

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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Acarology and Member News

The XXI International Congress of Entomology will be held in Iguassu Falls, Brazil, August 20-26, 2000. The convenors for **Acarology Symposia** are **Gary R. Mullen**, Department of Entomology and Plant Pathology, Auburn University, AL 36849, USA and **Gilberto de Moraes**, Universidade de Sao Paulo, Escola Superior de Agricultura, "Luiz de Queiroz," Piracicaba, Brazil. The following are the detailed schedules:

Symposium 1: Dispersal in the Acari

Organizers and Moderators:

Marilyn A. Houck, Department of Biological Sciences, Texas Tech University, USA

Maurice W. Sabelis, Department of Pure & Applied Ecology, Section Population Biology, Kruislaan 302, 1098 SM, Amsterdam, The Netherlands.

Introduction: **M. A. Houck** (5-minutes)

Genetic signatures of dispersal: a case study in mites. **Maria Navajas**, INRA, Laboratoire de Modélisation et Biologie Evolutive 488, rue Croix de Lavit, 34090 Montpellier, France

Dispersal and spread of exotic phytoseiids in Africa. **Rachid Hanna**, International Institute of Tropical Agriculture IITA Benin Station 08 B.P. 0932 Cotonou Benin, and **J. S. Yaninek**, USDA/CSREES, Aerospace Building

#837, 901 D Street SW, Washington DC 20250-2220, USA.

Dispersal of phytoseiid predatory mites and the consequences for local predator-prey dynamics. **B. Pels** and **Maurice W. Sabelis**, Department of Pure & Applied Ecology, Section Population Biology, Kruislaan 302, 1098 SM, Amsterdam, The Netherlands.

Viruses, mites, and dispersal: a challenge for the millennium. **Marilyn A.**

Houck, Department of Biological Sciences, Texas Tech University, Lubbock, TX 79409-3131, USA.

The role of herbivore-induced plant volatiles in dispersal and foraging of predatory phytoseiid mites. **Maurice W. Sabelis**, **Arnie Janssen**, and **Jan Bruin**, Department of Pure & Applied Ecology, Section Population Biology, Kruislaan 302, 1098 SM, Amsterdam, The Netherlands.

Evolution of parasitism in the Astigmata:

The role of phoresy. **Marilyn A.**

Houck, Department of Biological Sciences, Texas Tech University, Lubbock, TX 79409-3131, USA.

Summation: **M. W. Sabelis**

Symposium 2: Molecular, Physiological and Biochemical Processes in Acarines

Organizers and Moderators:

J. R. Sauer, Oklahoma State

University, Stillwater, OK 74078, USA.
Lewis B. Coons, University of
 Memphis, Memphis, TN 38152, USA

Introduction: Lewis B. Coons (5 min.)

Phytoseiids as manipulators of sex: Wolbachia, parahaploidy and genomic imprinting. Majorie Hoy, University of Florida, Gainesville, FL 32608, USA.

Evolution at warp speed? DNA and basal Mesostigmata. Hans Klompen, The Ohio State University, Columbus, OH 43212, USA.

Host immune response to Sarcoptes scabiei and induced immunity. Larry Arlian and Marjorie Morgan, Wright State University, Dayton, OH 45435.

Characterization of an ecdysiotropic neuropeptide (EtNH) from the ixodid Amblyomma hebraeum. H. H. Rees, L. O. Lomas, J. H. Chen and P. C. Turner, University of Liverpool, Liverpool, U.K.

A novel anti-inflammatory factor in the saliva of Amblyomma americanum. Alan S. Bowman, University of Aberdeen, Aberdeen, Scotland, UK, **J. S. Tucker** and **J. R. Sauer**, Oklahoma State University, Stillwater, OK 74078, USA.

Prostaglandins in tick salivary gland physiology. John R. Sauer, Oklahoma State University, OK 74078, USA, and **A. S. Bowman**, University of Aberdeen, Scotland, UK.

The 2000 Annual Meeting of the Entomological Society of America will be held at the Palais des Congrès de Montréal, the city's convention centre, Montréal, Canada during December 3-7. It will take place in conjunction with La Société d'Entomologie du Québec and the Entomological Society of Canada.

New Books

Petanovic, R. & Stankovic, S. (1999) **Catalog of the Eriophyoidea (Acari: Prostigmata) of Serbia and Montenegro**. Special Issue of Acta Ent. Serb., Beograd. 143 pp.

Baker, A. S. (1999) **Mites and ticks of domestic animals. An identification guide and information source**. London: The Stationery Office, 240pp. Wire bound with soft wrap-around cover. ISBN 0 11 310049 3. Price: 32.50 pounds sterling. This book has a worldwide coverage, and is aimed at workers with or without previous acarological knowledge. It includes introductory chapters on collecting and preparing specimens for study, mite and tick morphology and also has a pictorial key to the common families and genera associated with domestic animals (companion animals, livestock, poultry, cage birds, honey bees). An extensive bibliography of taxonomic and other literature was compiled to help users locate information on those Acari that might be

found with domestic animals. The bulk of the book (ca. 150 pages) is taken up by morphological descriptions (illustrated by photomicrographs) of the species dealt with. Although the Acari included in the book are those associated with domestic animals, many are also of public health importance. More details can be obtained from The Natural History Museum's web site (<http://www.nhm.ac.uk>) - search for 'Publishing division' and choose 'New Publications' or 'Catalogue'. The publisher's homepage for ordering is <http://www.tsonline.co.uk>.

Coons, L. B. & Alberti, G. (1999) **Acari - Ticks**. In: Harrison, F. W. (ed.) **Microscopic Anatomy of Invertebrates**. Vol. 8B. New York, Wiley & Sons, Inc.: 267-514 (+ index I1-I49).

Alberti, G. & Coons, L. B. (1999) **Acari - Mites**. In: Harrison, F. W. (ed.) **Microscopic Anatomy of Invertebrates**. Vol. 8C. New York, John Wiley & Sons, Inc.: 515-1265 (index included).

Denmark, H., G. Evans, H. Aguilar, C. Vargas and R. Ochoa. (1999) **Phytoseiidae of Central America**. Indira Publishing House, P.O. Box 250456, West Bloomfield, Michigan 48325-0456, USA 125 pp.

Contents of Journals

Acarologia
Vol. 40, No. 1, 1999

Zhu, Z. *Ehrlichia*-like microorganisms in the salivary glands of unfed *Ixodes ricinus* (Acari: Ixodidae) nymphs.

Uspensky, I. & Ioffe-Uspensky, I. The relationship between engorged female weight and egg number in Ixodid ticks: a biological interpretation of linear regression parameters.

Momen, F. & El-Borolossy, M. Suitability of the citrus brown mite, *Eutetranychus orientalis* as prey for nine species of phytoseiid mites (Acari : Tetranychidae, Phytoseiidae).

El-Banhawy, E.M., El-Sawaf, B.M., Osman, H.O., & Afia, S.I. Effect of type of prey on the life parameters of the soil predacious mite, *Gamasiphis tylophagous* (Mesostigmata: Ologamasidae), a predator of the citrus parasitic nematode, *Tylenchulus semipenetrans* (Tylenchida: Tylenchulidae)

Abou-Awad, B.A., El-Sawaf, B.M., & Abdelkader, A.A. Life history and life table of *Pronematus ubiquitus* (McGregor) as a predator of eriophyoid mites in Egypt (Acari: Tydeidae)

Coineau, Y. & Davis, A.L. Le premier hymenoptere endoparasite de d'acariens actinotrichida: *Globulencyrtus politus* (Hymenoptera : Encyrtidae).

Fain, A., Bochkov, A.V. &

Mironov, S.V. A contribution to the systematics of the mite family Harpirhynchidae (Acari: Cheyletoidea).

Sanchez-Covisa, A., Rodriguez-Rodriguez, J.A., De la Torre, F., & Garcia-Robana, J.C. Faune d'acarions de la poussiere domestique dans l'Ile de Tenerife.

Agratorres, I.M., Pereira-Lorenzo, A., & Fernandez-Fernandez, I. Population dynamics of house dust mites (Acari: Pyroglyphidae) in Santiago de Compostela (Galicia, Spain).

Yeruham, I., Rosen, S., & Hadani, A. Hedgehogs as a possible reservoir of sarcoptic mange for wild and domestic ruminants.

Schatz, H. & Palacios-Vargas, J.G. Microzetidae (Acari: Oribatida) from the Galapagos Islands.

Mondal, B.K. & Kundu, B.G. A new species of the genus *Machadobelba* (Acari: Oribatei) from Darjeeling, West Bengal, India.

Mondal, B.K. & Kundu, B.G. A new genus of Carabodidae (Acari: Oribatei) from Darjeeling, West Bengal, India.

Bayartogtokh, B. New oribatid mites (Acari: Oribatei) of the genera *Dissorhina* and *Ceratozetoides* from Mongolia.

Experimental and Applied Acarology

Vol. 23, No. 12, 1999

Sparagano, O.A.E., Allsopp, M.T.E.P., Mank, R.A., Rijpkema, S.G.T., Figueroa, J.V., & Jongejan, F. Molecular detection of pathogen DNA in ticks (Acari: Ixodidae): A review. 929-960.

Madder, M., Speybroeck, N., Brandt, J., & Berkvens, D. Diapause induction in adults of three *Rhipicephalus appendiculatus* stocks. 961-968.

Wang, H., Kaufman, W.R., & Nuttall, P.A. Molecular individuality: polymorphism of salivary gland proteins in three species of ixodid tick. 969-975

Van Es., R.P., Gettinby, G., & Hillerton, J.E. Models of temporal variation in questing activity in individuals of *Ixodes ricinus* (Acari: Ixodidae). 977-986

Goldarazena, A. & Zhang, Z.-Q. Seasonal abundance of *Allothrombium monochaetum* and *Allothrombium pulvinum* in Navarra-Nafarroa (northern Spain), with notes on larval host preference and rate of parasitism. 987-993

Lester, P.J., Thistlewood, H.M.A., Marshall, D.B., & Harmsen, R. Assessment of

Amblyseius fallacis (Acari: Phytoseiidae) for biological control of tetranychid mites in an Ontario peach orchard. 995-1009

Chatzivasileiadis, E.A., Boon, J.J., & Sabelis, M.W.

Accumulation and turnover of 2-tridecanone in *Tetranychus urticae* and its consequences for resistance of wild and cultivated tomatoes. 1011-1021
Author Index. 1023-1025

Acarina (Russian Journal of Acarology)

Vol. 6, No. 1-2, 1998

Bochkov, A.V. & Mironov, S.V. Quill mites of the family Syringophilidae Lavopierre, 1953 (Acariformes: Prostigmata) parasitic on birds (Aves) of the fauna of the former USSR. 3-16 [in English]

Klimov, P.B. *Michaelopus longiretinalis* sp. nov. (Acari, Acaridae), a new species of acaroid mite associated with beetle *Onthophagus lenzi* (Coleoptera, Scarabaeidae) from South Korea. 17-19 [in English].

Mironov, S.V. A new feather mite genus of the subfamily Alloptinae (Analgoidea: Alloptidae) from the ibisbill (Charadriiformes: Ibidorhynchidae). 21-24 [in English].

Khaustov, A.A. A review of mites of the genus *Pseudotarsonemoides* (Acari: Heterostigmata: Tarsonemidae)

of Crimea, with description of two new species. 25-30 [in English].

Bayartogtokh, B. A new species of oribatid mites (Acariformes: Oribatida) from Mongolia. 31-33 [in English].

Chirov, P.A. & Bochkov, A.V. *Ornithocheyletia mironovi* sp.n. (Acari: Cheyletidae), a new species of parasitic mites of the bank swallow from Kirghizia. 35-36 [in English].

Khaustov, A.A. A new species of *Pyemotes* (Acari: Heterostigmata: Pyemotidae) associated with bark beetles (Coleoptera: Scolytidae) from Crimea. 37-39 [in English].

Dubinina, H.V. The fur mites (Acari: Astigmata: Listrophoridae) of the fauna of Russia and adjacent countries. 41-45 [in English].

Zabludovskaya, S.A. Ereynetid mites (Acariformes: Tydeoidea: Ereynetidae) parasitizing the respiratory ways of birds (Aves: Anseriformes, Charadriiformes, Passeriformes) of the European-Siberian subregion of the Palaearctic. 47-50 [in English].

Ashfaq, M., Sarwar, M., & A. Parvez. A description of two new species (hypopi) of the genus *Acotyledon* (Acariformes: Acaridae) from Pakistan. 51-57 [in English].

Bagnjuk, I.G., Sukhareva, S.I., & Shevchenko V.G. Major trends

in the evolution of four-legged mites as a specialized group (using families Pentasetacidae Shev., Nalepellidae Roiv. and Phytoptidae Murray (Acari: Tetrapodili) as examples). 59-76 [in Russian, with extended English summary].

Vasilieva, I.S. Lyme disease parasitosis system, the state of the problem. Communication II. Vertebrate as hosts of ticks and reservoirs of pathogens. 77-100 [in Russian, with English summary].

Vol. 5, No. 1-2, 1997

Mironov, S.V. A new feather mite species of the genus *Bychovskiota* (Analgoidea: Avenzoariidae) from the masked lapwing (Aves: Charadriidae: *Vanellus miles novaehollandiae*). 13-17 [in English].

Bochkov, A.V. & Fain, A. Taxonomy of mites of the subgenus *Radfordia* Ewing, 1938 (Acari: Myobiidae). 19-28 [in English]

Dubinina, H.V. The external morphology and some aspects of evolution of the parasitic mite *Otodectes cynotis* (Hering, 1838) (Acari: Prostigmata, Psoroptidae) causing the otodectis mange in carnivore mammals (Carnivora). 29-36 [in English].

Bhattacharya, A.K., Sanyal, A.K., & Bhattacharya, T. Three new ascid mites (Acarina: Mesostigmata:

Ascidae) from a nest of five-striped squirrel *Funambulus pennanti* Wroughton in West Bengal, India. 37-43 [in English].

Bochkov, A.V. Mites of the family Myobiidae (Acari: Prostigmata) parasitic on *Lipotyphla* (Mammalia: Insectivora) in the fauna of the former USSR. 45-62 [in English].

Belozеров, V.N. & Kopyj, G. Changes in population structure of an argasid tick *Argas arboreus* nesting season of its host, the cattle egret *Bubulcus ibis*, in South Africa. 63-68 [in English].

Klimov, P.B. New data on the fauna and biology of acarid mites (Acari, Acaridae) from the Far East. 69-72 [in English].

Bochkov, A.V. & Mironov, S.V. On a taxonomy of predatory mites of the genus *Neoeucheyla* Radford, 1950 and related genera (Acari: Cheyletidae). 73-78 [in English].

Shtanchaeva, U.Ya. Oribatid mites (Acari: Oribatida) of soil cover and epiphytic lichens of a pine forest (in Russian). 79-85 [in Russian, with English summary].

Podboronov, V.M. & Podboronov, A.M. Immunity of ticks. 87-89 [in Russian, with English summary].

Dobrotvorsky, A.K., Moshkin,

M.P., Panov, V.V., & Mak, V.V. Influence of the taiga tick *Ixodes persulcatus* Schulze, 1930 (Acari: Ixodidae) on humoral immune responsiveness of red voles *Clethrionomys rutilus* Pallas, 1779 and field mice *Apodemus agrarius* Pallas, 1771 (Rodentia: Cricetidae and Muridae) in natural populations. 91-98 [in English].

Vol. 4, No. 1-2, 1996

Bochkov, A.V. Mites of the family Myobiidae (Acariformes: Prostigmata) parasitic on bats (Mammalia: Chiroptera) of the fauna of Russia and adjacent countries. 3-26 [in English].

Mironov, S.V. & Kopij, G.

Three new species of the feather mite family Proctophyllodidae (Acarina: Analgoidea) from some South African passerines (Aves: Passeriformes). 27-34 [in English].

Dubinina, H.V. & Bochkov, A.V. Pleistocene mites (Acariformes) from the narrow-skulled vole *Microtus gregalis egorovi* Feigin (Rodentia: Arvicolinae). 35-38 [in English].

Bochkov, A.V. *Hesperomyobia* (Acari: Myobiidae: Radfordia), a new subgenus of myobiid mites from rodents of the family Hesperomyiidae (Rodentia). 39-42 [in English].

Bochkov, A.V. & Malikov, V.G. *Eucheyletiella faini* sp.n. (Acari:

Cheyletidae), a new species of parasitic mites from *Ochotona rufescens* (Gray) (Lagomorpha, Ochotonidae). 43-48 [in English].

Naumov, R.L. Attractivity of mammal hair for female taiga ticks *Ixodes persulcatus* Schulze. 49-52 [in English].

Vasilieva, I.S. & Naumov, R.L. Lyme disease parasitosis system, the state of the problem. Communication 1. Pathogenes and vectors. 53-76 [in Russian, with English summary].

Podboronov, V.M. The modelling of mono and binary bacterial burden using ticks *Hyalomma asiaticum*. 77-80 [in Russian, with English summary].

Vol. 3, No. 1-2, 1995

Tolstikov, A.V. & Lyashchev, A.A. On the damaeid mite fauna (Acariformes, Oribatei, Damaeidae) of Central Asia. Genus *Belba* Heyden, 1826. I. Redescription of two Bulanova-Zakhvatkina's species. 3-16 [in English].

Tolstikov, A.V. On the damaeid mite fauna (Acariformes, Oribatei, Damaeidae) of Central Asia. Genus *Belba* Heyden, 1826. II. Description of two new species. 17-30 [in English].

Bagnjuk, I.G., Sukhareva, S.I., & Shevchenko V.G. Analysis of the genus *Trisetacus* Keifer as a key of the family Nalepellidae Roiv. (Acari, Tetrápodili). 31-66 [in Russian, with

English summary].

Shevchenko, V.G. & Shaudvitene I.G. *Vasates milevskii* sp.n. (Acari, Tetrápodili), a new free-living mite from *Betula pubescens* Ehrh. 67-72 [in English].

Dubinina, H.V. & Alekseev A.N. Mite hypopi on ticks. 73-84 [in English].

Naumov, R.L. Distribution irregularity of imago *Ixodes persulcatus* in west Sayan mountain forests. 85-98 [in Russian, with English summary].

Dubinina, H.V., Bochkov, A.V., & Javrujan J.G. Mites of the family Myobiidae (Acariformes) - ectoparasites of bats of Armenia. 99-104 [in English].

Stanyukovich, M.K. *Spinturnix bregetovae* sp.n. (Gamasina: Spinturnicidae), a new species of parasitic mites from bats. 105-122 [in English].

Vol. 2, No. 1-2, 1994

Kudryashova, N.I. Revision of the subgenus *Odontacarus* (Acariformes, Trombiculidae) of the Palearctic. 3-46 [in English].

Sukhareva, S.I. Family Phytoptidae Murray, 1877 (Acari, Tetrápodili), its consisting, structure and suggested ways of evolution. 47-72 [in Russian, with extended English summary].

Bochkov, A.V., Mironov, S.V., & Gorgol V.T. *Ornithocheyletia*

phylloscopi sp.n. (Acariformes, Cheyletidae), new species of parasitic mite from the willow warbler. 73-80 [in English].

Dubinina, E.V. & Alekseev, A.N. Skeleton changes in the oribatid mites under the influence of the heavy metal ions accumulation. 81-94 [in English].

Eidelberg, M.M. A new species of *Caraboacarus* (Acari, Caraboacaridae) from *Calosoma denticolle* (Carabidae) from Russia. 95-102 [in English].

Kharadov, A.V. A new species of the genus *Montivagum* (Acariformes, Trombiculidae) from Kyrgyzstan. 103-108 [in English].

Balde, M.C. & Konstantinov, O.K. A case of gynandromorphism in *Amblyomma variegatum* Fabricius (Acari, Ixodidae) in the republic of Guinea. 109-112 [in English].

Systematic & Applied Acarology Special Publications

No. 4 (April 2000)

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An overview of occurrence, development and damage of bamboo mites and their integrated management in Fujian, China. Y.-X. ZHANG, Z.-Q. ZHANG, Q.-Y. LIU, J.-Z. LIN & J. JI pp. 9-17

Mites of *Schizotetranychus* (Acari:

Tetranychidae) from moso bamboo in Fujian, China. Z.-Q. ZHANG, Y.-X. ZHANG & J.-Z. LIN pp. 19-35

Taxonomic notes on *Stylophoronychus* (Acari: Tetranychidae) with new data for *S. baghensis* infesting moso bamboo in Fujian, China. Z.-Q. ZHANG, Y.-X. ZHANG & J.-Z. LIN. pp. 37-47

Raphignathoid mites on bamboo from Fujian, China (Acari: Prostigmata). Q.-H. FAN, Y.-X. ZHANG & Q.-Y. LIU pp. 49-68

Discovery of the genus *Abalakeus* (Acari: Erythraeidae) in China and description of a new species from bamboo forests in Fujian, China. Z.-Q. ZHANG, Y.-X. ZHANG & J.-Z. LIN pp. 69-80

Checklist of mites from moso bamboo in Fujian, China. J.-Z. LIN, Z.-Q. ZHANG, Y.-X. ZHANG, Q.-Y. LIU & J. JI pp. 81-92

Causes of mite pest outbreaks in bamboo forests in Fujian, China: analyses of mite damage in monoculture versus polyculture stands. Y.-X. ZHANG, Z.-Q. ZHANG, L.-X. TONG, Q.-Y. LIU, & M.-G. SONG pp. 93-108

Potential of *Amblyseius cucumeris* (Acari: Phytoseiidae) as a biocontrol agent against *Schizotetranychus nanjingensis* (Acari: Tetranychidae) in Fujian, China. Y.-X. ZHANG, Z.-Q. ZHANG, J.-Z. LIN & J. JI pp. 109-24

Key factors affecting populations of *Schizotetranychus nanjingensis*, *Aponychus corpuzae* and *Aculus bambusae* in Fujian bamboo forests during different seasons: an analysis using methods of grey sequence. Y.-X. ZHANG, J.-Z. LIN, Z.-Q. ZHANG, M.-G. SONG, J. JI & Q.-Y. LIU pp. 125-160

Systematic & Applied Acarology Vol. 5 (2000) Forthcoming papers

Observations on the genus *Polyaspinus* Berlese 1916 (Acari: Trachytidae). J. BLOSZYK & R. B. HALLIDAY

Description of the immature life stages of *Tenuipalpus heveae* Baker, 1945 (Acari, Prostigmata, Tenuipalpidae). K.J.B. PONTIER & C.H.W. FLECHTMANN.

Four new species of *Leptus* Latreille (Acari: Prostigmata: Erythraeidae) from Central America. R. HAITLINGER

Biodiversity and dynamics of oribatid mites in rice paddies. QINGTIAN LI, HUIFU WANG & LI ZHENG

Epidemiological study of autumn-winter type scrub typhus in a new endemic focus of Fei County, Shandong Province, China. YUNXI LIU, ZHANQING YANG, QINYONG WU et al.

Temperature-dependent development and reproduction of the spider mite, *Schizotetranychus bambusae* Reck (Acari: Tetranychidae) HUAI LIU, ZHAO ZHIMO, JINJUN WANG et al.

New members

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Systematic & Applied Acarology Society

Application for membership

Systematic and Applied Acarology Society (SAAS) aims at promoting the development of acarology in China 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 16 or 52 Australian dollars becomes sustaining members; those contribute 16\$A receive printed version of *Acarology Bulletin* (AB), those contribute 52\$A receive SAA and AB. Electronic versions of AB and SAASP are available online for free: www.nhm.ac.uk/hosted_sites/acarology/saas/

Name: _____ Title (Prof / Dr / Mr / Mrs / Miss /Ms) _____

Address: _____

Telephone: Business: _____ Home: _____
FAX : _____ E-mail: _____

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Research Interest: _____

Member type Basic; free
 Sustaining; contribution of 16 \$A (receive AB) or 52\$A (AB & SAA)

Payment should be made in Australian dollars to *Systematic & Applied Acarology Society* .
Please add the amount equal to 9 \$A if you 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, Australia.

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