**  
VLADIMIR I. LANTSOV

- 115 **The ecology, biology and larval instars of the North Caucasian population (Lake Maliy Tambukan) of *Tipula subcunctans* Alexander, 1921 (Diptera: Tipulidae)**  
VLADIMIR I. LANTSOV
- 131 **Limoniidae (Diptera) in the Upper Jurassic of Shar Teg, Mongolia**  
ELENA D. LUKASHEVICH
- 155 **New Jurassic Tanyderidae (Diptera) from Asia with first find of larvae**  
ELENA D. LUKASHEVICH & WIESŁAW KRZEMINSKI
- 173 **New replacement names in craneflies (Diptera: Limoniidae: Tipulidae)**  
PJOTR OOSTERBROEK
- 179 **New distributional records for Palaearctic Limoniidae and Tipulidae (Diptera: Craneflies), mainly from the collection of the Zoological Museum, Amsterdam**  
PJOTR OOSTERBROEK
- 199 **A new species of *Pedicia* s.str. (Diptera: Pediciidae) from the North Caucasus, Russia**  
NIKOLAY M. PARAMONOV
- 203 **A check list of craneflies (Diptera: Tipulidae) of the Central European territory of Russia**  
VALENTIN E. PILIPENKO
- 221 **A Distribution of *Hexatoma (Eriocera) ussuriensis* Alexander (Diptera: Limoniidae)**  
ANDREY A. PRZHIBORO, NIKOLAY M. PARAMONOV & NATALIA V. BAZOVA
- 229 **Two new records of Tipuloidea (Diptera) from a cold spring in NW Russia**  
ANDREY A. PRZHIBORO
- 235 **The rediscovery of *Lecteria calopus* (Walker, 1856) in the Brazilian Atlantic Rain Forest (Diptera: Limoniidae)**  
GUILHERME CUNHA RIBEIRO & VLADIMIR BLAGODEROV
- 245 **The subgenus *Tipula (Pterelachisus)* in Finland (Diptera: Tipulidae)—species and biogeographic analysis**  
JUKKA SALMELA
- 263 **The *Trichocera (Trichocera) rectistylus* species group: females and a new species (Diptera: Trichoceridae)**  
JAROSLAV STARÝ
- 273 **Taxonomic study of the family Ptychopteridae of Japan (Diptera)**  
TAKEYUKI NAKAMURA & TOYOHEI SAIGUSA
- 305 ***Tipula (Lunatipula) bernhardi*, a new tipulid species from Turkey (Diptera: Tipulidae)**  
GUNTHER THEISCHINGER
- 309 **New species and immatures of crane flies of subgenus *Formotipula* Matsumura from Taiwan (Diptera: Tipulidae: *Tipula*)**  
CHEN W. YOUNG