

Acarology Bulletin

Newsletter of the **SYSTEMATIC & APPLIED ACAROLOGY SOCIETY**

A Society Of Chinese Acarologists

THE SYSTEMATIC AND APPLIED ACAROLOGY SOCIETY

The *Systematic and Applied Acarology Society* (SAAS) was established on 1 October 1995. It was sponsored by Dr. Zhi-Qiang Zhang (UK) and co-organized by Dr. Xiaoyue Hong (China) and Dr. Ting-Kui Qin (New Zealand). SAAS aims at promoting the development of acarology in China and fostering the communication and cooperation among acarologists in China and other parts of the world.

SAAS is an international society for Chinese acarologists living home and abroad. However, anyone who is interested in systematic and applied acarology and in promoting the communication and cooperation among acarologists in China and other parts of the world, is invited to join SAAS. SAAS currently has over 80 members from mainland China, Hong Kong, Taiwan, New Zealand, UK and USA.

SAAS publishes a newsletter, *Acarology Bulletin*, and a research journal, *Systematic and Applied Acarology*. *Acarology Bulletin* publishes news about the society and information about systematic and applied acarology. It is published in four issues in 1996 (volume 1) and distributed free of charge to members of SAAS. *Systematic and Applied Acarology* is a peer-reviewed international journal. It publishes original articles on any aspects of systematic and applied acarology. It will publish ca. 200 pages or 40 articles in 1996 (volume 1). Members of SAAS can publish free of page charge in the journal. Members are, however, obliged to subscribe the journal.

Chinese acarologists have long wished to establish an acarological society and to publish a journal in which they can present their works on the Acari. We are very pleased to announce that their dreams have now come true.

Please join us in promoting the development of acarology in China and fostering the communication and cooperation among acarologists in China and other parts of the world.

Zhi-Qiang Zhang 張智強

on behalf of
the Organizing Committee of
Systematic and Applied Acarology Society

Dr. Xiaoyue Hong

Dr. Ting-Kui Qin

Dr. Zhi-Qiang Zhang (Chairman)

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Acarology Bulletin Editors

Editor:

Dr. Zhi-Qiang Zhang (UK)

Assistant editors:

Dr. Xiaoyue Hong (China)

Dr. Renjie Hu (USA)

Dr. Ting-Kui Qin (New Zealand)

Acarology news and member news

The Third Symposium of the European Association of Acarologists (EURAAC), will be held in Amsterdam, the Netherlands in the first week of July (July 1-5), 1996. The central theme of the Symposium is: Ecology and Evolution in the Acari. For further information, contact the Symposium secretariat: Mrs Tine Korzilius, Section Population Biology, University of Amsterdam, Kruislaan 320, 1098 SM Amsterdam, The Netherlands. Fax: +31 20 525 7754. Tel. +31 20 525 7736.

The Sixth National Congress of Acarology, organized by the Specific Committee of Acarology of the Entomological Society of China, was successfully held during 24-28 October 1995 in Huangshan City. It was attended by 87 participants with 100 submitted papers. A plenary session was followed by two parallel sessions (Agricultural Acarology and Medical Acarology). The abstracts of papers were collected in a proceeding which was distributed to all participants of the Congress.

The Workshop on Mites of Agricultural Importance, organized by Zhi-Qiang Zhang (International Institute of Entomology, UK) and Lairong Liang (Fudan University, China) was successfully held during 12-19 October 1995 at Fudan University. It was attended by 24 participants from various parts of China.

Ting-Kui QIN: I was born in Guizhou, China. I received my B.Sc. in 1982 from Guizhou Agricultural College. I completed a MSc in 1990 and a PhD in 1993, both from the Australian National University. I worked as a post-doctoral fellow in the CSIRO Division of Entomology, Canberra, Australia from 1993 to August 1995 before joining Landcare Research, Auckland, New Zealand as a research scientist. My duties include the systematic study and curation of mites in the New Zealand Arthropod Collection. I am interested in the systematics and biogeography of both mites and scale insects. I have worked on the taxonomy of the Eupodoidea and population genetics of *Halotydeus destructor*.

Renjie HU: I am currently affiliated with Tick Research Laboratory, Department of Biological Sciences at the University of Rhode Island (Kingston, RI 02881, USA). My research has focused on tick-borne diseases, in particular, Lyme disease and human babesiosis. I have been conducting research projects on the epidemiology and epizootiology of these diseases, describing patterns and risk factors in human populations and detecting the presence of the two pathogens, *Borrelia burgdorferi* (Lyme disease) and *Babesia microti* (babesiosis) in tick and rodent populations. I am also involved in research on the vector competence of the tick, *Ixodes scapularis*, in the transmission of both infections as well as pathogen-tick interactions. I have studied the usefulness of a chalcid wasp, *Hunterellus hookeri* for the control of *I. scapularis* populations. Several years ago, I worked with my colleagues in Beijing on determining the prevalence of Lyme disease in an endemic area in northern China. I would like to take this opportunity to express my interest in establishing collaborative projects with my fellow Chinese scientists and encourage you to contact me for possible joint projects.

Xiaoyue HONG: An associate professor of the Department of Plant Protection, Nanjing Agricultural University (NAU), Jiangsu, China. M.Sc (1988) from NAU on the systematics of Eriophyoidea in China under the supervision of Prof. Haiyuan Kuang. PhD (1991) from NAU on the ultrastructure and toxicology of *Tetranychus cinnabarinus* under the supervision of Prof. Ziping You. Joined NAU in 1991, studying the physiology of *Tetranychus* mites and migratory physiology of *Nilaparvata lugens*. Currently researching the systematics and cladistics of the Eriophyoidea at International Institute of Entomology, London with Dr. Z.-Q. Zhang.

Zhi-Qiang ZHANG has been honoured a Professorship by Fudan University (Shanghai, China) for the period 1995-1999.

Book Review



Biology of Ticks, by Daniel E. Sonenshine, Oxford University Press, Inc., New York, Vol. 1 (1991) xvi + 447 pp. and Vol. 2 (1993) xvii + 465 pp.

This two volume book comes at a time when interest in tick-borne diseases is very strong. The book is dedicated to the memory of Dr. Harry Hoogstraal. The book extensively covers the systematics, biology, morphology, physiology, biochemistry, ecology, disease relationships, and the control of ticks. Numerous tables, figures, diagrams, and light and scanning electron micrographs are beautifully presented in both volumes and the subject index provided is easy to use.

Volume 1 includes three parts (I-III) and covers the systematics, life cycles, morphology, physiology and biochemical processes of ticks. Part I consists of 3 chapters (1-3) describing the evolution, systematic relationships, and basic biology (life cycles) of ticks. Descriptions of the families, major genera, and a dichotomous identification key are included. Part II introduces the outline of tick body structure in its 3 chapters (4-6) with a detailed examination of the integument. Part III comprises 16 chapters and constitutes the largest portion of the volume. Internal anatomy, histology, and ultrastructure of tick body organs, as well as physiology and the biochemical processes essential to the success of the parasites are discussed in chapters 7-17. Chapters 8-22 deal with tick cytogenetics and genetics, pheromonal regulation of mating, embryogeny, endocrine regulation of reproduction, development and water balance. The two major families, Ixodidae and Argasidae, are compared in all aspects when appropriate.

Volume 2 contains Parts IV - VI on the remaining subjects of the book. Part IV has 3 chapters (23-25) on the ecology of non-nidicolous and nidicolous tick as well as acquired immunity to ticks. Part V constitutes the largest portion of this volume with 5 chapters (26-30) on tick-borne and tick-caused diseases. Presentation of diseases is arranged by the major pathogen categories, i. e. protozoan, virus, rickettsia, bacterium, and

tick-produced toxins. Each disease is described in a specific and consistent manner for convenient comparison: history, etiology, clinical features and pathology, ecology, epidemiology, diagnosis, and a brief description of treatment. Less well-known tick-borne diseases such as those caused by fungus, nematode, flagellate are omitted. Part VI consists of only one chapter (31) on the control of ticks. Discussions are mainly focused on the role of acaricides in tick control, but recent innovative approaches using the knowledge of tick and host ecology, tick pheromones, hormones, and modelling are adequately described. An appendix with details on methods for collecting ticks in the natural environment, preparing ticks for study, and laboratory rearing is also included.

In my opinion, this is one of the most comprehensive books on tick biology and tick-borne diseases. The Literature Cited section includes up-to-date references. I highly recommend this book to colleagues in the field. My feeling is that it is a very useful and accountable reference for information on nearly all aspects of ticks.

Renjie HU

NEW BOOKS

Acari: Dermanysoidea. By Deng, Guofan, Wang, Dunqing, Gu, Yiming & Meng, Yangchun (1993) Economic Insect Fauna of China Fasc. 40. Science Press, Beijing. 391 pp. Paper cover. ISBN 7-03-003516-X/Q.445. [In Chinese].

Oribatid Mites. Morphology, development, Phylogeny, Ecology, Methods of Study, Model Species *Nothrus palustris* C.L. Koch, 1893. Edited by Krivolutsky, D. A. (1995) Nauka Publishers, Moscow. 221 pp. Hard cover. ISBN 5-02-005551-9. [in Russian].

Acari and Human Diseases. Ed. by Meng, Yangchun, Li, Chaoping & Liang, Guoguang. (1995) China Science and Technology University Press, Hefei. 395 pp. Hard cover. ISBN 7-312-00611-6/R. 26. [In Chinese].

NOTICE TO AUTHORS:

SYSTEMATIC AND APPLIED ACAROLGY

Aims and scope

Systematic and Applied Acarology (SAA) is an international journal of the Systematic and Applied Acarology Society (SAAS). The journal is intended as a free publication outlet for members of SAAS; however, publication by non-members is possible at a charge of US\$40 per print page.

SAA publishes papers reporting results of original research on any aspects of mites and ticks. Submission of a manuscript implies that the results have not been published and are not being considered for publication elsewhere. The journal assumes that all authors of a multi-authored manuscript agree to its submission. All papers are peer-reviewed before acceptance for publication.

Presentation

All manuscripts must be in English. Authors should make sure that the manuscript is written in good and concise English. A manuscript must start with a concise title followed by the name(s) and address(es) of the author(s). An abstract of no more than 500 words should be included before the text. Up to 6 key words should be provided. Headings such as Introduction, Materials and Methods, Results, Discussion, Acknowledgments, and References may be used. The text is followed by tables, appendices (if any), figure captions, and figures, all of which must be numbered consecutively. Manuscripts should be double spaced with no less than 2 cm left and right margins

Systematic manuscript

Taxonomic revisions and phylogenetic studies are preferred, although manuscripts that simply describe a single new species are also considered for publication. New taxa, new combinations and new synonyms should be indicated as **fam. nov.**, **gen. nov.**, **sp. nov.**, **com. nov.** and **syn. nov.** The data for holotype and paratype(s) and their depositories must be provided in the original descriptions. All material examined should also be listed.

Illustrations

Illustrations should have author(s) name(s) and the figure numbers on the back. When preparing illustrations, authors should bear in mind that the journal has a matter size of 22 x 14 cm and is printed on 26 x 19 cm paper. Illustrations should not exceed the size of a A4 paper. Photographs should be used sparingly; the original prints should be submitted.

References

References are cited in the text in the format: Xin (1988) or (Xin 1988), Shih & Huang (1991) or (Shih & Huang 1991); Zhu et al. (1995) or (Zhu et al. 1995). All references cited in the text should be listed in alphabetical order and the ones not cited should not be listed. All names of the authors should be given and the titles of the journals should be in full and not abbreviated. The references are arranged in the following format.

Shih, C.I.T. & Huang, J.S. (1991) Functional responses of *Amblyseius womersleyi* preying on the kanzawa spider mites. In: Dusbabek, F. & Bukva, V. (eds.) *Modern Acarology Vol. 2*. Prague, Academia and The Hague, SPB Academic Publishing bv. pp. 481-484.

Xin, J.-L. (1988) *Agricultural Acarology*. Beijing, Agriculture Press. 466 pp.

Zhu, X.X., Zhang, W.Y. & Oliver, J.H. Jr. (1995) Immunocytochemical mapping of FMRFamide-like peptides in the argasid tick *Ornithodoros parkeri* and the ixodid tick *Dermacentor variabilis*. *Experimental and Applied Acarology*, 19, 1-9.

Submission

Three copies of the manuscript should be sent to the Editor: Dr. Zhi-Qiang Zhang, International Institute of Entomology, c/o The Natural History Museum, London SW7 5BD, UK. (Tel: 44 171 938 9535; FAX: 44 171 938 9309; E-mail: zz@nhm.ac.uk). Authors in P. R. China may submit their manuscript to the Co-Editor: Prof. Lairong Liang, Xin Jie-Liu Acarology Laboratory, Department of Biology, Fudan University, Shanghai 200433, China.

Authors of accepted papers will be asked to submit an electronic version of the manuscript. The journal accepts 3.5" diskettes for IBM or Macintosh computers. Wordperfect and Microsoft Word are preferred software, but other software is also acceptable. If the latter is the case, author(s) should indicate the software and version used. Electronic version of the revised manuscripts may also be sent via e-mail as an attachment. A paper copy of the final version of the manuscript should always be submitted.

Offprints

Authors of each paper receive 10 free reprints.

Member list of the Systematic & Applied Acarology Society

CAO, Huaguo, Department of Plant Protection, Jiangxi Agricultural University, Jiangxi 330045

CHEN, Jinglong, Department of Parasitology, Fujian Medical College, Fuzhou, Fujian 350004

CHEN, Xingbao, Basic Science Department, Bengbu Medical College, Bengbu, Anhui 233033

CHEN, Wei, Fuzhou Institute of Agricultural Sciences, Fuzhou, Fujian 350014

CHEN, Xiwen, Department of Biological Engineering, Nanchang University, Jiangxi 330047

CHEN, Youguang, Shaanxi Fruit Product Research Institute, Xi'an, Shaanxi 710061

CHEN, Zongmao, Tea Research Institute, Chinese Academy of Agric. Sciences, Hangzhou 510008

CHOW, Y. S., Institute of Zoology, Academia Sinica, Taipei, Taiwan 115

DONG, Huiqin, Dept. of Environ. & Resources Biology, Fudan University, Shanghai 200433

DONG, Yingcai, Dept. of Plant Protection, North-western Agric. Univ., Yangling, Shaanxi 712100

FAN, Peifang, Shanghai Agricultural College, Shanghai 201101

FAN, Qinghai, Dept. of Plant Protection, Fujian Agricultural University, Fuzhou, Fujian 350002

FU, Yueguan, Plant Protection Res. Inst., Chinese Acad. of Tropical Agric., Danzhou, Hainan 571700

GU, Yiming, Medical College, Nanjing University, Nanjing, Jiangsu 210008

GUO, Xianguo, Dali Medical College, Yunnan 671000

HAN, Lu, Center for Abnormality, The Second Hospital Attached to Shenyang Medical College, Shenyang, Liaoning 110002

HE, Chungui, Dept. of Plant Protection, Gansu Agricultural University, Lanzhou, Gansu 730070

HONG, Xiaoyue, Department of Plant Protection, Nanjing Agricultural University, Jiangsu 210095

HOU, Aiping, Xindian Town Government, Fuzhou, Fujian 350012

HU, Chenye, Dept. of Environmental & Resources Biology, Fudan University, Shanghai 200433

HU, Renjie, Dept. of Biological Sciences, Center for Vector-borne Disease, University of Rhode Island, Kingston, Rhode Island 02881 (USA)

HU, Siqin, Department of Biological Engineering, Nanchang University, Nanchang, Jiangxi 330047

HUANG, Jialiang, Research Institute of Military Medicine, Guangzhou Military Region, Guangzhou, Guangdong 510517

HUANG, Kejun, Medical Biology Teaching and Research Group, Changzhi Medical College, Shanxi 040000

JIN Daochao, Institute of Entomology, Guizhou Agricultural University, Guiyang, Guizhou 550025

KUANG, Haiyuan, Dept. of Plant Protection, Nanjing Agric. University, Nanjing, Jiangsu 210095

LAN, Minyang, Suzhou Medical College, Suzhou, Jiangsu 215007

LI, Chaopin, East China Coal Medical College, Huainan, Anhui 232001

LI, Deyou, Institute of Plant Protection, Guizhou Academy of Agricultural Sciences, Guiyang, Guizhou 550006

LI, Jianshe, Cotton Research Institute, Shanxi Academy of Agricultural Sciences, Yuncheng, Shanxi 044000

LI Qingtian, Institute of Zoology, Academia Sinica, Beijing 100080

LI, Shuiqing, Veterinary Research Institute, Xinjiang Academy of Animal Husbandry Sciences, Xinjiang 830000

LIANG, Lairong, Department of Environmental & Resources Biology, Fudan University, Shanghai 200433

LIANG, Xueni, Department of Plant Protection, Jiangxi Agricultural University, Jiangxi 330045

LIAO, Guohou, Institute of Parasitic Diseases Control, Nanning, Guangxi 530021

LIN, Jianzhen, Institute of Plant Protection, Fujian Academy of Agric. Sciences, Fuzhou 350013

LIU, Minshe, Department of Parasitology, Changzhi Medical College, Shanxi 046000

MA, Liming, Jilin First Institute of Endemic Diseases Research, Baicheng, Jilin 137000

MAO, Huiling, Department of Biological Engineering, Nanchang University, Jiangxi 330047

MEN, Ling, Department of Plant Protection, Xinjiang Agric. University, Urumqi, Xinjiang 830052

- MENG, Yangchun**, Department of Parasitology, Suzhou Medical College, Suzhou, Jiangsu 215007
- MO, Chengfeng**, P. O. Box 182, Tai Po Post Office, Hong Kong
- NEUR, Kuermanali**, Vet. Res. Institute, Xinjiang Acad. of Animal Husbandry Sci., Xinjiang 830000
- NEURLAN, Henayati**, Vet. Res. Inst., Xinjiang Acad. of Anim. Husbandry Sci. Xinjiang 830000
- PU, Gensheng**, Dept. of Plant Protection, Southwest Agric. Univ., Sichuan 630716
- QIN, Hongyi**, Center for Abnormality, Second Hospital Attached to Shenyang Medical College, Shenyang, Liaoning 110002
- QIN, Ting-Kui**, Landcare Research, Private Bag 92170, Auckland (New Zealand)
- SHEN, Miaoling**, Dept. of Plant Protection, Guizhou Agric. University, Guiyang 550025
- SI, Qiang**, Shanghai Museum of Natural History, 260 Yan'an Road (E), Shanghai
- WANG, Dunqing**, Department of Parasitology, Fujian Medical College, Fuzhou, Fujian 350004
- WANG, Huifu**, Institute of Zoology, Academia Sinica, Beijing 100080
- WANG, Jusheng**, Dept. of Parasitology, Guiyang Medical College, Guiyang, Guizhou 550004
- WANG, Kejun**, Dept. of Medical Biology, Changzhi Medical College, Shanxi 046000
- WANG, Shenrong**, Jilin First Institute of Endemic Diseases Research, Baicheng, Jilin 137000
- WEI, Suigai**, Guangxi Agricultural University, 13 Xiulin Road, Nanning, Guangxi 530005
- WEN, Cungen**, Dept. of Biological Engineering, Nanchang University, Nanchang, Jiangxi 330047
- WEN, Tinghuan**, Department of Parasitology, Shanghai Medical University, Shanghai 200032
- WU, Hongji**, Department of Plant Protection, South China Agricultural University, Guangzhou 510642
- WU, Jianwei**, Department of Parasitology, Suzhou Medical College, Suzhou, Jiangsu 215007
- WU, Qianhong**, Dept. of Environ. & Resources Biology, Fudan University, Shanghai 200433
- WU, Weinan**, Guangdong Entomological Institute, Guangzhou, Guangdong 510260
- WU, Yuanshang**, Tianshui Fruit Tree Research Institute, Tianshui, Gansu
- XIA, Bin**, Department of Biological Engineering, Nanchang University, Nanchang, Jiangxi 330047
- XING, Daorong**, Department of Parasitology, Xuzhou Medical College, Jiangsu 221002
- XU, Rongman**, Inst. of Microbiol. and Epidemiol., Acad. of Military Medical Sciences, Beijing 100071
- XU, Lirui**, Shandong Cotton Research Institute, Jinan, Shandong 250100
- XU, Ning**, Tea Research Institute, Chinese Acad. of Agric. Sci., Hangzhou, Zhejiang 310008
- XU, Xuenong**, Dept. of Plant Protection, Anhui Agric. University, Hefei, Anhui 230036
- YAN, Zhongcheng**, Institute of Microbiology and Epidemiology, Academy of Military Medical Sciences, Beijing 100071
- YANG, Xiaolong**, Dept. of Plant Protection, Guizhou Agricultural University, Guiyang 550025
- YANG, Yanyun**, Dept. of Environ. & Resources Biology, Fudan University, Shanghai 200433
- YANG, Ziqi**, Department of Horticulture, Jiangxi Agricultural University, Nanchang, Jiangxi 330045
- YU, Lichen**, Hebei Changli Fruit Tree Research Institute, Changli, Hebei 066600
- YU, Yanglin**, Department of Dermatology, Hospital attached to Xuzhou Medical College, Xuzhou 221002
- ZHANG, Chi**, Institute of Acariasis, Sanitation and Anti-epidemic Station of Heilongjiang Province, Harbin, Heilongjiang 150036
- ZHANG, Huijie**, Cotton Research Institute, Shanxi Academy of Agricultural Sciences, Yuncheng, Shanxi 044000
- ZHANG, Jianping**, Department of Agronomy, Shihezi Agricultural College, Xinjiang 832003
- ZHANG, Yanxuan**, Institute of Plant Protection, Fujian Academy of Agricultural Sciences, Fuzhou, Fujian 350013
- ZHANG, Xinhu**, Department of Plant Protection, Gansu Agricultural University, Lanzhou, Gansu 730070
- ZHANG, Zhi-Qiang**, International Institute of Entomology, CAB INTERNATIONAL, 56 Queen's Gate, London SW7 5JR (UK)

ZHAO, Zhimo, Department of Plant Protection, Southwest Agricultural University, Chongqing, Sichuan 630716

ZHEN, Jinhong, Animal Parasite Lab., Xinjiang Nongken Acad., Shihezi, Xinjiang 832000

ZHI, Junrui, Dept. of Plant Protection, Guizhou Agric. University, Guiyang, Guizhou 550025

ZHOU, Hongfu, Dept. of Parasitology, Suzhou Medical College, Suzhou, Jiangsu 215007

ZHOU, Manshu, Sanitation and Anti-Epidemic Station of Sichuan Province, Chengdu 610031

ZHU, Xiangxiang, Shanghai Institute of Entomology, Academia Sinica, Shanghai 200025

ZHU, Zhimin, Dept. of Biological Engineering, Nanchang University, Jiangxi 330047

This list includes members who joined SAAS before 15 December 1995. If you are not on the list or if your name and address are not correct, please write to Dr. Zhi-Qiang Zhang.



Nomination of candidates for officers of SAAS

The Systematic and Applied Acarology Society is currently served by an Organizing Committee (Dr. Xiaoyue Hong, Dr. Ting-Kui Qin and Dr. Zhi-Qiang Zhang, Chairman). The officers of SAAS (the President, Secretary and Treasurer) and an Executive Committee (of six members) will be elected in 1996. Please nominate one member for each of the 9 official posts. Please nominate those members who you think can best serve the Society and send the list of nominees to Dr. Zhi-Qiang Zhang, International Institute of Entomology, 56 Queen's Gate, London SW7 5JR, UK before 15 March 1996. Two nominees of each post who get the highest number of nominations will become candidates for each post. The names of the candidates for each post will be published in the next issue of the *Acarology Bulletin* in April 1996. The officers and the Executive Committee members will then be elected from the candidates by votes from members.

Bylaw of the Systematic and Applied Acarology Society

Article 1 NAME. The name of the organization shall be the Systematic and Applied Acarology Society.

Article 2 OBJECTIVES. The objectives of the Society shall be to promote the development of acarology in China and foster the communication of acarologists in China and other parts of the world.

Article 3 MEMBERSHIP. Membership of the Society is open to all interested in systematic and applied acarology and in promoting the objectives of the Society. Membership fees for each year should be decided and agreed by a majority of the elected officers of the Society.

Article 4 OFFICERS AND EXECUTIVE COMMITTEE. The officers of the Society shall be the President, Secretary, and Treasurer. The Treasurer may be jointly held by another officer (i.e. secretary). An Executive Committee shall consist of six standing members and the President, Secretary and Treasurer, all of whom shall be elected from and by members of the Society. The President shall preside over meetings of the Society and ensure that the affairs of the Society are conducted in accordance with the bylaw of the Society. The Secretary shall give notice and keep all records of the Society. The treasurer shall take care of the funds of the Society and deposit them in a bank account. The Treasurer shall make financial records of the Society available to any member and to an annual audit. The Executive Committee shall be responsible for the management of affairs and business of the Society.

Article 5 PUBLICATIONS. The Society shall publish a member service newsletter (*Acarology Bulletin*) and a research journal (*Systematic and Applied Acarology*).

Article 6 RATIFICATION AND AMENDMENTS. This bylaw shall become effective upon ratification by membership through mail or at a general meeting. Proposal of amendments of bylaw shall be submitted in writing to the Secretary and approved by an affirmative vote of two-thirds of the voting members.

Article 7 DISSOLUTION. In the event that the Society is dissolved for any reason, all assets remaining after payment of debts shall be used exclusively for scientific purposes as recommended by the Executive Committee.

This is a draft. Please send your approval or proposal of amendments to Dr. Zhi-Qiang Zhang, 56 Queen's Gate, London SW7 5JR, UK

Systematic & Applied Acarology Society

Application for membership

Systematic and Applied Acarology Society (SAAS) aims at promoting the development of acarology in China and fostering the cooperation among acarologists in China and other parts of the world. Anyone interested in study of mites and ticks is welcome to join SAAS. There is no membership fee for 1996. A voluntary contribution of \$10 is welcome. Members receive free of charge the newsletter of the Society (*Acarology Bulletin*) and can publish free of charge in *Systematic and Applied Acarology* (SAA). Members are, however, obliged to subscribe to SAA.

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

Address: _____

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

Degrees:	Institution	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Research Interest: _____

Please send the completed application form to :

Dr. Zhi-Qiang Zhang International Institute of Entomology c/o The Natural History Museum London SW7 5BD United Kingdom	or Xin Jie-Liu Acarology Laboratory Dept. of Environmental & Resources Biology Fudan University Shanghai 200433, CHINA
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ACAROLOGY BULLETIN (ISSN 1361-8091) is a newsletter of the Systematic and Applied Acarology Society (SAAS). It is published in four issues in 1996 (January, April, July and October) and is distributed free to members of SAAS. Non-members who want to subscribe should contact the Editor: Dr. Zhi-Qiang Zhang, International Institute of Entomology, c/o The Natural History Museum, London SW7 5BD, UK. All correspondence regarding the *Acarology Bulletin* and submission of news, information and manuscripts for publication in the *Acarology Bulletin* should be sent to the Editor.

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