

# Acarology Bulletin

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

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## Acarology Bulletin Editors

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## News

**The 2nd Asia-Pacific Conference on Chemical Ecology (APCCE)** will be held August 7-11, 2001 in Penang, Malaysia. Organized by Universiti Sains Malaysia, the conference will cover a wide range of topics including chemical communication system and behaviour, application of bioactive compounds, natural products chemistry, plant and animal interaction, kairomone and allomone, biosensor and chemoreception, allelopathy in agroecosystem, aromatherapy and molecular ecology. The theme of the conference is Current Scenario and Trends in Chemical Ecology. Abstracts must be received by April 30, 2001. For more information, please contact: The Secretariat, Second Asia-Pacific Conference on Chemical Ecology, School of Biological Sciences, Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia. Tel: 604-860-3961, Fax: 604-656-5125, E-mail: apcce@maxis.net.my, website: <http://apaces.bizland.com/P.chtml>.

**The Third International Congress of Vector Ecology**, organized jointly by the Consell Comarcal del Baix Llobregat and the Society for Vector Ecology, will be held in Barcelona, Spain from September 16-21, 2001 in the [Winterthur conference center](#). The organizers are happy to host the Congress in Europe for the first time, and to invite scientists and other professionals from all over the world. The meeting will provide an opportunity to interact with scientists and other professionals from every

continent. Barcelona is centrally located and well-suited to the task of forging a link between the most developed areas and the tropical and subtropical countries in which control of vectors and vector-borne diseases are an important component of public health and environmental health programs. The city is a melting pot and provides a forum for the exchange of scientific, technical and managerial information.

The scientific program will include plenary sessions, symposia and poster sessions. Participation in plenary sessions and symposia is by invitation only, but no invitation is required for poster presentations. You are requested to present your work in poster sessions or ask the Program Committee to consider your participation in symposia.

Symposium titles tentatively proposed are

- A global perspective of Flaviviruses
- Changing role of vector control programs in a rowing society
- Chemoreception and behavioral modification of vector
- Microbial agents and vector control
- Insect demographics
- Molecular genetics of arthropod vectors
- Advances in remote sensing and GIS
- Vector systematics
- Modelling and new quantitative approaches
- Host-parasite vector interactions
- Update on fundamentals of parasitic diseases

For more information, please contact: R. Eritja or C. Aranda

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**The 2nd African Acarology Symposium** will be held at International Centre of Insect Physiology and Ecology (ICIPE) in Nairobi, Kenya, December 3-9, 2001. The African Acarology Association (AAA) and the Association of Kenyan Acarologists (AKA) will jointly host the symposium. The Conference Theme is "Novel approaches to tick and mite management in the New Millennium" The scientific program will consist of a keynote address and presentations of invited and contributed papers. All relevant areas of Acarology will be covered including Biology of ticks and mites (ecology and biodiversity, systematics and taxonomy); Mites in agriculture (mites as pests of plants, natural enemies of pest mites, biological and integrated control); Ticks and mites as problems of humans and livestock (human and livestock diseases, vector competence, vaccine development, chemotherapy and drug resistance).

If you are interested to attend or present a paper, please contact:

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**The 4th International Conference on Ticks and Tick-Borne Pathogens** (TTP 4) will be held during July 20-27, 2002 at The Banff Centre, Banff National Park, in the heart of the Canadian Rocky Mountains. This meeting continues the tradition established in 1992 at the first Conference in St. Paul Minnesota, USA, and developed subsequently at Kruger National Park, South Africa (1995), and the High Tatra Mountains, Slovakia (1999). The TTP International Conferences provide a forum for the exchange of knowledge on all aspects of tick biology, tick control mechanisms and all disease agents of medical and veterinary importance for which ticks are vectors. For more details, please check the conference web page at <http://www.biology.ualberta.ca/courses.htm> or contact:

#### **TTP 4 CONFERENCE SECRETARIAT**

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**The 15th International Plant Protection Convention (IPPC)** will be held in July, 2003 in Beijing, China.

The meeting will focus on the current progress in the plant protection sciences and technology, and its foreseeable development in the 21st century. To meet the new challenge facing plant protection in the new millennium, the tentative theme of the Congress is "The First Great Gathering for Plant Protection in 21st Century". The scientific program will include opening and closing lectures, plenary lectures, symposia, workshops, and poster sessions. The following are topics:

1. Extension of IPM Strategy in 21st Century
2. Resistance of Crops to Pests
3. Biological control
4. Chemical Pesticides (new products, application techniques, resistance, pesticide management, etc.)
5. Biotechnology for Plant Protection
6. Plant Protection and Environment
7. Information Technology in Plant Protection and Pest Prediction
8. Ecological Regulation and Control of Farmland Pests
9. Plant Quarantine
10. Relationship and Co-evolution of Crops, Pests and Natural Enemies
11. Non-chemical Pest Control Techniques
12. Grain Crop Pest Management
13. Commercial Crop Pest Management
14. Orchard Pest Management
15. Forest Pest Management
16. Vegetable Crop Pest Management
17. Grassland Pest Management
18. Flowers and Lawn Pest Management
19. Farmland Weed Management
20. Farmland Rodent Management

## 21. Pest Management for Pre-growing and Post-harvesting

The official language of the Congress is English. For further information, please contact Ms. **Liping WEN**, Secretariat, 15th IPPC, C/O Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing 100094 China. Tel: 0086 10 62815913, Fax: 0086 10 62815913, Email: [ippc2003@ipmchina.net](mailto:ippc2003@ipmchina.net)

**The 9th meeting of the Acarological Society of Japan** was held from October 12 to 14, 2000 at Miura city, Kanagawa prefecture. The chairman of the organizing committee is Prof. **Jun-ichi Aoki**, an oribatid mite expert at National Yokohama University. More than one hundred Japanese and a few foreign acarologists attended the meeting. Among those, about 60 meeting participants gave presentations. The presentations covered all fields in Acarology such as ecology, physiology, taxonomy, molecular biology, pheromone, and so on. The executive committee also elected Prof. **Yasumasa Kuwahara** of Kyoto University as the next president serving a three-year term starting from January 1, 2001. Three SAAS Japanese members, Prof. **Shozo Ehara**, Prof. **Akio Takafuji** and Dr. **Tetsuo Gotoh**, and Dr. **Xiaoyue Hong** of China attended the meeting.

Prof. **Tinghuan Wen** of Medical Center of Fudan University (Shanghai,

China) attended the International Congress of Allergology and Clinical Immunology in Australia in mid October 2000. After the Congress, he visited Dr. Zhi-Qiang Zhang and the New Zealand Arthropod Collection in Auckland from 29 October to 4 November. During his stay in Auckland, he gave a lecture on dust mites and mite allergy at Landcare Research. He also discussed with Dr. Zhang matters related to *Systematic & Applied Acarology* and SAAS, and explored possibilities for collaboration between the two.

Dr. **Renjie Hu** attended the 32nd Annual Conference of the Society for Vector Ecology held at University of California at Berkeley from October 15 to 18, 2000. The conference provided great opportunity for vector ecologists and other professionals to exchange research finding and ideas.

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## New Books

**Gammaside and Chigger Mites of Guizhou** by Gu, Yiming & Wang, Jusheng (1999) Guiyang, Guizhou Science and Technology Publishing House. 344pp. ISBN 7-80584-838-6

**Allergy as a Reason of Growth of Diaseases to the Beginning of the Third Mellenium** by R.D. Zhaxylykova (1999) Almcty, Akil Litabi. 192pp.

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## Contents of Journals

**Acarina - Russian Journal of Acarology**  
**Vol. 7, No. 2, 1999**

**Bochkov, A.V., Mironov, S.V., and Fain A.** Phylogeny and host-parasite relationships of the mite family Harpirhynchidae (Acari, Prostigmata). 69-87

**Skoracki, M., and Dabert J.** A new species of the genus *Syringophilopsis* Kethley, 1970 (Acari: Prostigmata: Syringophilidae) from the tree pipit *Anthus trivialis* (Passeriformes: Motacillidae). 89-92

**Klimov, P.B.** A description of a new genus, *Umakefeq* gen.n., including three new species of mycetophagous acarid mites (Acariformes, Acaridae) from Eastern Palaearctic. 93-106

**Khaustov, A.A.** A new species of the genus *Schizocyrtillus* (Acarina: Mesostigmata: Celaenopsidae) from Crimea. 107-109

**Alekseev, A.N.** The pathogen-vector interface: a history of paradigms. 111-120

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**Khaustov, A.A.** Bembidiacaridae, a new family of mites (Acari: Heterostigmata) associated with carabid beetles of the genus *Bembidion* (Coleoptera: Carabidae). 3-8

**Mironov, S.V.** A review of the feather mite genus *Scutomegninia* Dubinin, 1951 (Acarina: Analgoidea: Avenzoariidae). 9-58

**Skoracki, M., and Dabert, J.** *Syringophilopsis albicollisi* sp.n., a new species of the quill mite of the family Syringophilidae (Acari: Prostigmata). 59-63

**Bayartogtokh, B.** Two new species of oribatid mites of the genus *Epidamaeus* (Acari: Oribatida: Damaeidae) from Mongolia. 65-78

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**Belczewski, R. and Harmsen, R.** The effect of non-pathogenic phylloplane fungi on life-history traits of *Tetranychus urticae* (Acari: Tetranychidae). 257-270

**Mans, B.J., Coetzee, J., Louw, A.I., Gaspar, A.R.M., and Neitz, A.W.H.** Disaggregation of aggregated platelets by apyrase from the tick, *Ornithodoros savignyi*. 271-282

**Sonenshine, D.E., Allan, S.A., Peter, T.F., McDaniel, R., and Burridge, M.J.** Does geographic range affect the attractant aggregation attachment pheromone of the tropical bont tick, *Amblyomma variegatum*? 283-299

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**Gotoh, T. and Gomi, K.** Population dynamics of *Tetranychus kanzawai* (Acari: Tetranychidae) on Hydrangea. 337-350

**Saito, Y.** Do kin selection and intra-sexual selection operate in spider mites? 351-363

**Navajas, M., Tsagkarakov, A., Lagnel, J., and Perrot-Minnot, M.J.** Genetic differentiation in *Tetranychus urticae* (Acari: Tetranychidae): polymorphism, host races or sibling species? 365-376

**Takabayashi, J., Shimoda, T., Dicke, M., Ashihara, M., and Takafuji, A.** Induced response of tomato plants to injury by green and red strains of *Tetranychus urticae*. 377-383

**Osakabe, M., Hinomoto, N., Toda, S., Komazaki, S., and Goka, K.** Molecular cloning and characterization of a microsatellite locus found in an RAPD marker of a spider mite, *Panonychus citri* (Acari: Tetranychidae). 385-395

**Ridsdill-Smith, T.J. and Pavri, C.C.** Feeding life style of redlegged earth mite, *Halotydeus destructor* (Acari: Penthaleidae), in pastures and the role of broad-leafed weeds. 397-414

**Maeda, T., Takabayashi, J., Yano, S., and Takafuji, A.** Effects of light on the tritrophic interaction between kidney bean plants, two-spotted spider mites and predatory mites, *Amblyseius womersleyi* (Acari: Phytoseiidae). 415-425

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**Toyoshima, S., Nakamura, M., Nagahama, Y., and Amano, H.** Process of egg formation in the female body cavity and fertilization in male eggs of *Phytoseiulus persimilis* (Acari: Phytoseiidae). 441-451

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**Aguirre, D.H., Cafrune, M.M., and Guglielmo, A.A.**

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**Yano, Y., Takada, N., and Fujita, H.** Ultrastructure of spotted fever group rickettsiae in tissues of larval *Amblyomma testudinarium* (Acari: Ixodidae). 181

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**Haitlinger, R.** A new genus of the family Heterocoptidae (Acari, Astigmata).

**Saboori, A.** Description of the larva, deutonymph and adult of a new *Balaustium* (Acari: Erythraeidae) from Iran.

**Karimi Irvanlou, J.S. & Saboori, A.** A new species of *Leptus* (Acari: Erythraeidae) from Iran.

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 Pyemotoidea, Pygmephoroidae.

### Address change

Due to the education system reform, some  
 Chinese members of SAAS have their new  
 addresses, although they stay at the original  
 place. The following is updated addresses:

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### Acknowledgments

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the following  
sustaining members for  
financial contributions  
to SAAS:*

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A. Christian (Germany)  
Jianrong Gao (USA)  
J.A. McMurtry (USA)  
Tinghaun Wen (China)  
Zhi-Qiang Zhang (New Zealand)

# Systematic & Applied Acarology Society

Application for membership

*Systematic and Applied Acarology Society* (SAAS) aims at promoting the development of acarology and fostering cooperation among acarologists in different parts of the world. Anyone interested in the study of mites and ticks is welcome to join SAAS. There is no fee for basic membership. Members can publish free of page charge in *Systematic and Applied Acarology* (SAA), can participate in elections of SAAS officers and enjoy 25% discount in page charge for publishing in the rapid journal *Systematic and Applied Acarology Special Publications* (SAASP). Members who volunteer contributions of 10 or 35 US dollars becomes sustaining members; those contribute 10US\$ receive printed version of *Acarology Bulletin* (AB), those contribute 35\$A receive SAA and AB. Electronic versions of AB and SAASP are available online for free: [www.nhm.ac.uk/hosted\\_sites/acarology/saas/](http://www.nhm.ac.uk/hosted_sites/acarology/saas/)

Name: \_\_\_\_\_ Title (Prof / Dr / Mr / Mrs / Miss /Ms) \_\_\_\_\_  
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Research Interest: \_\_\_\_\_

Member type \_\_\_Basic; free  
 \_\_\_Sustaining; contribution of 10 US\$\_\_ (receive AB)/35US\$ \_\_\_ (AB & SAA)  
 Payment should be made in US\$ to *Systematic & Applied Acarology Society* . You also pay in *other major convertible currencies*.

*Please send the completed application form and payment (if any) to :*

Dr Ting-Kui Qin  
 Plant Quarantine Policy Branch  
 Australian Quarantine and Inspection Service  
 GPO Box 858 Canberra, ACT 2601  
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ACAROLOGY BULLETIN (ISSN 1361-8091) is a newsletter of the Systematic and Applied Acarology Society (c/o Dr. Anne Baker, Dept. of Entomology, The Natural History Museum, London SW7 5BD, UK). It is published in four issues in 2001 (January, April, July and October) and is distributed free on the internet and to sustaining members of SAAS. All correspondence should be sent to the Editor Dr. Renjie HU, California Department of Health Services, 2151 Convention Center Way, Suite 218B, Ontario, CA; 91764, USA; Tel: (909) 937-3440; Fax: (909) 937-3456; E-mail: [drrenjie@hotmail.com](mailto:drrenjie@hotmail.com). Non-member subscribers should order the journal from Dr Ting-Kui Qin, Plant Quarantine Policy Branch, Australian Quarantine and Inspection Service, GPO Box 858, Canberra, ACT 2601, Australia. Subscription rate for vol. 6 in 2000 is \$10 plus \$6 for post by air.