

HUG THE BUG

FOR LOVE OF TRUE BUGS

FESTSCHRIFT ZUM 70. GEBURTSTAG VON ERNST HEISS

Wissenschaftliche Redaktion: W. RABITSCH

Impressum

Katalog / Publication:	Kataloge der Oberösterreichischen Landesmuseen N. S. 50 Denisia 19 ISSN 1608-8700 Zugleich Kataloge der Oberösterreichischen Landesmuseen, N.S. 50 ISBN-10: 3-85474-161-8/ ISBN-13: 978-3-85474-161-9
Erscheinungsdatum / Date of delivery:	12. Oktober 2006
Medieninhaber und Herausgeber / Copyright:	Land Oberösterreich, Biologiezentrum der Oberösterreichische Landesmuseen, J.-W.-Klein-Str. 73, 4040 Linz, Austria
Url:	http://www.biologiezentrum.at
E-Mail:	bio-linz@landesmuseum.at
Wissenschaftliche Redaktion / Scientific editor:	Dr. Wolfgang Rabitsch
Redaktionelle Betreuung / Editorial assistance:	Fritz Gusenleitner
Layout, Druckorganisation /	
Layout, printing organisation:	Eva Rührnößl
Umschlag-, Plakatgestaltung / Cover, placard:	Eva Rührnößl
Druck / Printing:	Plöchl-Druck, Werndlstraße 2, 4240 Freistadt, Austria
Bestellung / Ordering:	http://www.biologiezentrum.at/biowww/de/biblio/index.html oder / or bio.buch@landesmuseum.at
	Das Werk einschließlich aller seiner Teile ist urheberrechtlich geschützt. Jede Verwertung außerhalb der engen Grenzen des Urheberrechtsgesetzes ist ohne Zustimmung des Medieninhabers unzulässig und strafbar. Das gilt insbesondere für Vervielfältigungen, Übersetzungen, Mikroverfilmungen sowie die Einspeicherung und Verarbeitung in elektronischen Systemen. Für den Inhalt der Abhandlungen sind die Verfasser verantwortlich.
	Schriftentausch erwünscht!
	All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without prior permission from the publisher.
	We are interested on an exchange of publications.
Umschlagfoto / Cover:	Feuerwanze / Firebug <i>Pyrrhocoris apterus</i> (LINNAEUS 1758). Photo: W. Rabitsch, Layout: E. Rührnößl.
Zitievorschlag für das Buch / The complete book may be referenced as follows:	RABITSCH W. (Ed. 2006): Hug the bug – For love of true bugs. Festschrift zum 70. Geburtstag von Ernst Heiss. — Denisia 19 : 1184 pp.
Zitievorschlag für Einzelarbeiten / Single contributions may be referenced as follows:	CASSIS G. & L. VANAGS (2006): Jewel Bugs of Australia (Insecta, Heteroptera, Scutelleridae). — In: RABITSCH W. (Ed.): Hug the bug – For love of true bugs. Festschrift zum 70. Geburtstag von Ernst Heiss. — Denisia 19 : 275-398.
Ausstellung / Exhibition:	Wanzen – Auf der Mauer, auf der Lauer...
Ort / Address:	Biologiezentrum der Oberösterreichischen Landesmuseen, J.-W.-Klein-Str. 73, 4040 Linz, Austria
Zeitraum / Period:	13. Oktober 2006 bis 18. März 2007
Konzept, Organisation und Gestaltung / Concept, organization, design:	Mag. Stephan Weigl, Dr. Wolfgang Rabitsch, Johannes Rauch
Ausstellungstechnik, Mitarbeit / Exhibition techniques, collaboration:	Jürgen Plass, Roland Rupp, Josef Schöbinger, Bruno Tumfart, Erwin Kapl, Josef Schmidt, Roland Zarre
Museumspädagogik / Museum education:	Mag. Sandra Kotschwar
Leihgeber / Lenders:	Dr. Gerry Cassis, Australian Museum Sydney; Dr. Jürgen Deckert, Museum für Naturkunde Berlin; Dr. Ernst Heiss, Innsbruck; Dr. Hans-Jürgen Hoffmann, Köln; Dr. Wolfgang Rabitsch, Wien; Dr. Klaus Reinhardt, Sheffield; Dr. Robert Smith, Tucson; Herbert Tiepelt, Immenstaad; Dr. Ekkehard Wachmann, Berlin; Dr. Christiane Weihrauch, New York; DI Heinz Wiesbauer, Wien; Dr. Herbert Zettel, Naturhistorisches Museum Wien.

Inhalt / Contents

Vorwort / Preface

von/by W. RABITSCH

8

Biographisches / Biographical

Mein Leben an der Seite eines Heteropterologen oder: Wie ich lernte die Wanzen zu lieben!

von I. HEISS

11-14

Ernst Heiss 70 Jahre / Ernst Heiss: 70th anniversary

von/by W. SCHEDL

15-21

Ernst Heiss – Bibliographie, Liste der beschriebenen und dedizierten Taxa

von W. RABITSCH

23-40

Geschichte und Bibliographie der Wanzenkunde in Österreich

von W. RABITSCH

41-94

Ernstes und Kuriöses über Wanzen – ein heteropterologisches Panoptikum

von H.-J. HOFFMANN

95-136

Rindenwanzen / Flat Bugs (Aradidae)

Dorsal abdominal glands in *Aradus betulae* (Heteroptera, Aradidae)

by J. DAVIDOVÁ-VILÍMOVÁ

137-148

An atypical micropterous new genus and species of Calisiinae with a short scutellum and notes
on the biology of the subfamily (Heteroptera, Aradidae)

by D.H. JACOBS

149-157

Three sibling chromosomal subspecies of *Dundocoris nodulicarinus* nov.sp. (Heteroptera, Aradidae, Carventinae)
with notes on the applicability of some species concepts on sibling taxa with different chromosome numbers

by D.H. JACOBS

159-180

An overview of flat bug genera (Hemiptera, Aradidae) from New Zealand,
with considerations on faunal diversification and affinities

by M.-C. LARIVIÈRE & A. LAROCHELLE

181-214

The Genital capsule of some Aradidae (Hemiptera, Heteroptera)

by C.W. SCHAEFER

215-224

Justification for the Aradimorpha as an infraorder of the suborder Heteroptera
(Hemiptera, Proorrhyncha) with Special Reference to the Pregenital Abdominal Structure

by M.H. SWEET

225-248

Taxonomie / Taxonomy

A review of the Mexican species of *Acanthocephala* LAPORTE, with description of one new species
(Heteroptera, Coreidae, Coreinae, Acanthocephalini)

by H. BRAILOVSKY

249-268

Two new species of Lygaeidae from the Middle East: *Geocoris (Geocoris) ernstheissi* nov.sp. and
Dieuches osellai nov.sp. (Heteroptera, Lygaeidae)

by A. CARAPEZZA

269-274

Jewel Bugs of Australia (Insecta, Heteroptera, Scutelleridae)	
by G. CASSIS & L. VANAGS	<u>275-398</u>
A new species of lacebug from Afghanistan, <i>Tingis (Neolasiotropis) heissi</i> nov.sp. (Heteroptera, Tingidae)	
by V. GOLUB	<u>399-400</u>
A revision of the genus <i>Peritropis</i> UHLER 1891 from the Oriental Region (Hemiptera, Miridae, Cylapinae)	
by J. GORCZYCA	<u>401-422</u>
Description of five new species of <i>Chinavia</i> ORIAN (Hemiptera, Pentatomidae, Pentatominae) from western and northwestern South America	
by J. GRAZIA, C.F. SCHWERTNER & A. FERRARI	<u>423-434</u>
Review of the genus <i>Pseudovelia</i> (Heteroptera, Veliidae) on the Philippines: Part II: Greater Luzon	
by C. HECHER	<u>435-456</u>
The assassin bug genus <i>Emesopsis</i> (Heteroptera, Reduviidae, Emesinae) in Thailand	
by T. ISHIKAWA & S. OKAJIMA	<u>457-474</u>
A new species of <i>Oncocephalus</i> (Heteroptera, Reduviidae, Stenopodainae) from Japan	
by T. ISHIKAWA, W. CAI & M. TOMOKUNI	<u>475-481</u>
New genera and species of Drymini (Heteroptera, Rhyparochromidae) feeding on <i>Ficus</i> in Brunei	
by E. KONDOROSY	<u>483-492</u>
Two new species of Phylini (Heteroptera, Miridae, Phylinae) from Middle Asia and Caucasus with notes on <i>Compsidolon pumilum</i> (JAKOVLEV 1876)	
by F. V. KONSTANTINOV	<u>493-502</u>
A new species of lacebug from Yemen, <i>Dictyla heissi</i> nov.sp. (Heteroptera, Tingidae)	
by R.E. LINNAURO & J. PÉRICART	<u>503-504</u>
<i>Heissoteus ernsti</i> nov.gen. et nov.sp. (Heteroptera, Cydnidae) from Zambia	
by J.A. LIS	<u>505-507</u>
<i>Gonycentrum heissi</i> nov.sp. (Hemiptera, Heteroptera, Tingidae) from Madagascar	
by B. LIS	<u>509-512</u>
A new species from the Near East for the genus <i>Ochetostethus</i> FIEBER 1860 (Heteroptera, Cydnidae)	
by Ph. MAGNIEN	<u>513-516</u>
A new <i>Cyllecoris</i> from Crete with a tube-like structure associated with female genitalia (Heteroptera, Miridae, Orthotylinae, Orthotylini)	
by A. MATOCQ & D. PLUOT-SIGWALT	<u>517-522</u>
Two new genera and a new subfamily of Micronectidae (Heteroptera, Nepomorpha) from Brazil	
by N. NIESER & P.-P. CHEN	<u>523-534</u>
A New Species of <i>Bubaces</i> DISTANT (Heteroptera, Rhyparochromidae, Rhyparochrominae)	
by J.E. O'DONNELL	<u>535-538</u>
On the Re-erection of the Tribe Stenoscelideini SCHAEFER (Heteroptera, Coreidae, Coreinae)	
by R.J. PACKAUSKAS	<u>539-542</u>

Hind wings of selected water boatmen (Heteroptera, Corixidae, Cymatinae, Corixinae) from Central Europe by J. PETR & M. PAPÁČEK	543-556
On some particular sclerotized structures associated with the vulvar area and the vestibulum in Orthotylinae and Phylinae (Heteroptera, Miridae) by D. PLUOT-SIGWALT & A. MATOCQ	557-570
New microphysids (Heteroptera, Cimicomorpha, Microphysidae) of the Baltic Eocene amber from the collection of Ernst Heiss by Y.A. POPOV	571-579
Two new ambush bugs from Yunnan, southern China (Insecta, Heteroptera, Reduviidae, Phymatinae) by W. RABITSCH, J. CUI & W. CAI	581-588
Two new species of <i>Dicyphus</i> FIEBER 1858 from the Iberian Peninsula and Canary Islands with additional data about the <i>D. globulifer</i> -group of the subgenus <i>Brachyceroea</i> FIEBER 1858 (Hemiptera, Heteroptera, Miridae, Bryocorinae) by J. RIBES & M. BAENA	589-598
Review of the genus <i>Madates</i> STRAND with the description of three new species (Heteroptera, Pentatomidae) by D.A. RIDER	599-610
Zur Synonymie westpaläarktischer Miriden (Heteroptera) von Ch. RIEGER	611-616
Contribution to the study of the female genitalia of twelve <i>Fulvius</i> species (Heteroptera, Miridae, Cylapinae) by I. SADOWSKA-WODA, F. CHÉROT & J. GORCZYCA	617-636
<i>Heissophila macrotheleae</i> , a new genus and new species of Plokiophilidae from Thailand (Hemiptera, Heteroptera), with comments on the family diagnosis by R.T. SCHUH	637-645
A new genus and three new species of Lygaeoidea from New Guinea (Heteroptera, Lygaeoidea) by J. SLATER & H. BRAILOVSKY	647-652
New Taxa of Pyrrhocoroidea (Heteroptera) from the Oriental Region in the Natural History Museum in London by J.L. STEHLÍK	653-680
Description of a new genus with larviform females from Mauritius (Heteroptera, Enicocephalidae), with discussion of thoracic and abdominal morphology by P. ŠTYS & P. BAŇAŘ	681-695
A new species of <i>Micronecta</i> KIRKALDY (Heteroptera, Corixidae) from Fiji with notes on Australasian congeners by P.P. TINERELLA	697-702
Type specimens of Saldidae (Heteroptera) in the collection of the Zoological Institute of the Russian Academy of Sciences, St. Petersburg by N.N. VINOKUROV	703-705
Das bisher unbekannte Männchen von <i>Ploaria djurdjurana</i> DISPONS 1951 (Hemiptera, Heteroptera, Reduviidae, Emesinae) von K. VOIGT	707-709
The Central European Hallodapini: Studies of the female genitalia (Heteroptera, Phylinae, Miridae) by D. WYNIGER	711-720

Second report on the Japanese cylapine plant bugs (Heteroptera, Miridae, Cylapinae), with descriptions of five new species by T. YASUNAGA & S. MIYAMOTO	721-735
<i>Rhagovelia heissi</i> nov.sp., a remarkable new species of the <i>R. orientalis</i> species group (Heteroptera, Veliidae) from Cebu Island, Philippines by H. ZETTEL & J.P. BONGO	737-742
On the knowledge of marine Heteroptera in the Philippines: two new subgenera and four new species of <i>Haloveloides</i> ANDERSEN 1992 (Veliidae, Halovelinae) by H. ZETTEL	743-754
Biogeographie / Biogeography	
A Checklist of the Heteroptera of the Canary Islands (Insecta) by B. AUKEMA, J.P. DUFFELS & M. BÁEZ	755-774
Records of aquatic bugs (Heteroptera, Gerromorpha, Nepomorpha) mainly from Northeast Thailand, with descriptions of four new species by P.-P. CHEN, N. NIESER & N. SANGPRADUB	775-794
The Ambush Bugs of China: Taxonomic Knowledge and Distribution Patterns (Heteroptera, Reduviidae, Phymatinae) by J. CUI, W. CAI & W. RABITSCH	795-812
Systematics, Historical Biogeography and Ecological Phylogenetics in a clade of water striders by J. DAMGAARD	813-822
Lace bugs of Namibia (Heteroptera, Tingidae, Tingidae) by J. DECKERT & U. GÖLLNER-SCHEIDING	823-856
Naturschutzfachliche Analyse der Wanzenfauna (Insecta, Heteroptera) unterschiedlicher Almflächen im Nationalpark Gesäuse (Österreich, Steiermark) von T. FRIEB	857-873
<i>Micracanthia fennica</i> (REUTER 1848) (Heteroptera, Saldidae), ein Eiszeitrelikt in Mitteleuropa von H. GÜNTHER & G. STRAUB	875-878
Endemism among the Heteroptera on the Balkan Peninsula von M. JOSIFOV & N. SIMOV	879-898
Nabidae (Heteroptera) aus Indien (Sikkim), Nepal und Bhutan, gesammelt von Ernst Heiss im Jahre 1999 von I.M. KERZHNER	899-902
On the distribution and ecology of <i>Alloeonotus egregius</i> FIEBER 1864 and <i>A. fulvipes</i> (SCOPOLI 1763) (Heteroptera, Miridae) by P. KMENT, P. KAPITOLA & K. HRADIL	903-918
Checklist of the Chinese Plataspidae (Heteroptera, Pentatomoidae) by G.-Q. LIU & L.-Y. ZHENG	919-926
The marine Heteroptera of Far Eastern New Guinea and adjacent Archipelagoes (Insecta, Gerromorpha) by J.T. POLHEMUS & D.A. POLHEMUS	927-982
<i>Dybowskyia reticulata</i> (DALLAS 1851) (Heteroptera, Pentatomidae, Podopinae) in Finnland von S. RIETSCHEL	983-986

Bestimmungsmerkmale der *Coranus*-Arten (Heteroptera, Reduviidae) Europas und
der Kanarischen Inseln mit einem Neunachweis für Deutschland

von G. STRAUB & H. GÜNTHER

987-995

Palearctic Plant Bugs (Hemiptera, Miridae) in Newfoundland, Canada: First North American Records for
Phytocoris longipennis FLOR and *Pilophorus cinnamopterus* (KIRSCHBAUM), New Records of Eight Other Species,
and Review of Previously Reported Species

by A.G. WHEELER Jr., T.J. HENRY & E.R. HOEBEKE

997-1014

Biologie / Biology

Bug pheromones (Hemiptera: Heteroptera) and tachinid fly host-finding

by J.R. ALDRICH, A. KHRIMIAN, A. ZHANG & P.W. SHEARER

1015-1031

A bug on the ocean waves (Heteroptera, Gerridae, Halobates Eschscholtz)

by L. CHENG

1033-1040

The biological context and evolution of Pendergrast's organs of Acanthosomatidae (Heteroptera, Pentatomoidea)

by C. FISCHER

1041-1054

Phenological activity patterns of imaginal Heteroptera in the canopy of different tree species in Bavaria, Germany

by M. GOßNER

1055-1094

Biology, ecology, and systematics of Triatominae (Heteroptera, Reduviidae), vectors of Chagas disease,

and implications for human health

by J. JURBERG & C. GALVÃO

1096-1116

Polyphagy in True Bugs: A case study of *Leptoglossus phyllopus* (L.) (Hemiptera, Heteroptera, Coreidae)

by P.L. MITCHELL

1117-1134

Maternal care in Australian oncomerine shield bugs (Insecta, Heteroptera, Tessaratomidae)

by G.B. MONTEITH

1135-1152

Notes on the bionomics of *Elasmucha grisea* (LINNAEUS 1758)

(Heteroptera, Acanthosomatidae) with special regard to joint brood guarding

by S. ROTH, W. ADASCHKIEWITZ & C. FISCHER

1153-1167

Observations on the sticky trap predator *Zelus luridus* STÅL (Heteroptera, Reduviidae, Harpactorinae),
with the description of a novel gland associated with the female genitalia

by C. WEIRAUCH

1169-1180

Appendix

Verzeichnis der in diesem Band neu beschriebenen Taxa /

List of new taxa described in this volume

1181-1184