

**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**
PJOTR 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 & PJOTR 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