

## CONTENTS

### REVIEW

- Survival strategies of chironomids (Diptera: Chironomidae) living in temporary habitats: a review — J. FROUZ, J. MATĚNA & A. ALI ..... 459

### ARTICLES

- Isolation of angiotensin converting enzyme from testes of *Locusta migratoria* (Orthoptera) — N. MACOURS, A. VANDINGENEN, C. GIELENS, K. HENS, G. BAGGERMAN, L. SCHOOPS & R. HUYBRECHTS ..... 467  
The dragonfly *Libellula quadrimaculata* (Odonata: Libellulidae) makes optimal use of the dorsal fovea of the compound eyes during perching — M. SAUSENG, M.-A. PABST & K. KRAL ..... 475  
Effects of low temperature on the condition of flight muscles and flight propensity in a water strider, *Aquarius paludum* (Heteroptera: Gerridae) — T. HARADA, S. INOUE & M. WATANABE ..... 481  
Sexual size and development time dimorphism in a parasitoid wasp: an exception to the rule? — J.A. HARVEY & M.R. STRAND ..... 485  
Aggregation and survival of *Neophilaenus albipennis* (Hemiptera: Cercopidae) spittlebug nymphs — R. BIEDERMANN ..... 493  
*Aphis gossypii* (Hemiptera: Aphididae) as a factor inhibiting the survival and population increase of the predator *Macrolophus pygmaeus* (Hemiptera: Miridae) on cucumber — D.C. PERDIKIS & D.P. LYKOURESSIS ..... 501  
Temperature and development of central European species of *Amara* (Coleoptera: Carabidae) — P. SASKA & A. HONĚK ..... 509  
Influence of barometric pressure on odor discrimination and oviposition by adult plum curculios (Coleoptera: Curculionidae) — T.C. LESKEY & R.J. PROKOPY ..... 517  
Effects of different atmospheric CO<sub>2</sub> concentrations and soil moistures on the populations of bird cherry-oat aphid (*Rhopalosiphum padi*) feeding on spring wheat — J. ZHANG, G.-M. XING, J.-X. LIAO, Z.-D. HOU, G.-X. WANG & Y.-F. WANG ..... 521  
Ground beetles (Carabidae) as seed predators — A. HONEK, Z. MARTINKOVA & V. JAROSIK ..... 531  
Ant communities (Hymenoptera: Formicidae) of Flemish (north Belgium) wet heathlands, a declining habitat in Europe — D. MAES, H. VAN DYCK, W. VANREUSEL & J. CORTENS ..... 545  
Stability and change over 67 years – the community of Heteroptera as caught in a light-trap at Rothamsted, UK — T.R.E. SOUTHWOOD, P.A. HENDERSON & I.P. WOIWOD ..... 557  
Mouthparts, gut contents, and retreat-construction by the wood-dwelling larvae of *Lype phaeopa* (Trichoptera: Psychomyiidae) — B. SPÄNHOFF, U. SCHULTE, C. ALECKE, N. KASCHEK & E.I. MEYER ..... 563  
Pedicellar structures in Reduviidae (Heteroptera) - comments on cave organ and trichobothria — C. WEIRAUCH ..... 571  
The Permostridulidae fam. n. (Panorthoptera), a new enigmatic insect family from the Upper Permian of France — O. BÉTHOUX, A. NEL, J. LAPEYRIE & G. GAND ..... 581  
Revision of European species of the genus *Rhabdomastix* (Diptera: Limoniidae). Part 1: Introduction and subgenus *Lurdia* subgen. n. — J. STARÝ ..... 587  
A taxonomic review of Japanese *Asteia* (Diptera: Acalyptrata: Asteiidae) — M. SUEYOSHI ..... 609

### NOTES

- The Red Admiral butterfly (*Vanessa atalanta*, Lepidoptera: Nymphalidae) is a true seasonal migrant: an evolutionary puzzle resolved? — K. MIKKOLA ..... 625  
*Phalacrotophora beuki* (Diptera: Phoridae), a parasitoid of ladybird pupae (Coleoptera: Coccinellidae) — E. DURSKA, P. CERYNGIER & R.H.L. DISNEY ..... 627  
Narrow flower specialization in two European bee species of the genus *Colletes* (Hymenoptera: Apoidea: Colletidae) — A. MÜLLER & M. KUHLMANN ..... 631

- Book reviews ..... 480, 500, 556, 585  
List of referees 2003 ..... 637  
Contents of Volume 100 ..... 639