

# Acarology Bulletin

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A Newsletter of the SYSTEMATIC AND APPLIED ACAROLOGY SOCIETY

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## Acarological News

### XXII International Congress of Entomology

The XXII International Congress of Entomology was held in Brisbane, Australia, 15 – 21 August 2004. The theme of this Congress is – Strength in Diversity. This Global Congress was a truly a major event, featuring a diverse program and a range of associated meetings and activities.

Some 3100 delegates from around the world gave 1950 talks and 1000 posters.

Acarology is one of the 16 formal sections of the congress, with three formal symposia, two oral sessions of submitted papers and some posters.

#### *List of contents relating to Acarology*

- Arimoto, Y., Tanaka, K., Hagiwara, A., Motegi, A., Ohta, Y., Fujiki, Y. & Mori, H. (2004) Acaritouch® EC, a novel miticide which contains a food additive as an active ingredient.
- Barron, P.D. & Coates, C.J. (2004) Differential gene expression among feeding nymphs of *Amblyomma americanum*.
- Beaulieu, F., Walter, D.E., Proctor, H.C. & Kitching, R.L. (2004) Soil mesostigmata in the Australian subtropics: Forest type, habitat type, and megadiversity hype.
- Benvenga, S.R., Gravena, S., da Silva, J.L. & Amorim, L.C.S. (2004) Toxicity of cascade (flufenoxuron) to natural enemies and influence upon arthropod pests in citrus orchard.
- Bjornson, S. (2004) The diversity of microorganisms associated with the phytoseiid, *Phytoseiulus persmilis*.
- Celoto, F.J., Papa, G., Rotundo, M., Mosca, H.R. & Trevizan, L.R.P. (2004) Activity of the new acaricide (etoxazole) on the citrus leprosis mite, *Brevipalpus phoenicis* (Geijskes, 1939) (Acari: Tenuipalpidae) in field and laboratory conditions.
- Chiasson, H., Vincent, C. & Bostanian, N.J. (2004) Acaricidal and insecticidal properties of a Chenopodium-based botanical.
- Cruickshank, R.H. & Paterson, A.M. (2004) Multiple origins and losses of parasitism in dermanysoid mites (Acari: Mesostigmata).
- Gravena, S., Benvenga, S.R., da Silva, J.L. & Amorim, L.C.S. (2004) Selectivity of envidor (spirodiclofen) to some natural enemies in citrus orchard.

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- Hasegawa, M., Fukuyama, K., Makino, S., Okochi, I., Goto, H., Mizoguchi, T., Sakata, T. & Tanaka, H. (2004) Collembolan and oribatid mites community dynamics with the secondary succession of deciduous forests in Japan.
- Hinomoto, N. & Takafuji, A. (2004) Molecular phylogeography in the Kanzawa spider mite, *Tetranychus kanzawai*.
- Hossain, Z., Beattie, G.A.C. Spooner-Hart, R. & Nicetic, O. (2004) Effect of nC24 agricultural mineral oil on two-spotted mite (*Tetranychus urticae* Koch) and cotton aphid (*Aphis gossypii* Glover).
- Jezejcak, M.F. (2004) Supralittoral mite diversity in a meiofaunal community of a temperate non-tidal sandy beach: ecological role and significance.
- Kinnear, A. (2004) Mite assemblages in semi-arid regions of Western Australia.
- Kojima, T. & Sakuma, M. (2004) Spatial orientation of the mould mite in the computer-programmed olfactory field.
- Lauzon, C. & Hoy, M. (2004) Microbial partners of insects: Knowing how and when to give credit where credit is due.
- Maranga, R.O. (2004) Performance of a prototype baited-trap in attracting and infecting *a. Variegatum* (Fabricus, 1794).
- Minor, M.A. & Cianciolo, J.M. (2004) The small-scale diversity of free-living soil mites (Acari: Oribatida, Gamasina) along a gradient of land use types in New York.
- Morelli, M. & Spicer, G. (2004) Cospeciation between the mite *Ptilonyssus sairae* and its bird hosts (Acari: Rhinonyssidae).
- Mullen, G.R. & Anderson, R.R. (2004) Tick-induced paralysis among wild birds in North America.
- Munderloh, U.G., Balidge, G.D., Burkhardt, N.B., Simser, J.A. & Kurtti, T.J. (2004) Tick symbiotes: mysterious associations.
- Nicetic, O., Watson, D.M. & Beattie, G.A.C. (2004) Use of mineral oil and predatory mites in the management of two-spotted mite in greenhouse roses.
- Okabe, K. & Makino, S. (2004) Structures of acaritaria of the eumenid wasp *Allodynerus delphinaris* with biology of the associated mite, *Ensliniella parasitica*.
- Oku, K., Yano, S., Osakabe, M. & Takafuji, A. (2004) Predator avoidance in the Kanzawa spider mite, *Tetranychus kanzawai* (Acari: Tetranychidae).
- Osakabe, M., Goka, K., Toda, S., Shintaku, T. & Amano, H. (2004) Significance of microhabitat on metapopulation structure in spider mites.

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- Osler, G.H.R. & Kinnear, A. (2004) Are there patterns in Australian oribatid mite communities? A review.
- Patil, B.V., Bheemanna, M. & Hosamani, A. (2004) Bioefficacy of bifenthrin (talstar) 10 EC against chilli insect pests in irrigated ecosystem.
- Patil, B.V., Bheemanna, M. & Thulasiram, K. (2004) Fenpropathrin (meothrin) 30 EC: an ideal insecticide in chilli (*Capsicum annuum* L.) insect pest management.
- Perotti, M.A. & Braig, H.R. (2004) Rickettsia-like endosymbionts shared by mites and ticks.
- Price, J.F. & Sorensen, K.A. (2004) Methods to increase efficiency of releasing *Phytoseiulus persimilis* Athias-Henriot (Acari: Phytoseiidae) predators of twospotted spider mites (*Tetranychus urticae* Koch (Acari: Tetranychidae)) in strawberry.
- Rashki, M. & Saboori, A.(2004) Fauna of Tenuipalpidae (Acari: Prostigmata) of Karaj region and new host records for Iran.
- Rodrigues, J.C.V., Achor, D.S., Childers, C.C. & Kitajima, E.W. (2004) Three new host plants of the *Brevipalpus*-borne virus found in United States.
- Rodrigues, J.C.V., Zuniga, J.A., Childers, C.C. & Gallo-Meagher, M. (2004) New *Brevipalpus* haplotype from citrus in Honduras, Central America based on mitochondrial COI DNA sequences.
- Ruf, A. (2004) How predatory soil mite diversity contributes to soil quality assessment on the landscape level.
- Seeman, O.D. & Nahrung, H.F. (2004) Female-biased parasitism and the importance of host-generation overlap in a sexually-transmitted parasite of beetles.
- Seeman, O.D. & Walter, D.E. (2004) Associations between mesostigmata and insects.
- Selvasundaram, R., Muraleedharan, N. & Sudarmani, D.N.P. (2004) Studies on certain new acaricides for the control of red spider mites infesting tea in south India.
- Shao, R., Mitani, H., Barker, S.C., Takahashi, M. & Fukunaga, M. (2004) Novel organization of the mitochondrial genome of a chigger mite: implications on Acari phylogeny & mtDNA recombination.
- Skelton, A.C., Birkett, M.A., Cameron, M.M. & Pickett, J.A. (2004) Chemical ecology of the house dust mite: a potential alternative to their control?
- Stejskal, V., Hubert, J., Hýblová, J., Marešová-Dolečková, L. & Mareš, M. (2004) The effect of amylase inhibitor on target and non-target stored-product mites.
- Stone, B.F. (2004) Potency and avidity of tick paralysis antitoxin in Australia.

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- Toyoshima, S. (2004) Predators for the control of spider mites in Japanese apple orchards.
- Weeks, A.R. (2004) The reproductive effects of infection by the intracellular bacterium *Cardinium* in mites.
- White, W.H., Plummer, P.R., Kemper, C.J., Miller, R.J., Davey, R.B., Gutierrez, J.A., Meyer, J.A. & Smith, C.K. (2004) An *in vitro* larval immersion microassay for screening candidate Acaricides.
- Zchori-Fein, E. (2004) Microorganisms associated with the phytoseiid *Neoseiulus californicus*.
- Zhang, Z.-Q. (2004) Evolutionary ecology of mite-insect associations in the Acari formes.

Zhi-Qiang Zhang

*Landcare Research, Auckland, New Zealand*

### **Joseph A. Camin Fellowship**

This award is intended to support graduate students interested in research on the systematics of mites and ticks. The fellowship will assist students at the graduate level to attend the Acarology Summer Program at Ohio State University or an equivalent institution where they can obtain training in the systematics of acarines. The award is made annually and the value will depend on the interest earned by the endowment.

#### *Eligibility*

All graduate students who are members of the Entomological Society of America (ESA) or the Acarological Society of America (ASA) are eligible to apply for this fellowship.

#### *Award procedures*

An application must contain the following information:

1. Name address, telephone number, and e-mail address of the applicant
2. Description of the applicant's academic studies including plans for the coming year
3. Current official transcript of college grades (may be sent separately)
4. Brief statement of the applicant's research interest and goals in acarology
5. A letter of recommendation from the applicant's academic advisor (Sent separately)

#### *Application procedures*

All award applications shall be submitted as paper or electronic documents to:

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ASA selection committee, c/o Dr. Hans Klompen, Ohio State University, Museum of Biological Diversity, 1315 Kinnear Rd., Columbus, OH 43212-1192 (e-mail: klompen.1@osu.edu).

Application packets assembled will include the information stated under Award Procedures. Questions regarding the guidelines for the award should be directed to Entomological Foundation, 301-459-9082 or [www.entfdn.org](http://www.entfdn.org).

*Deadline*

The application deadline is October 1. Winners will be announced at the annual meeting of the Acarological Society of America.

Norm Fashing  
*College of William and Mary, USA*

## **Our members**

### **New SAAS member, 2004**

Mr Grzegorz Gryziak

PAS Centre for Ecological Researches

Ul. Konopnickiej 1

Dziekanow Lesny

05-092 Lomianki

Poland

Email: [ggryziak@gazeta.pl](mailto:ggryziak@gazeta.pl)

Research interest: Ecology of oribatid mites

Senanayake, Mrs Padmini

Entomology Division

Tea Research Institute

Talawakelle

Sri Lanka

Ph. 94512222601 Email: padmitri98@yahoo.com

Research Interest: Biological Control of the mites

Fashing, Prof. Norman J.

Department of Biology

College of William & Mary

Williamsburg, VA 23187-8795

USA

Crossley Jr Dr D.D.

P. O. Box 903

Athens

GA 30603-0903

USA

### **Change of address for members**

BEATI, Dr Lorenza

Institute of Arthropodology and parasitology

Georgia Southern University

204 Georgia Avenune

P.O. Box 8056

Statesboro GA 30460-8056

USA

### **Acknowledgement**

We thank the following sustaining members for support SAAS in 2004.

BEATI, Dr Lorenza

Casdorph, Dr David G.

Fashing, Prof. Norman J.

Crossley, Jr Dr D.D.

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## Contents of journals

### Acarina

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2004, Volume 11, Issue 2

- Voltzit, O.V. & Keirans, J.E. (2004) A review of African *Amblyomma* species (Acari, Ixodida, Ixodidae). **11**(2), 135–214.
- Tuzovsky, P.V. (2004) Two new species of water mites of the genus *Sperchon* Kramer (Acariformes, Sperchontidae) from Central Asia. **11**(2), 215–219.
- Khaustov, A.A. (2004) Two new species of the mite genus *Elattoma* (Acarina: Heterostigmata: Pygmephoridae) from Russia and the U.S.A.. **11**(2), 221–224.
- Sergeenko, A.L. (2004) A new species of the genus *Cunaxa* (Acarina: Prostigmata: Cunaxidae) from Crimea (Ukraine). **11**(2), 225–229.
- Kolodochka, L.A., Hajiqanbar, H. & McMurtry, J. (2004) A description of unknown male and redescription of female of the rare phytoseid mite *Neoseiulus sugonjaevi* (Wainstein et Abbasova, 1974) (Parasitiformes, Phytoseiidae) from Iran. **11**(2), 231–233.
- Gwiazdowicz, D.J. (2004) Mites (Acari: Mesostigmata) occurring in the nests of birds of prey (*Falconiformes*) and owls (*Stringiformes*). **11**(2), 235–239.
- Khaustov, A.A. & Magovsky, W.L. (2004) New data on tarsonemid mites (Acari: Tarsonemidae) associated with subcortical beetles (Coleoptera) in Ukraine and Russia. **11**(2), 241–245.
- Tolstikov, A.V., Bragin, E.A., Kuzmin, I.V. & Nekrasov, A.L. (2004) Communities of arboreal oribatid mites (Acariformes: Oribatida) of aspen-birch forests of West Siberia. Communication 2. Seasonal dynamics patterns. **11**(2), 247–252.

### Experimental and Applied Acarology

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2004, Volume 33, Issue 1–2

- Umina, P.A. & Hoffmann, A.A. (2004) Plant host associations of *Penthaleus* species and *Halotydeus* destructor (Acari: Penthaleidae) and implications for integrated pest management. **33**(1–2), 1–20.
- Aratchige, N.S., Lesna, I. & Sabelis, M.W. (2004) Below-ground plant parts emit herbivore-induced volatiles: olfactory responses of a predatory mite to tulip bulbs infested by rust mites. **33**(1–2), 21–30.

- Williams, M.E.D.E.C., Kravar-Garde, L., Fenlon, J.S. & Sunderland, K.D. (2004) The relationship between dietary specialism and availability of food and water on cannibalistic interactions among predatory mites in protected crops. **33**(1–2), 31–44.
- Sengonca, C., Khan, I.A. & Blaeser, P. (2004) The predatory mite *Typhlodromus pyri* (Acari: Phytoseiidae) causes feeding scars on leaves and fruits of apple. **33**(1–2), 45–53.
- Aucejo-Romero, S., Gómez-Cadenas, A. & Jacas-Miret, J.-A. (2004) Effects of NaCl-stressed citrus plants on life-history parameters of *Tetranychus urticae* (Acari: Tetranychidae). **33**(1–2), 55–67.
- Pegler, K.P. & Wall, R. (2004) Tactic responses of the parasitic mite, *Psoroptes ovis*, to light and temperature. **33**(1–2), 67–79.
- Brimer, L., Bak, H. & Henriksen, S. Aa. (2004) Rapid quantitative assay for acaricidal effects on *Sarcoptes scabiei* var. *suis* and *Otodectes cynotis*. **33**(1–2), 81–91.
- Kampen, H., Schöler, A., Metzen, M., Oehme, R., Hartelt, K., Kimmig, P. & Maier, W.A. (2004) *Neotrombicula autumnalis* (Acari, Trombiculidae) as a vector for *Borrelia burgdorferi* S.L.?. **33**(1–2), 93–102.
- Hallas, T.E. & Gudleifsson, B.E. (2004) Phenology of *Bryobia cristata* (Acari, Prostigmata) in hayfields in northern Iceland. **33**(1–2), 103–107.
- Szabó, M.P.J., Castagnolli, K.C., Santana, D.A., de Castro, M.B. & Romano, M.A. (2004) *Amblyomma cajennense* ticks induce immediate hypersensitivity in horses and donkeys. **33**(1–2), 109–117.
- Mans, B.J., Venter, J.D., Coons, L.B., Louw, A.I. & Neitz, A.W.H. (2004) A reassessment of argasid tick salivary gland ultrastructure from an immunocytochemical perspective. **33**(1–2), 119–129.
- Leonovich, S.A. & Belozarov, V.N. (2004) Regeneration of Haller's sensory organ in two species of hard ticks of the genus *Haemaphysalis* (Acari: Ixodidae). **33**(1–2), 131–144.
- Rinaldi, L., Otranto, D., Veneziano, V., Milillo, P., Buono, V., Iori, J., Di Giulio, D. & Cringoli, G. (2004) Cross-sectional survey of ticks (Acari: Ixodidae) in sheep from an area of the southern Italian Apennines. **33**(1–2), 145–151.
- Acuña, D.G., Venzal, J., Skewes, O., Contreras, L.R., Arwid Daugschies, Alberto A. Guglielmono. (2004) First record of immature stages of *Amblyomma tigrinum* (Acari: Ixodidae) on wild birds in Chile. **33**(1–2), 153–156.

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- Klimov, P.B. & Oconnor, B.M. (2004) Multivariate discrimination among cryptic species of the mite genus *Chaetodactylus* (Acari: Chaetodactylidae) associated with bees of the genus *Lithurgus* (Hymenoptera: Megachilidae) in North America. **33**(3), 157–182.
- Maraun, M., Heethoff, M., Schneider, K., Scheu, S., Weigmann, G., Cianciolo, J., Thomas, R.H. & Norton, R.A. (2004) Molecular phylogeny of oribatid mites (Oribatida, Acari): evidence for multiple radiations of parthenogenetic lineages. **33**(3), 183–201.
- Auger, P., Kreiter, S., Mattioda, H. & Duriatti, A. (2004) Side effects of mancozeb on *Typhlodromus pyri* (Acari: Phytoseiidae) in vineyards: results of multi-year field trials and a laboratory study. **33**(3), 203–213.
- Eisen, R.J., Eisen, L. & Lane, R.S. (2004) Habitat-related variation in infestation of lizards and rodents with *Ixodes* ticks in dense woodlands in Mendocino County, California. **33**(3), 215–233.
- Yoder, J.A., Benoit, J.B. & Opaluch, A.M. (2004) Water relations in eggs of the lone star tick, *Amblyomma americanum*, with experimental work on the capacity for water vapor absorption. **33**(3), 235–242.
- 2004, Volume 33, Issue 4 Special Issue: PHYTOSEIID LIFE STYLES – On the Occasion of Brian A. Croft's Retirement
- Schausberger, P. (2004) Preface. **33**(4), 5–6.
- McMurtry, J.A. (2004) Brian A. Croft—A tribute. **33**(4), 243–245.
- Croft, B.A., Blackwood, J.S. & McMurtry, J.A. (2004) Classifying life-style types of phytoseiid mites: Diagnostic traits. **33**(4), 247–260.
- Blackwood, J.S., Luh, H.-K. & Croft, B.A. (2004) Evaluation of prey-stage preference as an indicator of life-style type in phytoseiid mites. **33**(4), 261–280.
- Croft, B.A. & Luh, H.-K. (2004) Phytoseiid mites on unsprayed apple trees in Oregon, and other western states (USA): Distributions, life-style types and relevance to commercial orchards. **33**(4), 281–326.
- Croft, B.A., Pratt, P.D. & Luh, H.-K. (2004) Low-density releases of *Neoseiulus Fallacis* provide for rapid dispersal and control of *Tetranychus Urticae* (Acari: Phytoseiidae, Tetranychidae) on apple seedlings. **33**(4), 327–339.

- Yoder, J.A., Benoit, J.B., Rellinger, E.J., Murray, S.A. & Zettler, L.W. (2004) Water balance of a tick-fungus relationship, featuring the life cycle of the fungus *Scopulariopsis brevicanli* (Sacc.) Bainier (Deuteromycota) in a tick host. **30**(2), 93–101.
- Benoit, J.B., Yoder, J.A., Sammataro, D. & Zettler, L.W. (2004) Mycoflora and fungal vector capacity of the parasitic mite *Varroa destructor* (Mesostigmata: Varroidae) in honey bee (Hymenoptera: Apidae) colonies. **30**(2), 103–106.
- Husband, R.W. & Psalmonds L. (2004) A new species of *Eutarsopolipus* (Acari: Podapolipidae) from *Scarites* sp. (Coleoptera: Carabidae) from Argentina. **30**(2), 107–112.
- Halliday, R.B. & Knihinicki, D.K. (2004) The occurrence of *Aceria tulipae* (Keifer) and *Aceria tosichella* Keifer in Australia (Acari: Eriophyidae). **30**(2), 113–118.
- OConnor, B.M. (2004) Taxonomic comments on the genus *Grandiella* Lombardini, 1939 (Acari: Canestriniidae). **30**(2), 119–121.
- Dogan, S. & Ayyildiz, N. (2004) Mites of the genus *Favognathus* (Acari: Cryptognathidae) from Erzurum Province, Turkey. **30**(2), 123–130.
- Saboori, A., Cakmak, I. & Nouri-Gonbalani, G. (2004) A new species of larval *Erythraeus* (*Zaracarus*) (Acari: Erythraeidae) from Turkey. **30**(2), 131–136.
- Saboori, A., Cobanoglu, S. & Bayram, S. (2004) A new species of larval *Erythraeus* (*Erythraeus*) (Acari: Erythraeidae) from Turkey. **30**(2), 137–142.
- Rodriguez-Navarro, S., Torres-Martinez, G. & Olivares-Orozco, J. (2004) Biological control of field bindweed (*Convolvulus arvensis* L.) using *Aceria malherbae* (Acari: Eriophyidae) in Mexico. **30**(2), 153–155.
- Flechtmann, C.H.W. (2004) Eriophyid mites (Acari: Eriophyidae) from Brazilian sedges (Cyperaceae). **30**(2), 157–164.
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- Advertisement. **30**(2), 168.

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- Chant, D.A. & McMurtry, J.A. (2004) A review of the subfamily Amblyseinae Muma (Acari: Phytoseiidae): Part III. The tribe Amblyseini Wainstein, subtribe Amblyseina n. subtribe. **30**(3), 171–228.
- Lekveishvili, M. & Klompen, H. (2004) A new species of Sejidae (Acari: Mesostigmata) from the southern USA. **30**(3), 229–238.

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- Khaustov, A.A. & Husband, R.W. (2004) Three new species of *Archidispus* Karafiat (Acari: Scutacaridae) phoretic on beetles of the genus *Stenolophus* (Coleoptera: Carabidae) from U.S.A. **30**(3), 239–249.
- Haitlinger, R. (2004) *Callidosoma leodegari* n. sp. and new record of *Callidosoma welbourni* Treat, 1985 (Acari: Prostigmata: Erythraeidae) from Argentina and Brazil. **30**(3), 251–254.
- Dogan, S. (2004) *Ledermuelleriopsis rizeiensis* n. sp., a new stigmatid mite (Acari: Stigmatidae) from Rize, Turkey. **30**(3), 255–258.
- DeGrandi-Hoffman, G. & Curry, R. (2004) A mathematical model of *Varroa* mite (*Varroa destructor* Anderson and Trueman) and honeybee (*Apis mellifera* L.) population dynamics. **30**(3), 259–274.
- Benott, J.B., Yoder, J.A., Pizzuli, J.L. & E. Hanson (2004) Chlorophenol profile throughout development of the American dog tick, *Dermacentor variabilis* (Say). **30**(3), 275–277.
- Andre, H.M. (2004) Revalidation of *Oriola* and replacement name from *Meyerella* (Acari: Tydeoidea). **30**(3), 279–280.
- Bignell, D.E., Block, W. & Baker, A.S. (2004) Obituary – John Anthony Wallwork. **30**(3), 281–285.
- News. **30**(3), 286–287.
- Index. **30**(3), 288.

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