

CONTENTS
Journal of Arachnology

Volume 43

Number 3

Featured Articles

A phylogenetic classification of jumping spiders (Araneae: Salticidae)
by **Wayne P. Maddison** 231

A molecular phylogeny of bark spiders reveals new species from Africa and Madagascar (Araneae: Araneidae: *Caerostris*) /by **Matjaž Gregorič, Todd A. Blackledge, Ingi Agnarsson & Matjaž Kuntner** 293

On three new *Euathlus* tarantulas from Argentina and cladistic analysis of the genus /by **Nelson Ferretti** 313

Description of the first visually cryptic species of *Paratropis* (Araneae: Paratropididae) from Ecuador
by **Nadine Dupérré** 327

Description of two new species of *Tangaroa* Lehtinen, 1967 (Arachnida: Araneae: Uloboridae)
by **Lidiane Salvatierra, Antonio Domingos Brescovit & Ana Lúcia Tourinho** 331

A review of the taxonomy and biology of pseudoscorpions of *Nannowithius* and *Termitowithius* (Pseudoscorpiones, Withiidae), inquilines of social insects /by **Mark S. Harvey** 342

Revised diagnoses for the pseudoscorpion genera *Metawithius* and *Microwithius*, with the description of a new Australian genus, and notes on *Withius* (Pseudoscorpiones, Withiidae) /by **Mark S. Harvey** 353

Cues guiding uloborid construction behavior support orb web monophyly
by **William G. Eberhard & Gilbert Barrantes** 371

Movement, sex ratio, and population density in a dwarf male spider species, *Misumenoides formosipes* (Araneae: Thomisidae) /by **G. N. Dodson, A. G. Anderson & L. M. Stellwag** 388

Putative microbial defenses in a social spider: immune variation and antibacterial properties of colony silk
by **Carl N. Keiser, Alexander E. DeMarco, Taylor A. Shearer, Jessica A. Robertson & Jonathan N. Pruitt** ... 394

Effects of hedgerows and riparian margins on aerial web-building spiders in cereal fields
by **Sonja C. Pfister, Ralf B. Schäfer, Jens Schirmel & Martin H. Entling** 400

Neochelanops michaelsoni (Pseudoscorpiones: Chernetidae) as a potential bioindicator in managed and unmanaged *Nothofagus* forests of Tierra del Fuego /by **María Vanessa Lencinas, Gastón Kreps, Rosina Soler, Pablo Luis Peri, Andrés Porta, Martín Ramírez & Guillermo Martínez Pastur** 406

Short Communications

Day-time vs. night-time sampling does not affect estimates of spider diversity across a land use gradient in the Neotropics /by **Vincent Vedel, Axel Cerdan, Quentin Martinez, Christopher Baraloto, Frédéric Petitclerc, Jérôme Orivel & Claire Fortunel** 413

How *Micrathena duodecimpinosa* (Araneae: Araneidae) uses the elasticity of her dragline to hide her egg sac
by **William G. Eberhard** 417

New observations on a neotropical termite-hunting theridiid spider: opportunistic nest raiding, prey storage, and ceratopogonid kleptoparasites /by **Stephen A. Marshall, Art Borkent, Ingi Agnarsson, Gard W. Otis, Lyndsay Fraser & Dave d'Entremont** 419

Influence of ambient temperature on efficacy of signals produced by female *Schizocosa ocreata* (Hentz, 1844) (Araneae: Lycosidae) /by **Melissa Campbell & J. Andrew Roberts** 422

Instructions to Authors 425

Journal of ARACHNOLOGY

PUBLISHED BY THE AMERICAN ARACHNOLOGICAL SOCIETY

JOURNAL OF ARACHNOLOGY

2015

VOLUME 43, NUMBER 3



VOLUME 43

2015

NUMBER 3

JOURNAL OF ARACHNOLOGY

EDITOR-IN-CHIEF: **Robert B. Suter**, Vassar College

MANAGING EDITOR: **Richard S. Vetter**, University of California–Riverside

SUBJECT EDITORS: *Ecology*—**Stano Pekár**, Masaryk University, Czech Republic; *Systematics*—**Mark Harvey**, Western Australian Museum and **Michael Rix**, Queensland Museum, Australia; *Behavior*—**Elizabeth Jakob**, University of Massachusetts Amherst; *Morphology and Physiology*—**Peter Michalik**, Ernst Moritz Arndt University Greifswald, Germany

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; **Marie Herberstein**, Macquarie University; **Yael Lubin**, Ben-Gurion University of the Negev; **Brent Opell**, Virginia Polytechnic Institute & State University; **Ann Rypstra**, Miami University (Ohio); **William Shear**, Hampden-Sydney College; **Jeffrey Shultz**, University of Maryland; **Petra Sierwald**, Field Museum; **Søren Toft**, Aarhus University; **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:** James Carrel, 209 Tucker Hall, Missouri University, Columbia, Missouri 65211-7400 USA. Telephone: (573) 882-3037. **Undelivered Issues:** Allen Press, Inc., 810 E. 10th Street, P.O. Box 368, Lawrence, Kansas 66044 USA.

THE AMERICAN ARACHNOLOGICAL SOCIETY

PRESIDENT: **Marshal Hedin** (2015–2017), San Diego State University, San Diego, California, USA.

PRESIDENT-ELECT: **Richard Bradley** (2015–2017), The Ohio State University, Columbus, Ohio, USA

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

TREASURER: **Karen Cangialosi**, Department of Biology, Keene State College, Keene, New Hampshire, USA.

SECRETARY: **Paula Cushing**, Denver Museum of Nature and Science, Denver, Colorado, USA.

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

DIRECTORS: **Michael Draney** (2014–2016), **Charles Griswold** (2015-2017), **J. Andrew Roberts** (2015-2017)

PARLIAMENTARIAN: **Brent Opell** (appointed)

HONORARY MEMBER: **C.D. Dondale**

Cover photo: A female orchard spider, *Leucauge venusta* (Tetragnathidae), at the center of its orb web in Estero Llano Grande State Park, Hidalgo County, Texas, USA. Photo by Bryan E. Reynolds.

Publication date: 25 November 2015

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