

CONTENTS

Journal of Arachnology

Volume 36

Featured Articles

Number 2

Revision of the Neotropical huntsman spider genus <i>Vindullus</i> Simon (Araneae, Sparassidae) by Cristina A. Rheims & Peter Jäger	221
Comb-hairs on the fourth tarsi in pholcid spiders (Araneae, Pholcidae) by Bernhard A. Huber & Nadine Fleckenstein	232
<i>Himalmartensus</i> , a new genus of the spider family Amaurobiidae from Nepal (Araneae) by Xin-Ping Wang & Ming-Sheng Zhu	241
Diversity and composition of spider assemblages in five vegetation types of the Terai Conservation Area, India by Upamanyu Hore & V.P. Uniyal	251
First record of the scorpion genus <i>Microtityus</i> from Colombia, with the description of a new species (Scorpiones, Buthidae) by Ricardo Botero-Trujillo & Jorge Ari Noriega	259
How many species of fossil arachnids are there? by Jason A. Dunlop, David Penney, O. Erik Tetlie & Lyall I. Anderson	267
Intercontinental Triaenonychidae—the case of <i>Ceratontia</i> (Opiliones, Insidiatores) by Amanda Cruz Mendes & Adriano Brilhante Kury	273
Performance of two arboreal pitfall trap designs in sampling cursorial spiders from tree trunks by Jaime Pinzón & John Spence	280
The scorpion genus <i>Ananteris</i> in Colombia: comments on the taxonomy and description of two new species (Scorpiones, Buthidae) by Ricardo Botero-Trujillo	287
Alternative predatory tactics in a juvenile jumping spider by Maciej Bartos	300
Palpimanoid spiders from the Jurassic of China by Paul A. Selden, Huang Diying & Ren Dong	306
Estimating the diversity of arboreal oonopid spider assemblages (Araneae, Oonopidae) at Afrotropical sites by Wouter Fannes, Domir De Bakker, Katrijn Loosveldt & Rudy Jocqué	322
Mating behavior of <i>Sickius longibulbi</i> (Araneae, Theraphosidae, Ischnocolinae), a spider that lacks spermathecae by Rogério Bertani, Caroline Sayuri Fukushima & Pedro Ismael da Silva Júnior	331
Kin discrimination in the amblypygid, <i>Damon diadema</i> by Rachel E. Walsh & Linda S. Rayor	336
Behavioral mimicry in <i>Myrmarachne</i> species (Araneae, Salticidae) from North Queensland, Australia by Fadia Sara Ceccarelli	344
Homology in a context dependent predatory behavior in spiders (Araneae) by Vanessa Penna-Gonçalves, Carolina Ribeiro Martins Garcia & Hilton Ferreira Japyassú	352
<i>Trechona rufa</i> (Araneae, Dipluridae): new status, redescription and neotype designation with notes on the genus by Denis Rafael Pedroso, Renner Luiz Cerqueira Baptista & Paulo Sérgio Fiúza Ferreira	360
Spiders in wheat fields and semi-desert in the Negev (Israel) by Therese Pluess, Itai Opatovsky, Efrat Gavish-Regev, Yael Lubin & Martin H. Schmidt	368
Microhabitat use by <i>Peucetia flava</i> (Oxyopidae) on the glandular plant <i>Rhynchanthera dichotoma</i> (Melastomataceae) by José Cesar Morais-Filho & Gustavo Quevedo Romero	374
On the ultrastructure and identity of the eyes of Cyphophthalmi based on a study of <i>Stylocellus</i> sp. (Opiliones, Stylocellidae) by Gerd Alberti, Elisabeth Lipke & Gonzalo Giribet	379
Success of managed realignment for the restoration of salt-marsh biodiversity: preliminary results on ground-active spiders by Julien Pétilon & Angus Garbutt	388
The value of primary, secondary, and plantation forests for Neotropical epigeic arachnids by Nancy F. Lo-Man-Hung, Toby A. Gardner, Marco A. Ribeiro-Júnior, Jos Barlow & Alexandre B. Bonaldo	394
The identity of <i>Mygale brunripes</i> C.L. Koch 1842 (Araneae, Theraphosidae), with a redescription of the species and the description of a new genus by Caroline Sayuri Fukushima, Roberto Hiroaki Nagahama & Rogério Bertani	402
Allozyme characterization of <i>Hogna</i> species (Araneae, Lycosidae) of the Galápagos Archipelago by Léon Baert, Frederik Hendrickx & Jean-Pierre Maelfait	411
Tenacity and silk investment of two orb weavers: considerations about diversification of the Araneoidea by Tatiana Hideko Kawamoto & Hilton Ferreira Japyassú	418
Revision of the theraphosid spiders from China (Araneae: Mygalomorphae) by Ming-Sheng Zhu & Rui Zhang	425
Non-random patterns of spider species composition in an Atlantic rainforest by Clarissa Machado Pinto-Leite, Agustín Camacho Guerrero & Tania Kobler Brazil	448
<i>Mesabolivar brasiliensis</i> (Moenkhaus 1898) and <i>Mesabolivar cyaneotaeniatus</i> (Keyserling 1891) (Araneomorphae, Pholcidae): close relationship reinforced by cytogenetic analyses by Manuela Oliveira Ramalho, Douglas Araujo, Marielle Cristina Schneider, Antonio Domingos Brescovit & Doralice Maria Cella	453

Contents continued on inside back cover

Journal of ARACHNOLOGY

PUBLISHED BY THE AMERICAN ARACHNOLOGICAL SOCIETY



JOURNAL OF ARACHNOLOGY

2008

VOLUME 36, NUMBER 2

VOLUME 36

2008

NUMBER 2

THE JOURNAL OF ARACHNOLOGY

EDITOR-IN-CHIEF: **James E. Carrel**, University of Missouri–Columbia

MANAGING EDITOR: **Paula Cushing**, Denver Museum of Nature & Science

SUBJECT EDITORS: *Ecology*—**Søren Toft**, University of Aarhus; *Systematics*—**Mark Harvey**, Western Australian Museum and **Ingi Agnarsson**, University of Akron; *Behavior*—**Gail Stratton**, University of Mississippi; *Morphology and Physiology*—**Jeffrey Shultz**, University of Maryland

EDITORIAL BOARD: **Alan Cady**, Miami University (Ohio); **Jonathan Coddington**, Smithsonian Institution; **William Eberhard**, Universidad de Costa Rica; **Rosemary Gillespie**, University of California, Berkeley; **Charles Griswold**, California Academy of Sciences; **Marshal Hedin**, San Diego State University; **Herbert Levi**, Harvard University; **Brent Opell**, Virginia Polytechnic Institute & State University; **Norman Platnick**, American Museum of Natural History; **Ann Rypstra**, Miami University (Ohio); **Paul Selden**, University of Kansas; **Matthias Schaefer**, Universität Goettingen (Germany); **William Shear**, Hampden-Sydney College; **Petra Sierwald**, Field Museum; **I-Min Tso**, Tunghai University (Taiwan).

The *Journal of Arachnology* (ISSN 0161-8202), a publication devoted to the study of Arachnida, is published three times each year by *The American Arachnological Society*. **Memberships (yearly):** Membership is open to all those interested in Arachnida. Subscriptions to *The Journal of Arachnology* and *American Arachnology* (the newsletter), and annual meeting notices, are included with membership in the Society. Regular, \$55; Students, \$30; Institutional, \$125 . Inquiries should be directed to the Membership Secretary (see below). **Back Issues:** Patricia Miller, P.O. Box 5354, Northwest Mississippi Community College, Senatobia, Mississippi 38668 USA. Telephone: (601) 562-3382. **Undelivered Issues:** Allen Press, Inc., 810 E. 10th Street, P.O. Box 368, Lawrence, Kansas 66044 USA.

THE AMERICAN ARACHNOLOGICAL SOCIETY

PRESIDENT: **Paula Cushing** (2007–2009), Zoology Department, Denver Museum of Nature & Science, Denver, CO 80205-5798 USA.

PRESIDENT-ELECT: **Rosemary Gillespie** (2007–2009), Environmental Science, Policy & Management, Division of Organisms and Environment, University of California, Berkeley, CA 94720-3114 USA.

MEMBERSHIP SECRETARY: **Jeffrey W. Shultz** (appointed), Department of Entomology, University of Maryland, College Park, MD 20742 USA.

TREASURER: **Karen Cangialosi**, Department of Biology, Keene State College, Keene, NH 03435-2001 USA.

SECRETARY: **Alan Cady**, Dept. of Zoology, Miami University, Middletown, Ohio 45042 USA.

ARCHIVIST: **Lenny Vincent**, Fullerton College, Fullerton, California 92634 USA.

DIRECTORS: **Elizabeth Jakob** (2007–2009), **Jason Bond** (2006–2008), **Greta Binford** (2007–2009)

PAST DIRECTOR AND PARLIAMENTARIAN: **H. Don Cameron** (appointed), Ann Arbor, Michigan 48105 USA.

HONORARY MEMBERS: **C.D. Dondale**, **H.W. Levi**, **A.F. Millidge**.

Assessing the conservation value of the spider fauna across the West Palearctic area by **F. Ysnel, J. Pétilion, E. Gérard & A. Canard** 457

SHORT COMMUNICATIONS

Relationship between litter characteristics and female size in *Tityus stigmurus* (Scorpiones, Buthidae) by **Ana P.N. Aguiar, Pedro L. Santana-Neto, José R.B. Souza & Cleide M.R. de Albuquerque** 464

A new species of *Cryptocellus* (Arachnida, Ricinulei) from northwestern Colombia by **Ricardo Botero-Trujillo & Gustavo A. Pérez** 468

On the genus *Neostothis* Vellard (Araneae, Nemesiidae) by **Sylvia M. Lucas, Victor Passanha, Charles R. V. Janini & Rafael P. Indicatti** 472

Notes on the life history traits of *Rhopalurus rochai* (Scorpiones, Buthidae) under different feeding regimes by **Sarah M. N. Sarmiento, Adriano M. de Souza, Marcos Vinicius Meiado & Cleide M. R. de Albuquerque** 476

Courtship and mating behavior of *Grammostola schulzei* (Schmidt 1994) (Araneae, Theraphosidae), a burrowing tarantula from Argentina by **Nelson E. Ferretti & Adriana A. Ferrero** 480

INSTRUCTIONS TO AUTHORS 484

USERNAME: emerton08

PASSWORD: therid08

Cover photo: Logo designed by Adriano B. Kury.

Publication date: 22 October 2008

© This paper meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).