

Metaleptea

The ORTHOPTERISTS' NEWSLETTER

Vol. 16, No. 2

THE ORTHOPTERISTS' SOCIETY

July 1996

In this Issue . . .

- 2** Executive Director's Comments
- 4** New Members
- 4** President's Report
- 5** Preliminary Announcement, Orthopterists' Society Meeting in Cairns, Australia
- 12** Registration Form
- 13** Presentation Request Form
- 14** Instructions to Authors
- 16** Australian Orthopteroid Insects
- 18** Mantis Study Group
- 19** Books and Notices
- 20** More Books and Notices

A MESSAGE FROM THE EDITOR

**!! IMPORTANT INFORMATION INSIDE !!
REGISTRATION FOR UPCOMING MEETING
OF THE ORTHOPTERISTS' SOCIETY**

§

PLEASE READ THE CONTENTS OF THIS ISSUE OF *METALEPTEA* CAREFULLY. It contains valuable and important information on the upcoming meeting of the Orthopterists' Society, which is scheduled to take place in Cairns, Australia, in October, 1997. I am anxious to attend this Conference, which promises to be exceptionally diverse and interesting to all of us. We applaud the efforts of President David Rentz and staff for preparing the local arrangements in Cairns. In the next issue of *Metaleptea*, there will be more detailed instructions on local arrangements including information on the Conference site itself, airline reservations, airport transfers, rental cars, recreational opportunities, and methods of payment.

§

The next number of *Journal of Orthoptera Research* is scheduled to be published within the next month. Dan Otte is busy preparing that volume and expects it will be yet another welcomed addition to our knowledge of orthopterology.

§

In the next issue of *Metaleptea*, we will be publishing a modified membership directory, one that presents only electronic means of communication. It will include each member's telephone, fax, and e-mail number (where applicable). This is an important addition to our current published directory, which lists only mailing addresses [see *Metaleptea* 15(1)]. If you have not already passed this information on to our Executive Director, Jeffrey Lockwood, please do so as soon as possible!

§

Metaleptea needs more articles and news items from you. The articles can pertain to any subject relating to orthopterology, although peer-reviewed scientific research should be directed to *Journal of Orthoptera Research*, since that is our vehicle for original scientific papers. That does not preclude us from publishing scientific or observational notes of interest in *Metaleptea*, however, so please feel free to send me anything you would like to share with our membership.

§

I will be in Peru on my Earthwatch Project on Amazon katydids from August 17 to September 14. Please be in touch via e-mail or by regular mail.

David A. Nickle
Editor, Orthopterists' Society

e-mail: mnhen117@sivm.si.edu

COMMENTS

THE EXECUTIVE DIRECTOR'S COMMENTS

Jeffrey A. Lockwood

Membership

I am pleased to report that your Society is a vital and growing community of scientists. We currently have 338 members, which bodes well for our future. I continue to take particular pride in the geographic richness of our ranks, which now include 46 countries (with preapologies for any omissions: Argentina, Australia, Belgium, Brazil, Canada, Chile, China, Cuba, Denmark, Egypt, England, France, Germany, Hungary, India, Iran, Israel, Italy, Japan, Kenya, Macau, Madagascar, Mexico, Morocco, Netherlands, New Zealand, Nigeria, Pakistan, Poland, Russia, Saudi Arabia, Seychelles, Singapore, South Africa, Spain, Sweden, Switzerland, Syria, Taiwan, Tanzania, Thailand, Trinidad and Tobago, United States of America, Uruguay, Zaire, and Zambia). On a continental basis, 39% of our members are North American, 28% European, 16% Asian, 9% Australian or New Zealanders, 4% African, and 4% Central and South American. It would seem that we have the potential for membership growth on all continents, but perhaps we might focus some attention on Africa and Central/South America, as these regions seem particularly underrepresented – especially with respect to the ecological and economic importance of Orthoptera.

§

Our most recent, major accomplishment was the development of The Orthopterists' Society Homepage, which can be found on the World Wide Web at:

//

<http://www.uwyo.edu/ag/psisci/lockwood/orthop.htm>

HomePage

Actually, I can take little credit for this impressive project (other than a bit of concept and design), as my research associate, Scott Schell, developed, implemented, and updates the site. Since its premiere in early March, we have had 530 visitors to the page, which represents over five per day. As such, this appears to be an effective means of communication. The Homepage currently includes a beautiful layout (including a most-appropriate background and a spectacular image of a coneheaded grasshopper), a description of the Society, a guest book, a membership directory (including names, institutional affiliations, addresses, phone/fax numbers, e-mail addresses, and expertise listings), a bulletin board for news and queries (there are currently five postings that members will find important or interesting), a page of information on the 1997 meeting in Cairns (including great links to tour operators, a gallery of Queensland insects, with marvelous photos and brief natural history notes of local Orthoptera, and more!), the Table of Contents from the most recent issue of the *Journal of Orthoptera Research*, a membership application (we've already had our first member join via our Homepage), the last Research Fund call-for-papers (for those wishing to get a headstart on the next round of funding), and (most recently) a link to a fantastic "Interactive key to the Katydids of La Selva Biological Station, Costa Rica." We have received lots of constructive comments from members and some very valuable hints and materials for improving the site. Several members have sent updates of their listings in the membership directory, and we will be making the necessary modifications very soon. In the future, we also will be adding *Metaleptea*, our Constitution and Bylaws, a Gallery of Orthoptera, and the call-for-papers, conference tour information, and other relevant details of the Cairns meeting.

§

Correspondence . .

I continue to receive many queries and ideas from members regarding the functions and services of the Society. I have had over 120 e-mail messages since the first of the year, which doesn't include the letters arriving via regular post (*Hint*: I have a strong ability for vicarious travel, so notes and requests on picture postcards are gladly and enthusiastically received!). With an average of more than a message a day from members, I am convinced that we are an active and healthy scientific Society! I apologize for having been rather delayed in some of my correspondence, as I have been doing double-duty as Executive Director and Treasurer while Roger Bland has been on sabbatical. He should be back in the States by the time you receive this newsletter, and I shall be genuinely overjoyed by his return. I hope that we will have the 1996 membership statements out by mid-summer, although I haven't heard any grumbling about the delay in billing! I would particularly ask that members with outstanding page charges to *JOR* bring their accounts up-to-date. Our publication rates

are extremely reasonable, particularly if one considers the page size and quality of *JOR*. The *Journal* seems to be on solid economic footing (with our last issue actually breaking even!), but we need to be conscientious about publication charges.

§

By way of further good news, I am pleased to announce that the Society has received an anonymous donation of 10 institutional subscriptions. In keeping with the high value placed on the international basis of our scientific community, and in consideration of geographical equity and the capacity of the nominated institutions to care for their holdings and make them widely available to orthopterists and other scientists, the following have been chosen to receive the gift subscriptions:

Sociedad Argentina de Entomologia, La Plata, ARGENTINA
 Museu de Zoologia da Universidade de Sao Paulo, BRAZIL
 Museu Nacional in Rio de Janeiro, BRAZIL
 Biocentro Library, University of Oriente, CUBA
 Plant Protection Research Institute, Cairo, EGYPT
 Hungarian Natural History Museum, Zoology Department, HUNGARY
 G.S. Gill Research Institute of Guru Nanak College, Madras, INDIA
 National Museum of Kenya, KENYA
 University of Sindh, Seminar Library, PAKISTAN
 Natural History Library of St. Petersburg, RUSSIA

The gift subscriptions, including back issues, will be mailed with the release of *JOR* #5 this summer. I would like to thank all of the members who nominated institutions and helped me to coordinate this effort. Any members who have yet to send me the address for an institutional recipient are asked to provide this information as soon as possible.

§

And still more good news – a most generous gift from CIRAD-GERDAT-PRIFAS (Center of International Cooperation in Agronomic Research for Development, Operational Acridology Ecoforces International) of \$1,000 (which will be matched by our anonymous donor) has put the Orthopterists' Society Research Fund in very fine shape. There are some restrictions on the nature of research that can be supported with this recent gift, but many of our members will find themselves very well positioned to compete for these funds. Be sure to keep an eye out for the Research Funds' next Call-for-proposals, which should be sent out this Fall!

§

Finally, there is every indication that the Cairns meeting will be one of our most spectacular and successful events. Dave Rentz and Roger Farrow are making great headway. Roger allowed me to preview the itinerary of the post-conference trip, and it looks wonderfully planned and temptingly priced. I shall be encouraging symposia organizers to assemble their speakers in the near future, and I will be receiving and organizing submitted papers as titles arrive in the coming months. In addition, nominations are now being accepted for new Governing Board officers. Please feel free to submit your name or that of a colleague (it would be ideal if you had an indication of their willingness to accept a nomination, but if you wish to remain anonymous I would be pleased to make the initial contact). In this context, please carefully and seriously consider accepting a nomination if you are contacted – the Society needs an active, member-driven Board to remain a vital community of scientists. We are also accepting nominations for Honorary Membership, which is our highest honor and should be reserved for our most outstanding members. Finally, the Board is developing nominations for the D.C.F. Rentz Awards to recognize the contributions of our members in various fields of orthopterology. You can see that the coming months will be a very busy time, but the big payoff will come Down Under next year!

§

As always, if you have any problems, ideas, constructive criticisms, or other contributions to make to your Society, please do not hesitate to contact me by phone (307-766-4260), fax (307-766-5549), e-mail (lockwood@uwyo.edu), or post (Department of Plant, Soil, and Insect Sciences, University of Wyoming, Laramie, WY 82071 USA).

Jeffrey A. Lockwood
 Executive Director, The Orthopterists' Society

..... **Gift
 Subscriptions**

..... **Research
 Fund Gift**

..... **7th Meeting
 in Cairns**

..... **Nominations**

FROM THE PRESIDENT


PRESIDENT'S REPORT
DAVID C. F. RENTZ


Greetings from the wintery south. We are having very cold days in Canberra with temperatures dropping below freezing each night. It is not always a "Sunburnt Country".

§

Preparations for the Cairns Conference are proceeding quite well. You will be receiving a final brochure in the mail very soon. This will tell you all the details of the Conference and the post-Conference tour which will take you into the Daintree Rainforest, then out into the eucalyptus woodland communities and to the Undara Caves. This will cover about one week and should prove interesting and scenic. You will see plenty of animals and a variety of plants, not to mention orthopteroids.

§

The Society is always seeking new members, so if you think someone may be interested, please give them a membership form and tell of our activities.

§

We are still plodding along with the "Slide Library". The holders of the Collection always desire "more product", so please send me your excess slides of anything of interest – not only orthopteroids, properly labelled, and I'll send them along, and they can be available to start making \$\$\$ for the Society.

§

We are always interested in comments on how we can make things better. Please contact a Regional Representative if you have comments.

§

All the best,

David Rentz

CSIRO Division of Entomology
 GPO Box 1700,
 Canberra, ACT 2601
 Phone: (06) 246-4286
 FAX: (06) 246-4000

The Orthopterists' Society welcomes the following New Members

Craig R. Baird
 Parma Research &
 Extension Center
 University of Idaho
 Parma, Idaho 83660
 USA

Alexander G. Bugrov
 Biological Department
 Faculty of Natural Sciences
 Novosibirsk State University
 St. Pirogov 2
 Novosibirsk 630090
 RUSSIA

Aleksey Aleksanorovich Chernykh
 Latvian State University
 P/L 129 Riga LV-10-21
 LATVIA

Maria Laura de Wysiecki
 Consejo Nacional de Investiga-
 ciones Cientificas y Tecnicas
 CEPAVE - Calle no. 584
 1900 La Plata
 ARGENTINA

Fan Weimin
 Institute of Zoology
 Chinese Academy of Sciences
 19 Zhongguancun Lu
 Haidian, Deijing, 100080
 P. R. China

George S. Hammond
 Insect Division
 Museum of Zoology
 University of Michigan
 Ann Arbor, MI 48109-1079
 USA

Ralf Matthias Hennig
 Abt. Verhaltensphysiologie
 Inst. Biology
 Humboldt Universität zu Berlin
 Invalidenstrasse 43
 10115 Berlin
 GERMANY

Aikhiko Ichikawa
 310 Kitadai Building
 17-13, Hirao 4-chome
 Taishô-ku, Osaka, 551
 JAPAN

Gen Ito
 Systematic Entomology
 Faculty of Agriculture
 Hokkaido University
 Kita 9, Nisha 9
 Kita-ku, Sapporo, 060
 JAPAN

continued on page 19

**Preliminary Announcement of the
7TH INTERNATIONAL MEETING OF
THE ORTHOPTERISTS' SOCIETY
CAIRNS, AUSTRALIA, 1997**

D. C. F. Rentz, Organizer

Invitation by the Congress Chair

On behalf of the Organising Committee I take pleasure in inviting you to the Orthopterists' Conference which will be held in Cairns, Queensland, Australia, from the 26th to the 30th of October, 1997.

You will find the venue the perfect place for our meeting and for your family to begin their stay in Australia.

We have planned activities for accompanying partners as well as conference delegates. There will be outings during the Conference as well as an extensive post-Conference tour. With the interest shown from the first circular, you will be well advised to get your bookings in early for the tours.

We can guarantee you happy times in Australia and a Conference that will stimulate your interest. You will have ample opportunity to see many of the natural wonders, orthopteroid as well as others, in the Cairns area.

I look forward to welcoming you to Australia in Cairns, the gateway to the Great Barrier Reef.

§

Where and When

Cairns is the very pulse of internationally renowned tropical Far North Queensland. It is a place where the people are warm and the climate and lifestyle are the envy of the rest of the country. What better place to mix business with pleasure?

As Australia's ideal conference destination, Cairns also lays claim to being one of the world's most convenient cities. Pollution and traffic-jam free, it is located only eight kilometres from both the domestic and international airports.

The city's vibrant and festive atmosphere makes it the perfect place to relax and unwind.

World heritage listed reef and rainforest fringe this tropical city. Visitors to the area can be quickly transported to a world which will leave lasting impressions of nature's great works.

As one of Australia's most popular tourist destinations, Cairns also offers a multitude of pre and post conference tour options as well as excellent accompanying persons' programmes to complement busy conference schedules.

Geographically, the city of Cairns has become one of the most dynamic and accessible cities in Australia/Asia/ Pacific region.

It is a city which is accessible by air, road, rail, and sea. Its airport has daily flights from all around Australia and provides connections to New Zealand, Japan, North and South East Asia, Papua New Guinea, the United States of America, and major European cities.

MEETING INFORMATION

Venue

The Conference will be held at the Cairns Colonial Club Resort. Situated on five hectares of tropical landscaped gardens only 6 km from Cairns City Centre and 7 km from Cairns International Airport.

The address details for the venue are as follows:

Cairns Colonial Club Resort
18-26 Cannon Street Manunda
Cairns, Queensland
Australia
Telephone: (int.) 61 70 53 51111
Facsimile: (int.) 61 70 53 7072

The Resort is surrounded by award winning tropical gardens, so you always feel like you're in the tropics. Three lagoon swimming pools offer a perfect place for cooling down, taking in a chapter in the sun or relaxing with a cocktail. If you'd like to stretch out, try the complimentary tennis court or fitness centre. Or for the ideal lazy afternoon, swim up to the Club Bar and be refreshed. There's a special playground for younger visitors and shallow swimming areas in two of the pools.

Pre-arranged courtesy coach transfers from and to the airport may be arranged at the time of registration.

§

Call for Papers

At the 1997 Society meeting, we will offer four formats for presentation of studies.

Symposia

We have identified five topics that are currently being developed as symposia:

- "Biological Control of Orthoptera", Convenor: R. Farrow (Australia)
- "Conservation of Orthopteran Biodiversity", Convenor: M. Samways (South Africa)
- "Grasshopper Population and Community Ecology", Convenor: W. Kemp (USA)
- "Orthopteran Biochemistry and Molecular Endocrinology", Convenor: K. Hoffmann (Germany)
- "Orthopteran Communication", Convenor: W. Cade (Canada)

Additional symposia of interest to the membership (e.g. feeding and nutrition, taxonomy and phylogenetics, etc.) can be added to the program. Individuals willing to convene a symposium must contact the Program Chair with a title and list of participants by March 1, 1997. All individuals participating in announce or new symposia should submit a Presentation Request form and abstract such that these materials are received by the Program Chair by March 1, 1997.

Oral Presentations

Individuals wishing to make oral presentations must submit a Presentation Request form and abstract such that these materials are received by the Program Chair by March 1, 1997. The time allowance for oral presentations will depend on the number of submissions, but we anticipate 12-15 minutes for each speaker. Speakers will be notified of the time restrictions by April 1. Presentation slides should be 2x2 inch, 35 mm and as uncluttered as possible. High quality, overhead transparencies may be used as well. As a courtesy to members who are colourblind, please try to avoid red or green. The oral presentations will be arranged with respect to the organism of study. As such, individuals should be sure to indicate on the Presentation Request form which group of Orthoptera were the object of study.

Poster Presentations

Individuals are encouraged to consider poster presentations. These displays have the advantage of allowing greater details, more time for discussion, and greater exposure at the conference. Those wishing to present a poster must submit a Presentation Request form and abstract such that these materials are received by July 1, 1997. Posters must fit in a 4x6 ft. area, and we anticipate being able to maintain the displays throughout the meeting.

Abstract Only

Individuals may choose to submit an abstract only for inclusion in the Meeting Abstracts, Metaleptea, and the Proceedings. Those wishing to participate in this manner should submit a Presentation Request form and abstract such that these materials are received by July 1, 1997. We will be providing participants with a collection of abstracts at the meeting.

§

Registration

Please complete the enclosed registration form and return it with your payment to the address shown on the form.

§

Full Conference Registration

The full conference registration fee includes attendance at all conference sessions, the welcome reception, morning and afternoon teas, lunches, the program, and abstract book.

§

Student Registration

The student conference registration fee includes attendance at all conference sessions, the welcome reception, morning and afternoon teas, lunches, the program, and abstract book.

§

Registration Fees

	to 1 June '97	after 1 June '97
Delegate Registration	AUD \$ 350.00	AUD \$ 420.00
Student Registration	AUD \$ 250.00	AUD \$ 280.00
Accompanying Persons	AUD \$ 250.00	AUD \$ 250.00

§

Accommodation

Accommodation has been booked at the Cairns Colonial Club Resort. All rooms are airconditioned and have ceiling fans and insect screens. Each room has private facilities, direct dial telephone, colour television, refrigerator, coffee, and tea making.

A twin room contains two beds. The cost of accommodation can be significantly reduced by sharing. If you wish to share accommodation, please indicate on the registration form the name of the person with whom you wish to share.

Requests for bookings must be accompanied by the full payment. This payment will be passed on to the venue.

MEETING INFORMATION

Accommodation Fees

	Single	Double	Twin
Standard Room	\$ 97.00	\$ 97.00	\$ 97.00
Colonial Room	\$ 115.00	\$ 115.00	\$ 115.00
Studio Room	\$ 145.00	\$ 145.00	\$ 145.00
Superior Room	\$ 148.00	\$ 148.00	\$ 148.00
VIP Suite	\$ 251.00	\$ 251.00	\$ 251.00

- * Standard Room—with one double bed and one single bed
- * Colonial Room—with either one double and one single bed or one queen
- * Studio Room—one double bed or two single beds with two single divans
- * Superior Room—with two queen beds
- * VIP Suite—Suite with separate bedroom which has a king sized bed

§

Post Conference Accommodation

"Rainforest to savanna: from mangroves to lava tubes"

- Day 1** Cairns to Cow Bay (Cape Tribulation National Park). En route visit Hartley's Creek Wildlife reserve. Lunch at Port Douglas. Cross Daintree River by ferry, look for crocodiles. Check in at rainforest lodge in Cow Bay. Take board walks through rainforest habitats, look for crocodiles. Dinner at lodge. Night tour for wildlife, especially crocodiles.
- Day 2** am. Optional tours through rainforest, mangrove or along strand (unfortunately no swimming because of box jellyfish). Picnic lunch at Cow Bay.
- pm. Cow Bay to Yungaburra on Atherton Tableland via Mt. Molloy. Visit rainforest patches, including Curtain Pig and Lake Eacham, and stop at Tolga woodworks. Check in at Yungaburra, visit craft shops, etc. Dinner at Yungaburra Hotel .
- Day 3** Yungaburra to Undarra. Visit Millstream Falls. Check in at Undarra Lodge. Lunch and tour of lava tubes. Accommodation in railway carriage. Dinner at Lodge. Night tour for wildlife.
- Day 4** Explore dry savanna and lava tubes at Undarra. Lunch and Dinner at Undarra.
- Day 5** Undarra to Cairns via Palmerston Highway. Some short stops will be organised.
- Cost:** Wilderness Luxury \$1,290 per person
Camps \$ 975 per person

(Minimum of 8 persons required to run tour/maximum of 11)

Tour hosted by resident Entomologist and Marine Biologist.

Includes: accommodation, breakfasts, 2 dinners, transport and tours.

What to bring: Light clothing, mosquito repellent and sunscreen

Full payment must accompany each booking.

Post Conference Accommodation

Accommodation in Cairns has been booked for delegates.

If you wish to make a booking for the Hotel, please complete the relevant part of the registration form.

Lyons Motor Inn	Single AUD\$80	Double AUD\$80	Twin AUD\$80
-----------------	-------------------	-------------------	-----------------

* The full accommodation payment must accompany your booking.

§

Registration at the Congress

The registration desk will be staffed at the Cairns Colonial Club Resort during the following dates and times:

Sunday, 26 October 1997	3.00 pm-5.30 pm
Monday, 27 October 1997	8.30 am-5.30 pm
Tuesday, 28 October 1997	8.30 am-5.30 pm
Wednesday, 29 October 1997	Free Day
Thursday, 30 October 1997	8.30 am-5.30 pm

§

Cancellation and Refunds

In the case of cancellation, participants must inform the conference secretariat in writing of their inability to attend. A full refund of registration fees, less a cancellation fee of AUD \$ 80.00 will be made to any participant cancelling before 1 September 1997. Refunds for cancellations received after that date may not be possible.

§

Mid-Conference Activities

Wednesday, 29 October 1997

Wednesday, 29 October 1997 will be a free day. A tour to the Great Barrier Reef will be offered on a sailing yacht. Opportunity for snorkelling, diving, and sightseeing. Morning, afternoon tea and lunch is included.

Cost: AUD \$150 per person

§

Accompanying Persons Program

Accompanying persons activities include the Welcome Mixers, the Conference Dinner, a Day tour to Port Douglas.

The fee for accompanying persons is AUD \$250.

MEETING INFORMATION**Domestic Airline Bookings**

Qantas Airlines has been appointed as the official carrier for the conference. A special conference airfare, representing a discount of 35% on normal economy fares, is available for participants if booked on the conference registration form. Flight changes can be made subject to group class availability and this fare is fully refundable. \$10.00 cancellation fee once tickets are issued. No other conditions exist.

If you wish to take advantage of the special conference airfares, please complete the relevant part of the registration form. Please note that all airfares are subject to alteration.

Conference Fares (all return economy class airfares)

Canberra/Cairns	AUD \$ 714.00
Adelaide/Cairns	AUD \$ 782.00
Perth/Cairns	AUD \$ 838.00
Hobart/Cairns	AUD \$ 786.00
Brisbane/Cairns	AUD \$ 522.00
Melbourne/Cairns	AUD \$ 778.00
Darwin/Cairns	AUD \$ 546.00
Sydney/Cairns	AUD \$ 689.40 (incl. noise levy tax)

* Any flights arriving into Sydney incur a AUD \$ 3.40 noise levy tax.

A number of other discount airfares may be available. However, most have conditions or cancellation penalties. For information on these other airfares, please contact the conference secretariat.

The secretariat can also offer International Airline bookings, please fax your requirements and, upon receipt of your facsimile, we will provide you with an obligation free quotation.

§

General Information**Transport**

There are ten international airlines operating 184 scheduled international aircraft movements each week at Cairns International Airport. Regular bus transfers from the airport to the city are available.

Immigration and Visa Requirements

Nationals of all countries, except New Zealand, require a passport and visa for entry to Australia. New Zealand residents require a passport only. Participants from, or passing through certain countries, may require immunisation against certain diseases. Visas may be obtained from your nearest Australian High Commission, Embassy or Consulate or, if none are available, through the nearest British Embassy or Consulate.

Personal Insurance

Health Care, dental and ambulance services are not free in Australia. We strongly recommend that you take out a comprehensive medical and travel insurance, which should cover the possibility of cancellation due to strikes and other causes. A condition of registration is that the Orthopterists' Society International Conference, its servants and its agents, accept no responsibility of any nature whatsoever for personal injury, death, or loss or damage to property of participants, however caused or arising.

Illustrations and Figures

Illustrations should be planned for reduction to the dimension of the printed page (13.5 x 19.4 cm, column width 6.3 cm) and allow room for legends at the top and bottom. Do not make plates larger than 14" x 18" (35 x 45 cm). Individual figures should be mounted on a suitable drawing board or similar heavy stock. Photographs should be trimmed, grouped together and abutted when mounted. Figure numbers should be on the plate. Include title, author(s) and address(es), and illustration numbers on back of each plate. Original figures should accompany the original manuscript when presented to the editor. Reference to figures/tables in the text should be in the style "(Fig. 1)" "(Table 1)". Measurements should be in the metric system.

Scientific Names and Taxonomy Papers

All papers must conform to the International Code of Zoological Nomenclature. The first mention of a plant or animal should include the full scientific name including the authority. Genus names should not be abbreviated at the beginning of a sentence. In taxonomic papers type specimens must be clearly designated, type depositories must be clearly indicated, and new taxa must be clearly differentiated from existing taxa by means of keys or differential diagnoses. Basically, the papers must conform to good taxonomic practices. Authors are required to deposit all type material in nationally or internationally recognized institutions (not private collections). Voucher specimens should be designated for specimens used in behavioral or autecological studies, and they should be deposited similarly.

Acceptance of taxonomic papers will not require use of cladistic methods; however, authors using them will be expected to specify the phylogenetic program used (if any), including discussion of program options used. If characters are run nonadditively, this should be stated along with weighting criteria. A data matrix should be provided if the subject is complex. Cladograms must be hung with characters and these should include descriptors (not numbers alone) when feasible. If there are multiple equally parsimonious cladograms, the exact number should be stated, and reasons given for the one adopted. Lengths and consistency indices should be provided. Adequate discussions should be given for characters, plesiomorphic conditions, and distributions of characters among outgroups when problematical.

Citing References

References in the text should be (Smith 1999), without a comma, or Smith (1999). Two articles by a single author should be (Smith 1999a, 1999b) or Smith (1999a, 1999b). For papers in press, use "in press," not the expected publication date. The Literature Cited section should include all papers referred to in the paper. Journal names should be spelled out completely.

Bibliographic references should appear at the end of the text with references cited to conform with the following format (see examples):

Jones, A B, Smith, X Y, Young, B N. 1979. A study on the morphology of *Teleogryllus oceanicus* (Gryllidae). *Journal of Comparative Morphology* 23: 94-8.

Otte, D. 1989. Speciation in Hawaiian crickets. pp. 483-526, In: T. Sebeok (ed.) *How Animals Communicate*. 9ed.). Bloomington, Indiana, USA.

[Note the formatting of "multiple author" citations and all punctuation standards in the above two examples. DO NOT enclose the date of publication within parentheses.]

Charges

Publication charges are as follows: \$20 (US) per page due with reprint order, 1-page abstracts will be charged the minimal \$20 page charge. Cost of reprints has not been determined as yet. At least one author of the paper must be a member. There are no free reprints. Reprints are charged to the author and must be ordered when returning the proofs. Author's corrections and changes in proof are also charged to the author. Color plates will be billed at full cost to the author.

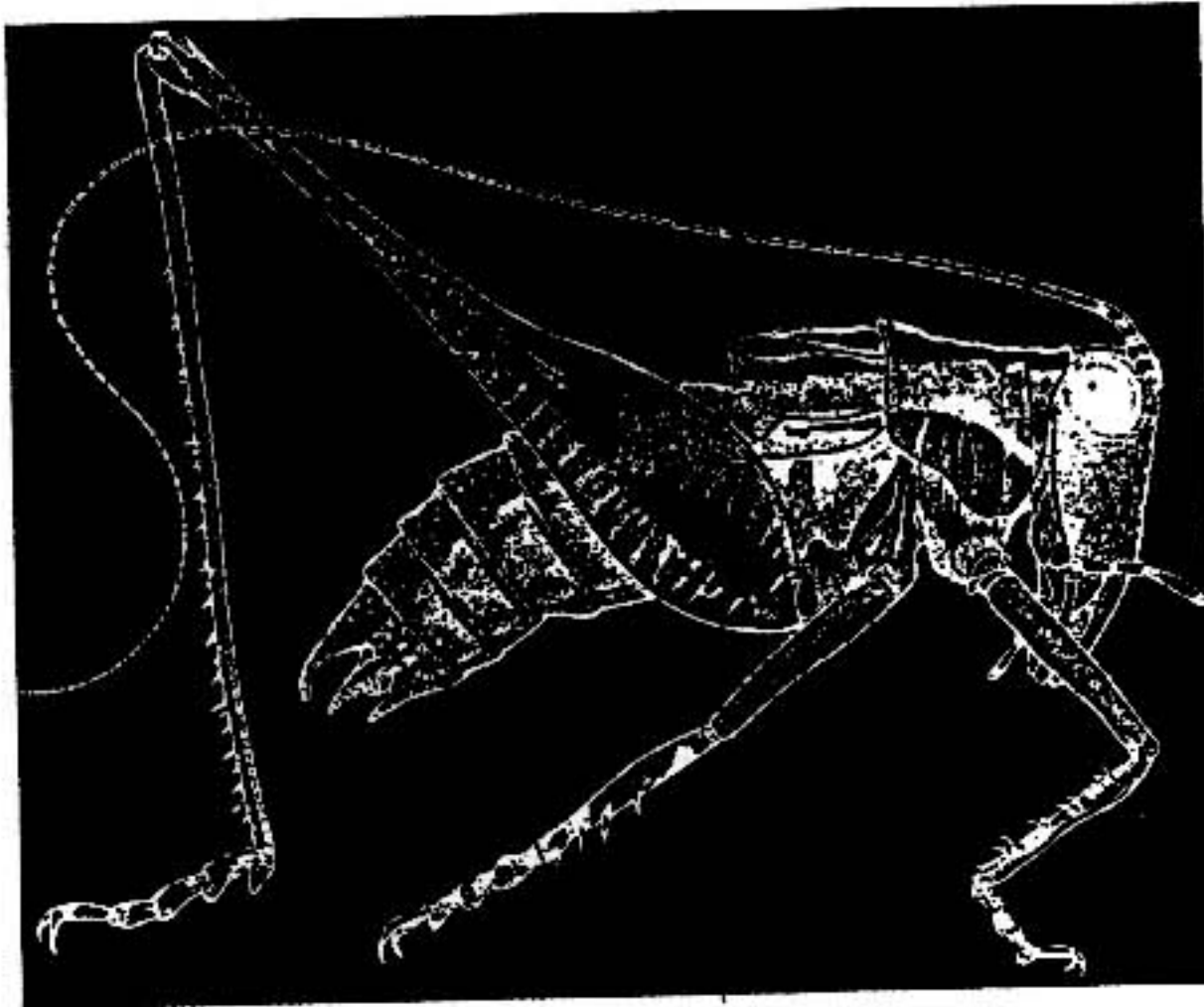
All manuscripts and correspondence should be sent to:

David A. Nickle, Editor
Systematic Entomology Laboratory, U. S. D. A.
c/o National Museum of Natural History NHB-168
Washington, DC 20560
(202) 382-8982 tel.
(202) 786-9422 FAX
e-mail: mnhen117@sivm.si.edu



GRASSHOPPER Country

Includes Audio CD



Australia's Abundant Orthopteroid Insects *D Rentz*

For the first time, Australian Orthopteroid Insects are documented comprehensively.

This book covers the classification, biology and ecology of the Australian fauna. Every group of Australian orthopteroid insects is discussed with identifying features, collecting techniques, culture methods and preservation techniques specified. Each family, subfamily, tribe, and genus (in many instances) is reviewed with examples documenting the discussion. Keys to all groups are provided, some to the species level. An extensive bibliography allows the reader entry into the wealth of literature on this group of insects.

The book also provides information on photography clubs, special interest groups and recipes and formulas for foods and preservatives.

GRASSHOPPER Country

Features

- All four orders of Orthopteroid Insects for Australia: Orthoptera (grasshoppers, crickets, katydids and others); Blattodea (cockroaches); Mantodea (mantids); and Phasmatodea (stick insects)
- Profusely illustrated with 425 colour illustrations plus numerous line drawings, scanning electron micrographs and black and white photographs
- Keys to all families, subfamilies, tribes and some species
- Biology and ecology for all groups summarised
- Chapters on collecting rearing and preserving
- Extensive bibliography, fully indexed
- List of clubs and organisations you can join to further your interest

Audio CD

- The only comprehensive recording of these insects available and first-time recording for most species
- Covers more than 130 species
- Full documentation of all recordings including common and scientific names

Readership

Amateur and professional entomologists, conservationists, field naturalists and students at secondary and tertiary level.

300pp. approx., col. illus. hardcover plus audio CD, ISBN 0 86840 063 7 \$79.95

Post or Fax this order form now

Please send me copy(ies) of *Grasshopper Country* @ \$79.95 (for customers outside Australia or New Zealand \$US 79.95)

Name.....

Address.....

.....Postcode.....

Country

I enclose a cheque, money order or credit card authorisation payable to CSIRO for \$.....

Please charge my Bankcard Visa Mastercard American Express Diners

Card number

Expiry date Signature

Send your order to:

CSIRO Publishing PO Box 1139 Collingwood 3066 Victoria Australia

Fax: +61 3 9662 7555 Ph: +61 3 9662 7666 Freecall 1800 645 051

Email: sales@publish.csiro.au



NOTICES

Mantis Study Group

Membership Secretary & Treasurer:

Paul Taylor

24 Forge Road, Shustoke, Coleshill,
Birmingham, B46 2AU, U.K.

☎ 01675 481578

E-mail: 100701.766@compuserve.com

The Mantis Study Group (MSG) was formed in May 1996 to facilitate the study and rearing of praying mantids. Membership is open to anyone with an interest in these insects.

The MSG aims to produce a Newsletter every three months. This will contain a variety of articles with an emphasis on captive breeding.

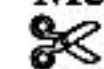
There is currently a livestock co-ordinator for the U.K. and it is hoped that when membership increases there will be volunteers to co-ordinate livestock in other countries. The livestock coordinator has two tasks:

1. Maintain a list of members who have males available for breeding so that members can contact the co-ordinator if they have a female which requires a mate.
2. Maintain a list of members wanting newly hatched nymphs, so other members can easily disperse their surplus stock.

This system works only if members keep the co-ordinator up to date with what they have available for loan or distribution. Members receiving livestock are responsible for paying the postage costs of the person sending the livestock. It is hoped members will not charge for newly hatched nymphs (especially of species that produce large numbers), and an agreement to share oothecae is preferable to charging for the services of males. However, the decision to give away or to charge for livestock is left to the discretion of the supplier.

A list of names, addresses and telephone numbers of members is issued, which must not be passed on to any other individual or organisation.

Membership runs from 1st January to 31st December.



Membership Application Form

The subscription for the year 1996 is £5.00 (UK), £6.50 (Europe), £7.50 (World-wide). See reverse of sheet for methods of paying. Please make your remittance payable to **The Mantis Study Group** and send it to the Membership Secretary at the above address.

Full Name: _____ Age: _____

Address: _____

Home Telephone No.: _____

Species kept: _____

Particular interests in mantids: _____

Where did you obtain this membership form? _____

Membership outside the UK

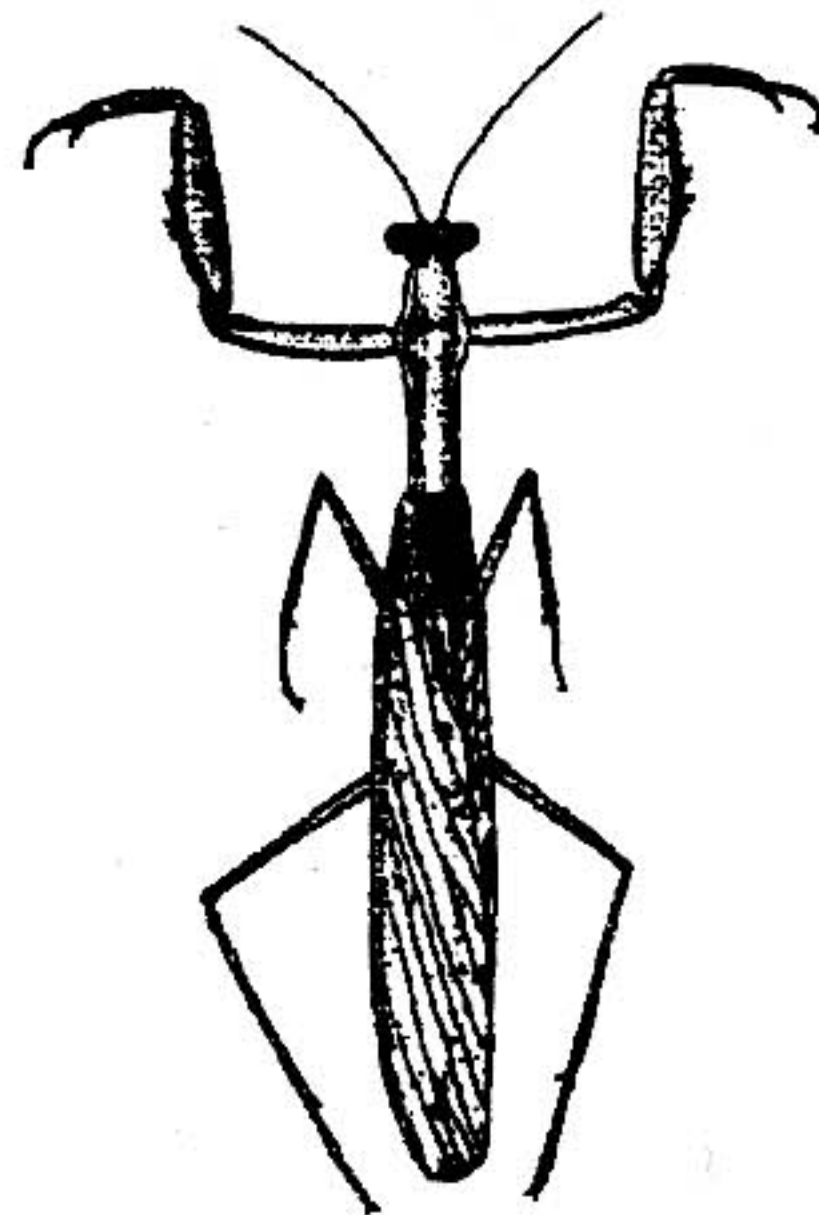
Payment from abroad must be in Sterling, or extra must be included to cover the cost of currency conversion. If you know of other people in your country who wish to join the MSG you are advised to join at the same time and share the cost of buying a cheque.

Payment should be made by one of the following methods:

1. Sterling cheque for £6.50 (Europe) or £7.50 (World-wide).
2. If you wish you may send bank notes in your own currency to a value equivalent to £6.50 (Europe) or £7.50 (World-wide) **Plus** an extra £3.00 to cover the fee of exchanging the currency. There is a small risk that bank notes may be lost in the post, so if you send bank notes this is **done at your own risk**.

Annual subscription renewal

Once the MSG has more members we plan to have one volunteer per country to co-ordinate payments for members in that country.



NEW MEMBERS, *continued*

Timothy J. McNary
USDA-APHIS-PPQ
504 W. 17th St.
Suite 200
Cheyenne, WY 82001
USA

David C. Marshall
Insect Division
Museum of Zoology
University of Michigan
Ann Arbor, MI 48109-1079
USA

Anna Maryanska-Nadachowska
Institute of Systematics
and Evolution of Animals
Polish Academy of Sciences
Slawkowska 17
31-016 Kraków
POLAND

Simon Morris
P.O. Box 19
Darfield
NEW ZEALAND

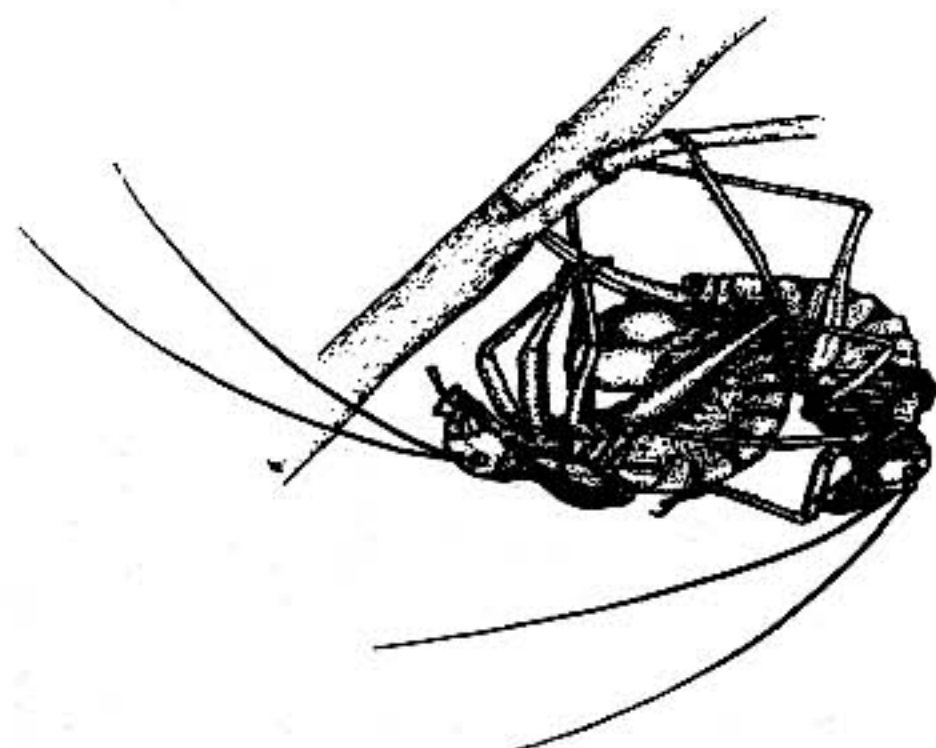
Hans-Joachim Pflüger
Freie Universität Berlin
Inst. Neurobiology
Königin-Luise-Strasse 28-30
D-14195 Berlin
GERMANY

Karim Vahed
University of Derby
Kedleston Road
Derby DE22 1GB
UNITED KINGDOM

Ludmilla V. Vysotskaya
Dept. of Cytology and Genetics
Novosibirsk State University
St. Pirogov 2
Novosibirsk 630090
RUSSIA

Elzbieta Warchalowska
Institute of Systematics
and Evolution of Animals
Polish Academy of Sciences
Slawkowska 17
31-016 Kraków
POLAND

Yen Fan Sheng
Dept of Entomology
National Chung Hsing University
Taichung 40227
Taiwan
REPUBLIC OF CHINA



THE ORTHOPTERISTS' SOCIETY *FIELD GUIDE* SERIES

The *Field Guides* are pocket-sized publications intended for use in the field by workers concerned with pest species of locusts or grasshoppers, in English, French or Spanish, or combination of these, as appropriate for the intended region.

The series originally was arranged in four parts: Introduction; General Topics; Specific Pests; and Pest Species of a Region. It was set up as an open-ended series in each of the latter three categories so that other *Field Guides* could be added in any of them should this become desirable.

Field Guides are not intended to be sold; they are for free distribution by FAO, CIRAD/PRIFAS, or other organization in a region where they will be useful.

All manuscripts are subject to peer review (after general editing) and may be returned to authors for revision; all pages from the printing firm will be sent to authors for checking before final printing. [I was unable to have authors make final checks before printing in 1991, due to unexpected deadline imposed on funding so that all *Guides* had to be printed and printing firms paid by that date. Some errors exist in 4 of the printed *Field Guides*].

Only one paper was written in the B series, that by Dr. S.K. Gangwere and published as B4E. It might have been better to dispense with the B series. I deliberately shelved the Introductory (A) series, although these were ready for printing in all three languages. It seemed pointless to pay for printing the introduc-

tory *Guides* unless funds were available for publication of the entire series. Also, I decided not to print the *Field Guide* on North American pest species because other parts of the world have problems that are more serious than in that region. I have shelved the four *Field Guides* that I have written at a cost of considerable personal time and effort. I may eventually have the North American guide printed at personal cost but the introductory ones are permanently shelved.

If the project has to be discontinued, Dr. Gangwere has undertaken to publish the manuscripts at hand in a single volume, provided that I supply him with the completely edited manuscripts.

Should another source of funding be found, I am prepared to continue working on the *Field Guides* on behalf of the Society. I thought there would be no difficulty in obtaining funding once the quality of the original 12 *Field Guides* was seen, but so much for day dreams. This has not happened, except in the case of the *Guide* on pests of Australia for which the cost was underwritten by The Biological and Chemical Research Institute, Entomology Branch, New South Wales Agriculture. This guide was published and has been sent to Australia.

Lists showing the intended topics and the results to date can be obtained from:

V. R. Vickery
Editor, Field Guide Project
102 Souvenir Drive
Pinecourt, Quebec J7V 3N8
CANADA

NOTICE

Lyman Entomological Museum and Research Laboratory Note 17 Publications by the late Dr. D.K.McE. Kevan

The list of publications by Keith Kevan has been compiled by V.R. Vickery to the end of 1992. The list, together with a brief profile of Kevan, has been published by the Lyman Entomological Museum, 68 pages. As the museum is in financial difficulty, there is a small charge (\$5.00) per copy. In addition Canadian postal rates have been increased recently so that the following postage charge has to be added:

within Canada - \$1.50; U.S.A. - \$2.35; foreign - \$5.00

Order from:

Lyman Entomological Museum and Research Laboratory,
McGill University, Macdonald Campus,
21,111 Lakeshore Road, Ste-Anne-de-Bellevue
QC, Canada, H9X 3V9. Ask for Note 17.

BOOKS AND NOTICES

THE ORTHOPTERISTS' SOCIETY

The Orthopterists' Society (formerly Pan American Acridological Society) is an international scientific organization devoted to facilitating communication among those interested in Orthoptera and their allies. Research and publication are fostered in all aspects of the biology of these insects from ecology and taxonomy to physiology, endocrinology, cytogenetics, and control measures.

The Society was founded in 1978 by some 50 orthopterists meeting at San Martin de los Andes, Argentina. Its constitution and by-laws were adopted in 1979, and it was accorded tax-exempt status by the United States government shortly thereafter. The meetings held since San Martin have been at Bozeman (United States), Maracay (Venezuela), Saskatoon (Canada), and Valsain, Segovia (Spain). The last meeting was held on August 2-6, 1993, at Hilo, Hawaii (USA).

Symposia, round table discussions, and research papers presented at the Society meetings are published in the *Proceedings of the Orthopterists' Society*, and a newsletter, *Metaleptea*, is issued semi-annually. Information regarding these publications can be obtained from the editor, Dr. D. A. Nickle, USDA, c/o National Museum of Natural History, NHB-168, Smithsonian Institution, Washington, D.C. 20560, USA.

The 1993-1997 Governing Board comprises President David C. F. Rentz (Australia), President-elect Theodore J. Cohn (USA), Past President Daniel Otte (USA), Treasurer Roger Bland (USA), Regional Representatives Rodger Farrow (Australia), J. A. Lockwood (USA), and Paul Penev (Israel), Executive Director Jeffrey Lockwood (USA), Editor, D. A. Nickle (USA), and Editor of the new *Journal of Orthoptera Research*, N. D. Jago (United Kingdom).

Society business and finances are handled by the Executive Director, Jeffrey A. Lockwood, Plant, Soil, and Insects Department, University of Wyoming, Laramie, WY 82071, USA.

All correspondence relating to *Metaleptea* or the *Proceedings of the Orthopterists' Society* should be addressed to the Editor, Dr. David A. Nickle, USDA, Systematic Entomology Laboratory, c/o U.S. National Museum of Natural History, Smithsonian Institution NHB-168, Washington, D.C. 20560 USA.

Correspondence and information regarding the new journal series, *Journal of Orthoptera Research*, should be addressed to Dr. D. Otte, Managing Editor, Academy of Natural Sciences, 19th & the Parkway, Philadelphia, PA 19103 USA.

MEETINGS: Meetings of the Orthopterists' Society are held on a triennial basis, in the United States, Latin America, Canada, or other location, worldwide, in rotation. Symposia, research papers, and business conducted at the Meetings are published in the *Proceedings of the Orthopterists' Society*.

MEMBERSHIP: Membership is open to anyone expressing an interest in Orthoptera and related orders. Annual dues for members are US \$15 for Active Members, US \$7 for students and US \$25 for institutions. Members receive *Metaleptea*, and, upon payment of an additional charge, other Society publications.

PUBLICATIONS: The Society's publications include a newsletter, *Metaleptea*, which is published as news becomes available, but on at least a biannual basis, the *Proceedings of the Orthopterists' Society*, which is published triennially in conjunction with the Meetings, *Occasional Papers*, an irregularly published journal for medium- to large-sized papers dealing with research on any aspect of Orthopteroidea orders, and a new journal series, the *Journal of Orthoptera Research*, a refereed journal devoted to research articles of a small to medium size. For information regarding any of these publications, contact the Editor, Dr. David A. Nickle, USDA, Systematic Entomology Laboratory, c/o U.S. National Museum of Natural History, Smithsonian Institution NHB-168, Washington, D.C. 20560 USA.

Publications on Orthopteran Diversity

ORTHOPTERA SPECIES FILE

1

CRICKETS (GRYLLOIDEA)

A Systematic Catalog

by DANIEL OTTE

Published by

THE ORTHOPTERISTS' SOCIETY

and

THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

Department of Entomology, Academy of Natural Sciences, 1900 Benjamin Franklin Parkway
Philadelphia, PA 19103 USA

Reviews of Orthoptera Species File, Numbers 1-5. Grylloidea and Acridomorpha

This is the first time that the literature on orthopteroids has been brought together in a single series and will be indispensable for research workers on orthopteroid insects in the future. I have used it extensively and have found it to be an invaluable tool in research. The general arrangement is good and easy to follow. I recommend it highly. Every library and research establishment should have it. I wish to express my admiration to Dan Otte and his helpers for this tremendous upgrading of the accessibility to data concerning this section of the orthopteroid insects. I hope the series will be continued to include all of the remaining taxa, those of the "Ensifera" ("Grylloptera").

From a review by V. R. Vickery for *Ent. Soc. Canada* 28(2): 68-70.

This massive undertaking by Dan Otte will be the cornerstone of orthopteran research for many years to come. The five volumes so far published cover the Grylloidea (Volume 1, 3,511 species listed) and the Acridomorpha (Volumes 2-5, with over 10,000 species). In addition to full synonymies, type locations and general distributions of the species are given. Where appropriate, subspecies are also documented.

While this may seem to be a work for taxonomists, anyone doing comparative studies on insects in these groups will have cause to refer to the File. What is the geographical distribution of this subfamily? To what extent has this genus diversified? Even, have I given the correct name? The answers to these and many more questions are to be found in these books. They form an essential underpinning for any of our studies that go beyond the single species, whether our primary interest is in ecology, behavior, morphology, physiology or, needless to say, taxonomy, phylogeny and evolution.

Just turning the pages, and noting the passing comment "I have consulted the entire Zoological Record...", gives one an appreciation of the work involved in this compilation. It is a labor, not just of love, but of enduring value to all of us. It is a must for the library of any institution involved in teaching or research on Orthoptera.

Reg Chapman, University of Arizona

For information about the Orthoptera Species File, write to:
Orthoptera Species File
Department of Entomology
Academy of Natural Sciences
1900 Ben Franklin Parkway
Philadelphia, PA 19103

NOTICE

Members needing copies of past PAN AMERICAN ACRIDOLOGICAL SOCIETY or ORTHOPTERISTS' SOCIETY publications are reminded that a small number of virtually all volumes and numbers is on hand at the Directorate. Prices (in US currency) are as follows: *Metaleptea* @ \$1.50 per number or \$3.00 per volume of 2 (two) numbers, *Proceedings* @ \$10.00 per volume, and *Occasional Papers* No. 1 @ \$4.40. Please advise of the volumes and numbers desired and send remittance to: S.K. Gangwere, Executive Director, Orthopterists' Society, c/o Department of Biological Sciences, Wayne State University, Detroit, MI 48202, USA. Orders may also be filled by invoice; simply ask to be billed.