

Acarology Bulletin

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A Newsletter of the **SYSTEMATIC AND APPLIED ACAROLOGY SOCIETY**

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In this issue.....

14	News
15	New books
18	Contents of Journals
18	Acarologia
19	Exp. App. Acarol.
20	Syst. Appl. Acarol.
20	J. Japn. Acarol. Soc.
20	Syst. App. Acarol.
23	New members
23	Acknowledgment
24	SAAS member application form

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News

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XI INTERNATIONAL CONGRESS OF ACAROLOGY: NEW INFORMATION ABOUT REGISTRATION AND PAYMENT OF FEES": EARLY REGISTRATION (ABSTRACT SUBMISSION AND PAYMENT OF FEES) IS EXTENDED UNTIL APRIL 20TH." LATE REGISTRATION (ABSTRACT SUBMISSION AND PAYMENT OF FEES) IS EXTENDED UNTIL MAY 10TH."

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Systematic & Applied Acarology Special Publications ISSN 1461-0183, published by the SAAS since 1997, changed its format from A5 to A4 size in 2002. Accepted papers from now on will be published as soon as they are ready for publication. Recent papers in SAASP were published within 4 weeks after acceptance. SAASP is the only peer-reviewed acarological journal that provides full text of all issues free of charge on the internet.

Since Jan. 2002, **Dr. Lance A.**

Durden (Institute of Arthropodology & Parasitology, Georgia Southern University, Statesboro, Georgia 30460, USA; E-mail ldurden@gsvms2.cc.gasou.edu) has joined **Dr. Anne Baker** (The Natural History Museum, Department of Entomology, London SW7 5BD, UK; e-mail A.Baker@nhm.ac.uk) and **Dr. Zhi-Qiang Zhang** (Landcare Research, P.B. 92170, Auckland, New Zealand; e-mail zhangz@landcare.cri.nz) as a co-editor of this rapid journal. Dr Durden will be responsible for manuscripts on ticks. Manuscripts on mites should be submitted to either **Dr. Baker** or **Dr. Zhang**. More details about journal are available at: http://www.nhm.ac.uk/hosted_sites/acarology/saas/saasp.html

Dr. Qing-Hai Fan sponsored by the China Scholarship Council is currently doing research on mites at the Queensland University in Australia with Dr. David Evens Walter. His research mainly consists of two parts, systematic on Raphignathoidea from Australia and usage of beneficial mites for biological control of thrips. He is enjoyed in learning from and discussing with both Dr. Walter and Dr. Heather Proctor. Dr Fan visited Dr Zhi-Qiang Zhang in March and April 2002 to

work jointly on New Zealand Raphignathoidea.

UPDATE ON THE 2002 ACAROLOGY SUMMER PROGRAM

It has taken us some time, but the webpage for the Acarology Summer Program (<http://www.biosci.ohio-state.edu/~acarolog/sum2k1.htm>) has been updated to reflect the addition of Agricultural Acarology to this years line-up. This means that the program will include workshops in Introductory, Soil, Agricultural, and Medical-Veterinary Acarology. Please note that the addition of Agricultural Acarology has also caused some rearrangements in the Soil Acarology workshop.

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New Books

Mites in Soil. An Interactive Key to Mites & Other Soil Microarthropods by David Evans Walter & Heather C. Proctor. In CD, built with built in Lucid Professional Version 2.0 (<<http://www.lucidcentral.com/>>. published by CSIRO. [User-friendly keys to adults of the major groups (up to families) of diverse soil-inhabiting mites, suitable for advanced student to determine where to go to begin a more detailed identification].

Acarid Phylogeny and Evolution. Adaptation in Mites and Ticks.

Proceedings of the IV Symposium of the European Association of Acarologists. (eds) Fabio Bernini, Roberto Nannelli, Giorgio Nuzzaci, Enrico de Lillo. Kluwer Academic Publishers, Dordrecht Hardbound, ISBN1-4020-0465-6. March 2002, 472 pp. EUR 190.00/ USD 175.00/ GBP 120.00

The European Association of Acarologists organizes an international symposium every four years. This volume is the proceedings of the papers presented at The Fourth Symposium of the European Acarologists held in Siena, Italy, July 24-28, 2000, including both invited papers and other contributions. The Proceedings include a broad range of papers on taxonomy, systematics, phylogeny, molecular biology, genetics, ecology (relationships between Acari and their plant/animal host), life strategies, morphology (reproductive anatomy, sperm transfer, structure and functioning of various organs of Acari), physiology, control and behaviour of mites and ticks.

The volume begins with a chapter entitled "As time goes by: a profile of Italian Acarology" by *S. Ragusa*, which gives a historical account of Italian acarology. The rest of the book is organized into the following themes/sections:

Phylogeny, Genetics and Speciation. Mites as models in development and genetics; *R.H. Thomas*. Speciation and biogeography in eriophyid mites: a review; *B. Fenton*. Mitochondrial DNA variation and phylogeography of *Steganacarus* on Tenerife (Canary Islands); *N. Salomone, F. Bernini*. Preliminary report on fossil oribatid mites

from the Florisbad Quaternary Research Station, South Africa; *L. Coetzee*. An Early Ordovician oribatid mite (Acari: Oribatida) from the island of Öland, Sweden; *F. Bernini, et al.* Genetic Polymorphism in prey preference at a small spatial scale: a case study of soil predatory mites (*Hypoaspis aculeifer*) and two species of astigmatic mites as prey; *I. Lesna, M.W. Sabelis*. Experimental hybridization of *Rhizoglyphus robini* and *R. echinopus* (Acari: Acaridae).

Morphology, Life Strategies and Physiology. Water Inhabiting Mites. The water mites (Acari, Hydrachnidia) of a little disturbed forest stream in southwest Germany - a study on seasonality and habitat preference, with remarks on diversity patterns in different geographical areas; *R. Gerecke*. The biodiversity of Neotropical water mites; *T. Goldschmidt*. Life history strategies of *Hygrobatas nigromaculatus*, a widespread palaeartic water mite (Acari, Hydrachnidia, Hygrobatidae); *P. Martin, C. Davids*. The impact of human activity on the water mite fauna (Acari, Hydrachnidia) of the 'Lasy Janowskie' Landscape Park (South-Eastern Poland); *R. Stryjecki*. The occurrence of water mites (Hydrachnidia, Acari) in saline waters from a stone coal-mine in Bogdanka (South-Eastern Poland); *W. Kowalik*.

Soil Inhabiting Mites. Reproductive systems of gamasid mites (Acari, Anactinotrichida) reconsidered; *G. Alberti*. Morphological variability between and within populations of *Tectocephus* (Acari, Oribatida, Tectocephidae) from the *velatus*-complex in central Europe; *G. Weigmann*. Endogynium types in

Parasitidae as revealed by SEM (Acari: Gamasida: Parasitina); *W. Witalinski, K. Borsuk*. Colonization of primary sterile soils by epedaphic gamasina mites; *A. Christian*. Colonization of a dolomitic dump by mesostigmatid mites (Acari, Mesostigmata); *G. Madej, P. Skubala*. Zoogeographical survey on the Phthiracaroida (Acari, Oribatida) of the Ethiopian region; *W. Niedbala*. The occurrence of *Macrocheles* mites (Acari: Macrochelidae) in relation to the activity of dung beetles: a field study in Southern France; *H. Glida, M. Bertrand*. Development of oribatid mite communities (Acari, Oribatida) on a mine dump; *P. Skubala*.

Parasitic Mites. Three-dimensional structure of the gut system of the mites *Ameronothrus lineatus* (Oribatida: Ameronothridae) and *Hyadesia fusca* (Astigmata: Hyadesiidae); *J. Bücking*. Ultrastructural investigations of Haller's organ in *Dermacentor reticulatus* (Fabr.) (Acari: Ixodida: Ixodidae); *A. Buczek, et al.* Morphologic adaptations to parasitism on reptiles: Pterygosomatidae (Prostigmata: Raphignathina); *M. Bertrand*.

Plant Inhabiting Mites. Fine structure of the phytoseiid-type sperm access system (Acari, Gamasida, Phytoseiidae); *G. Alberti, A. Di Palma*. Fine morphology of the bothridial receptor organs of *Pediculaster mesembrinae* (Acari: Siteroptidae) adult female; *E. de Lillo, P. Aldini*. Fine structure of a putative pedipalpal thermo/hygro-sensillum in *Tarsonemus nodosus* Schaarschmidt, 1959 (Acari: Tarsonemidae); *G. Nuzzaci, et al.* Mouthparts of *Tarsonemus nodosus* Schaarschmidt, 1959 (Acari: Tarsonemidae): fine structure and

functional morphology; *G. Nuzzaci, et al.*

Applied Acarology: Agricultural and Ecological Aspects. Some future prospects in Agricultural Acarology, with focus on phytoseiid mites - host plant relationships; *S. Kreiter, M.-S. Tixier*. Mite communities on linden trees (*Tilia* sp.) in an urban environment; *D. Kropczynska, et al.* Effect of prey density on functional and numerical responses of the predatory mite *Typhlodromus negevi* (Acari: Phytoseiidae); *A.H. Rasmy, G.M. Abou-Ellella*. Dietary influence on life history and predation of the phytoseiid mite, *Amblyseius deleoni* (Acari: Phytoseiidae); *A.H. Rasmy, et al.* Dispersion of *Amblyseius andersoni* (Chant) (Parasitiformes, Phytoseiidae) on grapevines and hazelnut near apples and peaches in the province of Caserta (Southern Italy); *M. Nicòtina, E. Cioffi*. How can molecular data contribute to the analysis of the colonization of vineyards by *Kampimodromus aberrans* (Acari: Phytoseiidae); *M.-S. Tixier, et al.* Interspecific predation and cannibalism in four phytoseiid species of the Mediterranean area (Acari: Phytoseiidae); *M. Castagnoli, et al.* Effects of Neem oil (*Azadirachta indica* A. Juss) on *Tetranychus urticae* Koch (Acariformes, Tetranychidae) in laboratory tests; *H. Tsolakis, et al.* Influence of different types of grass mulching on the communities of oribatid mites in the vineyards; *R. Nannelli, S. Simoni*. Phytoseiid mites - pollen relationships: observations in a vineyard and the surrounding vegetation; *C. Duso, et al.* Influence of carmine spider mite *Tetranychus cinnabarinus* Boisd. (Acarida: Tetranychidae) feeding

on ethylene production and the activity of oxidative enzymes in damaged tomato plants; *M. Kielkiewicz*. Changes in the content of soluble sugars in leaves of cucumber plant infested with *Tetranychus urticae* Koch and treated with plant growth promoting rhizobacteria (PGPR); *A. Tomczyk*.

Applied Acarology: Medical and Veterinary Aspects. Adaptation of mites and ticks to parasitism. Medical and veterinary aspects; *F. Dusbabek*. Comparison of rabbit skin changes after feeding of *Ixodes ricinus* (L) and *Dermacentor reticulatus* (Fabr.); *A. Buczek, et al.* House-dust mite infestation in temporary prefabricated homes in Central Italy; *A. Mansi, et al.* Observations on the spread of *Pyemotes ventricosus* (Prostigmata: Pyemotidae) in houses in Umbria, Central Italy; *M. Principato*. Linden-leaf morphology and the host-plant susceptibility to *Eotetranychus tiliarium* (Hermann) (Acarida: Tetranychidae); *B. Czajkowska, M. Kielkiewicz*. In vitro effects of ivermectin on adult and developmental stages of two species of blood feeding arthropods; *S.R. Allam, et al.* Index.

The book was generally well edited. It was also well printed and nicely bound.

Like previous proceedings of the same series, this book is useful contribution to acarological literature and is of interest to students of systematic and applied acarology, but the price of 175 USD will probably prevent it from reaching the book shelves of many acarologists.

Z.-Q. Zhang
Auckland, New Zealand

Contents of Journals

Acarologia

Vol. 41, No. 3, 2000

Cornet, J.P., Yoksan, S., and Gonzalez, J.P. Nouvelles observations sur la bioecologie des tiques en Thaïlande: donnees recentes sur les especes presentes dans la plaine centrale. 287

Salmane, I. and Heldt, S. Predatory soil mites (Acari: Mesostigmata, Gamasina) from the Western Baltic Coast of Latvia. 295

Pandit, R.K. and Chakrabarti, S. A new genus and four species of Eriophyid mites (Acari: Eriophyidae) from North Bengal, India. 303

Chakrabarti, S., Chakrabarti, S., and Chakrabarti, S. Effect of infestation of *Acalitus hibisci* (Eriophoidea, Eriophyidae), a gall forming mite on age and hairs of leaves of *Hibiscus vitifolius*. 313

Das, T.K., Sarkar, P.K., Dry, P.K., and Somchoudhury, A.K. The chemical basis of resistance of pineapple plant to *Dolichorhanychus floridanus* Banks (Prostigmata: Tenuipalpidae). 317

Panou, H.N., Emmanouel, N.G., and Karmierski, A. *Neopronematus*, a new genus of the subfamily Pronematinae (Acari: Prostigmata: Tydeidae) and a new species from Greece. 321

Bucking, J. Mating behaviour, spermatophore and functional anatomy of

the male reproductive organs of *Piona carnea* (Koch, 1836) (Prostigmata, Hydrachnidia). 327

Caballero, A.I. and Iturrondobeitia, J.C. Contribution to the knowledge of *Carabodes palmifer* Berlese, 1904 (Acari: Oribatida, Carabodidae). 353

Niedbala, W. *Apoplophora* - oriental genus of Mesoplophoroidea (Acari: Oribatida). 361

Martinez, P.A. and Bernava Laborda, V. *Gehyphochthonius mariano* n. sp., (Acari: Oribatida), from sand dunes in coastal Argentina. 381

Vol. 41, No. 4, 2000

Basha, A.-A. and Yousef, A.-T.A. New species of Laelapidae and Ascidae from Egypt: Genera *Androlaelaps* and *Blattisocius* (Acari: Gamasida). 395

Parvez, A., Akbar, S., and Chavdhri, W.M. Three new species of the genus *Euseius* Wainatcin (Acarina: Phytoseiidae) from Pakistan. 403

Papnoannou-Souliotis, P., Markoylannaky-Printziou, D., Zeginis, G. Observations on acarofauna in four apple orchards of Central Greece. II Green cover and hedges as potential sources of Phytoseiid mites (Acari: Phytoseiidae). 411

Pontner, K., De Moraes, G.J., and Kreiter, S. Biology of *Tenuipalpus heveae* (Acari: Tenuipalpidae) on rubber tree leaves. 423

Boczek, J. and Chandrapatya, A.

Studies on Eriophyoid mites (Acari: Eriophyoidea). XXXVII. 429

Petanovic, R.U. One new genus and four new species of Eriophyoid mites (Acari: Eriophyoidea) from Yugoslavia. 437

Kazmierski, A. and Ripka, G. *Andretydeolus olius*, a new genus and species of Iolinid mite from Hungary (Tydeoidea: Iolinidae: Tydeolinae). 445

Tuzovsu, P., Beneatti, D., and Gerecke, R. The water mite family Acherontacaridae Cook, 1967 nov. stat. And diagnosis of the superfamily Hydrovolzioidea Thor. 1905 (Acariformes, Hydrachnidia). 451

Schatz, H. The genus *Eremaeosetes* (Acari: Oribatida) on the Galapagos Islands. 475

Experimental And Applied Acarology
Vol. 25, No. 7, 2001

Di Palma, A. and Alberti, G. Fine structure of the female genital system in phytoseiid mites with remarks on egg nutritimentary development, sperm-access system, sperm transfer, and capacitation (Acari: Gamasida, Phytoseiidae). 525

van Engelsdorp, D. and Otis, G.W. The role of cuticular compounds in the resistance of honey bees (*Apis mellifera*) to tracheal mite (*Acarapis woodi*). 593

Nielsen, P.S. Developmental time of *Blattisocius tarsalis* (Acari: Ascidae) at different temperatures. 605

Norton, R.A. Microscopic anatomy of invertebrates. Vol. 8: Chelicerate arthropoda. 609.

Systematic & Applied Acarology Special Publications

No. 10 (December 2001)

Determination of the physiological age of *Rhipicephalus appendiculatus* (Acari: Ixodidae). G. CHAKA, M. MADDER, N. SPEYBROECK, S. TEMPIA, K. TONA & D. BERKVENS pp. 1-16

On the type specimens of *Smaris grandjeani grandjeani* (Oudemans, 1941) (Acari: Smarididae) from Panama. ZHI-QIANG ZHANG pp. 17-23

No. 11 (18 Jan. 2002)

Aethosolenia laselvensis gen. nov., sp. nov., a new eupodoid mite from Costa Rica (Acari: Prostigmata). ANNE S. BAKER & EVERT E. LINDQUIST pp.1-11

Journal of the Acarological Society of Japan Vol.10, No.2

Original Papers

ENAMI, Y. AND J. AOKI Damaeid mites (Acari: Oribatei) from the Kushiro wetland of Hokkaido, north Japan (II) p.87

OHKUBO, N. A revision of Oppiidae and its allies (Acarina: Oribatidae) of Japan 1. Genus *Lasiobelba* p.97

KUBOTA, T. A new arboreal species of the family Otocephelidae (Acari: Oribatida) found from *Quercus gilva* in Shikoku, west Japan p.111

Short Communications

FUJIMOTO, K. An experimental analysis on the activity of *Haemaphysalis flava* adults (Acari: Ixodidae) in summer p.119

KUROSA, K. New replacement name for *Termitacarus* Kurosa (Acari: Pygmephoridae) p.123

Publications on Japanese mites and ticks (In Japanese) p.125

Membership list p.145

Systematic & Applied Acarology

Forthcoming papers in Volume 7 (2002)

Biochemistry, Immunology & Epidemiology

First isolation of *Orientia* (*O.*) *tsutsugamushi* from larvae and reared nymphs of *Leptotrombidium* (*L.*) *linhuaikongense* collected from wild rodents in Fei County, Shandong Province, China. YUNXI LIU *et al.*

House dust mites from urban and rural houses on the lowland Pacific slopes of Panama. ROBERTO J. MIRANDA, DIOMEDES QUINTERO A. & ALEJANDRO ALMANZA

Biology, behaviour & ecology

Bionomics of citrus yellow mite, *Eotetranychus cendanai* Rimando (Acari: Tetranychidae). T. THONGTAB, A.

CHANDRAPATYA & G.T. BAKER

Relationships between leaf trichome characteristics and field resistance to cassava green mite, *Mononychellus tanajoa* (Bondar). E. N. NUKENINE, A. G. O. DIXON, A. T. HASSAN & F.G. ZALOM

Systematics, Morphology & Evolution

Morphological comparison of the adult and larval stages of the Australian ticks *Ixodes holocyclus* Neumann, 1899 and *I. cornuatus* Roberts, 1960 (Acari : Ixodoidea). J. JACKSON, I. BEVERIDGE, N.B. CHILTON, R.H. ANDREWS & B. DIXON

Description of, and validation of names for, the genus *Crotalomorpha* and the family Crotalomorphidae (Acari: Heterostigmata). E.E. LINDQUIST & G.W. KRANTZ

Two new species of the Bonziinae from China (Acari: Cunaxidae). JIANZHEN LIN & YANXUAN ZHANGA new species of the genus *Austroteneriffia* (Acari: Teneriffiidae) from Iran. E.A. UECKERMANN & M. KHANJANI

A new genus and species of larval Neothrombiidae (Acari: Trombidioidea) from Iran. ALIREZA SABOORI

Revision of the sand-mite tribe Walchiini Ewing *sensu* Wen (Acariformes: Walchiidae). TING-HUAN WEN

A new sand mite of the subgenus *Digenualea* from Qinghai, China (Acari: Trombiculidae: *Neotrombicula*). YING

MA, XI-ZHENG YANG & HONG-JIAN CHEN

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Areas of specialization:

- systematics and phylogenetics of Acari diversi
- homology and standardized terminology of acarine external structures;
- symbiotic relationships between mites, insects, nematodes, and fungi;
- biodiversity of targeted mite taxa in selected ecosystems.

Listing of mite groups of special interest:

- world fauna of predatory mite family Ascidae;
- world fauna of phytophagous, fungivorous, parasitic and predatory mites of family Tarsonemidae;
- authority for identification of mites in diverse families of Mesostigmata and Prostigmata, including predators, parasites, plant-feeders, fungivores, and stored food and allergy-causing pests for Agriculture and Agri-Food Canada's National Identification Service.

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