March 1991

Volume 5, No. 1, March 1991 Covers and Ads

Follow this and additional works at: http://digitalcommons.unl.edu/insectamundi

Part of the Entomology Commons

http://digitalcommons.unl.edu/insectamundi/426

This Article is brought to you for free and open access by the Center for Systematic Entomology, Gainesville, Florida at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Insecta Mundi by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.
INSECTA MUNDI

Volume 5, No. 1, March 1991

DIPTERA
Gustavo R. Spinelli & Willis W. Wirth. The Neotropical Predaceous Midge of the genus Bezzia (Ceratopogonidae) Part IV. The dentifemur and venustula Groups ........................................... 1

COLEOPTERA

LEPIDOPTERA
Stephen R. Steinhauser - Six new species of Skippers from Mexico (Hesperiidae: Pyrginae and Heteropterinae) ................................................................. 25

MYRIAPODA

BIBLIOGRAPHY

NOTES
John M. Kingsolver - New Locality and Host Records for South American Acanthoscelides (Coleoptera: Bruchidae) ................................................................. 24

R.M. Marengo and W.H. Whitcomb - Discovery of the Boll Weevil, Anthonomus grandis Boheman in Paraguay (Coleoptera: Curculionidae) ........................................... 44

M.C. Thomas, Editor
INSECTA MUNDI

INSECTA MUNDI (ISSN 0749-6737) is the quarterly journal of The Center for Systematic Entomology. Short papers on broadly defined insect systematics are published, including descriptions of new taxa, informal taxonomic notes, bibliographies, checklists, catalogs, and reviews.

For papers about new insect species, INSECTA MUNDI provides authors early publication so that the species may be included in other books and catalogs. Authors are fully responsible for the contents of their papers, however, all papers are reviewed by the Editorial Board and by individuals with special expertise. Acceptance by a majority of the Editorial Board is a requirement for publication.

Research notices and other noncommercial news are published at the discretion of the Editorial Board. New literature reviews are published also.

INSECTA MUNDI is distributed worldwide to entomology libraries and systematists. Announcements and advertisements are accepted; rates upon request.

SUBSCRIPTIONS (four issues per year)

Individuals: $25.00 per year
Libraries: $50.00 per year
Foreign subscribers add $6.00 for postage

Send subscription orders to:
Center for Systematic Entomology, Inc.
P.O. Box 147100
Gainesville, FL 32614-7100 USA

MANUSCRIPTS

Send manuscripts and queries to:
M.C. Thomas, Editor
INSECTA MUNDI
c/o Florida State Collection of Arthropods
P.O. Box 147100
Gainesville, FL 32614-7100 USA

Notice of acceptance/rejection sent within two weeks. Include (U.S.) postage if you want your manuscript returned.

No page charges are made. However, all authors are required to subscribe. Separates may be ordered on acceptance.

INSTRUCTIONS TO AUTHORS

1. All papers must adhere to the International Rules of Nomenclature.

2. Papers are limited in length to 25 printed pages. Longer papers may be published in parts, or the author(s) may elect to pay the full price of additional pages; details upon request.

Papers may be in English, French, German, Italian, Portuguese, or Spanish. An English summary is required for non-English papers. Publisher will design, typeset, and assemble text and artwork for publication.

5. Each new taxon must be illustrated and included in a new key, or as an addendum to an existing key. The only exceptions to this rule are:
A. the publication of a replacement name for a homonym, or
B. for a new combination of a species or subspecies.

6. Type species of each genus must be stated, with the manner of designation and reference to the designation.

7. Start the paper with an Abstract defining your conclusion. Follow with an Introduction that describes the scope and purpose (not a summary) of the paper.

8. Distribution data may be summarized. For new taxa or comprehensive species studies, full data from labels may be given. Include the names of the collections in which the specimens are deposited.

9. List references under Literature Cited; follow the format shown in this issue.

10. Footnotes are prohibited; use Text Notes at the end of the paper. Provide a separate sheet/file with captions and legends for photos, tables, and artwork.

11. Text: The publisher uses MS-DOS personal computers to prepare each issue. When possible, supply your paper on MS-DOS 360k 5-1/4" diskettes and a hardcopy printout. Most popular word processor formats are acceptable; write for instructions. Text may be submitted in ASCII format, but special preparation is required; write for instructions.

Other computer formats and typewritten papers will be converted and charged to the author at cost.

12. Photos, Tables, and Artwork: Whenever possible, illustrations should be assembled into plates. Maximum dimensions of printed artwork are: 1-column 3.25" x 9" (2.75:1) and 2-column 6.75" x 9" (1:3:1). Please take these dimensions and proportions into account when assembling plates. Number individual figures. Use scale lines. Attach captions to back of illustration. Do not mix photos and line art on the same plate. Photos extra: $10 per page. Color available at extra cost. Artwork will be returned on publication, but not manuscript or electronic media unless specifically requested.

Center for Systematic Entomology, Inc.
P.O. Box 147100, Gainesville, FL 32614-7100 U.S.A.
SPECIAL FOR: INSECTA MUNDI subscribers through October 31, 1991 if this ad is cited with order and payment is in advance by check or credit card (VISA or MASTERCARD).

We are publishing many books of particular interest to Entomologists. Many are listed in this ad. Our complete catalog is also available for the asking. Book orders are sent by U.P.S. Add $2.50 for first book and 1.00 for each additional book for shipping, and use street address, not P. O. Box number. Discount prices in effect through October 31, 1991.

**NEW:**


Biology and classification of the insect orders Ephemeroptera (Mayflies) and Plecoptera (Stoneflies) discussed in 53 articles by the leading specialists in these group; covers systematics, biology, physiology, and ecology throughout the world.


Essays by famous American entomologists, including Knipling, Metcalf, Morse, and 55 others, about their specialties in entomology, their part in the development of the science, and their enjoyment of their work.


This is a list of the naturalists of the World as an index to PIFON (Permanent International File of Naturalists), including the PIFON data base number for each naturalists, their mailing address, phone number, and interest statement. The book includes a detailed geographical index useful to the user for locating naturalists when on a field trip. The extensive subject index enables the owner to locate specialists as well a generalists, a feature of particular help in finding those interested in topics other than the users own speciality. Most systematists will find this useful reference a necessary working tool.


This catalog lists all family-group (family, subfamily, tribe, subtribe) and genus-group (generic or subgeneric) names which have been proposed for the Ephemeroptera, both recent and fossil, including the hierarchical classification of the order.


As a review of the status of biogeography in the West Indies at the end of the century, this book, which emphasizes endemic species and their evolution, serves as a synthesis of our knowledge of a broad range of topics of relevance to West Indian biogeography.

**REMINDER:** All books previously published under the "Flora & Fauna Publications" imprint are in stock in our warehouse only. They may be obtained directly from us or through your own dealer. This includes the LEPIDOPTERORUM CATALOGUS, Fasc. 118, Noctuidae Discount price: $175.00, 3 vol. set and Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States. Discount price: $47.00 (SEE OUR BOOK CATALOG)

Send orders with payment to the address below. If you use credit card, please give number, expiration date, and sign order. Add suitable amount for shipping. Florida residents must add 6% sales tax.

Please recommend our books to your librarian.

THE SANDHILL CRANE PRESS, INC.
P. O. Box 147050 ⋅ Gainesville, FL 32614 ⋅ U. S. A.
Phone: (904) 375-6610 ⋅ FAX (904) 373-9749
ASSOCIATION FOR TROPICAL LEPIDOPTERA

TROPICAL LEPIDOPTERA

The Association for Tropical Lepidoptera, Inc., a non-profit organization for the support of studies on tropical and subtropical Lepidoptera worldwide and their conservation, publishes the new scientific and popular journal, Tropical Lepidoptera. The journal currently is semi-annual, with issues in May and November. The first volume has been issued in 1990.

Basic membership in the Association and subscription is $25 per year for the journal and a quarterly newsletter.

TROPICAL LEPIDOPTERA is a full-color journal in large format (8½ x 11 inches). The two issues for 1990 contained 169 color illustrations in 92 pages of text. The journal is a combination of scientific articles, including taxonomic revisions and descriptions of new species, together with more general articles on habitats and conservation of tropical and subtropical moths and butterflies.

Key points of Tropical Lepidoptera:
— full-color semi-annual scientific journal
— articles mainly in English but can be in French, German, Portuguese, and Spanish
  (Chinese and Japanese are also accepted with an extensive English summary)
— fully abstracted in Biological Abstracts and Zoological Record
— articles peer-reviewed for scientific quality

Recent comments about Tropical Lepidoptera:
Richard L. Brown, Mississippi Entomological Museum, MS
  The first number of "Tropical Lepidoptera" is outstanding. The color photographs set a standard for a technical publication of this sort.

E. O. Wilson, Museum of Comparative Zoology, Harvard University, MA
  It is dazzling, riveting—located at the interfaces of natural history, conservation, and professional entomology.

The journal is essential for every research library and for libraries interested in tropical and subtropical faunas of the world, their study and conservation.

SUBSCRIPTIONS/MEMBERSHIP
$25 per year (Tropical Lepidoptera and News)
(other categories: Sustaining, $35; Patron, $100; Benefactor, $500; Life Member, $1,000)

Send payment in US Dollars to the Association for Tropical Lepidoptera.
(cash can be sent in banknotes as follows: US$ 25, DM 45, Fr 150, £ 15, NT$ 750, ¥ 4000)

ASSOCIATION FOR TROPICAL LEPIDOPTERA, Inc.
c/o Florida State Collection of Arthropods, P. O. Box 147100, Gainesville, FL 32614-7100
Tel: (904) 372-3505, ext. 139    FAX: (904) 372-2501
The Center for Systematic Entomology is a non-profit support organization for systematic entomology at the Florida State Collection of Arthropods, as well as for the systematics community in general. Becoming a member of this organization lends your support for curation and systematic studies at the FSCA and any related activities such as field studies and grants to individuals, for the enhancement of systematics and the FSCA. As the Center increases its endowment, a priority goal is to increase systematic studies of arthropods of the world in general.

In 1990 a grants program was begun with up to $600 in two individual grants per year, for studies on FSCA specimens or for other systematic studies related to the development of the FSCA and our knowledge of arthropod biology and taxonomy. Two grants were awarded in 1990. This is a useful program we hope to continue at higher rates in the future and with your support.

In 1991 the CSE has commenced publication of the scientific journal Insecta Mundi, which was previously published by Sandhill Crane Press. We hope you will provide your support of this excellent new journal, now in its fifth volume, and also subscribe, which as a member you receive at 20% off the subscription rate.

**INSECTA MUNDI**

*Insecta Mundi* is now the official journal of the Center for Systematic Entomology (Sandhill Crane Press is currently publishing the journal on a non-profit basis). This quarterly scientific journal devoted to systematic entomology, and offering free page charges to subscribers, provides for rapid publication (within 3-6 months) in a large format (8 1/2 x 11 inches), and a peer-reviewed journal. The journal is also indexed in all major abstracting services. Systematic entomology is greatly benefitted by this journal. Your separate subscription provides 4 issues of the journal and allows you to publish in the journal without any page charges (separates are extra). Please also have your library subscribe ($50.00 per year) in addition to yourself. Members of the Center get a 20% discount on *Insecta Mundi* (only $20 per year).

Your dues, subscription to *Insecta Mundi*, and any other contribution, are all tax-deductible (use your cancelled check as verification for IRS).

J. B. Heppner  
Secretary/Treasurer

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE dues ($15.00)</td>
<td></td>
</tr>
<tr>
<td>Contribution</td>
<td></td>
</tr>
<tr>
<td><strong>INSECTA MUNDI 1991</strong> ($20.00)</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
</tr>
</tbody>
</table>

Name: ____________________________

Address: ____________________________

City: ____________________________ State: __ ZIP: __________
Volume 5, No. 2 - June 1991

COLEOPTERA
Richard B. Selander. On the Nomenclature and Classification of the Meloidae .................................................. 65

HYMENOPTERA
W.R.M. Mason. A New Genus of Exodont Ichneutinae (Braconidae) .......................................................... 95

COLEOPTERA
Ted C. MacRae. The Buprestidae of Missouri .................................................................................................. 101

COLEOPTERA
M.C. Thomas. Rediscovery of Romulus globosus Knull (Cerambycidae) ......................................................... 127

M.C. Thomas, Editor
The Center for Systematic Entomology is a non-profit support organization for systematic entomology at the Florida State Collection of Arthropods, as well as for the systematics community in general. Becoming a member of this organization lends your support for curation and systematic studies at the FSCA and any related activities such as field studies and grants to individuals, for the enhancement of systematics and the FSCA. As the Center increases its endowment, a priority goal is to increase systematic studies of arthropods of the world in general.

In 1990 a grants program was begun with up to $600 in two individual grants per year, for studies on FSCA specimens or for other systematic studies related to the development of the FSCA and our knowledge of arthropod biology and taxonomy. Two grants were awarded in 1990. This is a useful program that we hope to continue at higher rates in the future and with your support.

In 1991 the CSE has commenced publication of the scientific journal *Insecta Mundi*, which was previously published by Sandhill Crane Press. We hope you will provide your support of this excellent new journal, now in its fifth volume, and also subscribe, which as a member you receive at 20% off the subscription rate.

**INSECTA MUNDI**

*Insecta Mundi* is now the official journal of the Center for Systematic Entomology (Sandhill Crane Press published the journal for volumes 1-4). This quarterly scientific journal devoted to systematic entomology, and offering free page charges to subscribers, provides for rapid publication (within 3-6 months) in a large format (8 1/2 x 11 inches), and a peer-reviewed journal. Color illustrations can be included at modest cost. The journal is also indexed in all major abstracting services. Systematic entomology is greatly benefitted by this journal. Your separate subscription provides 4 issues of the journal and allows you to publish in the journal without any page charges (separates are extra). Please also have your library subscribe ($50.00 per year) in addition to yourself. Members of the Center get a 20% discount on *Insecta Mundi* (only $20 per year).

Your dues, subscription to *Insecta Mundi*, and any other contribution, are tax-deductible (your cancelled check is verification for IRS). Current members, please renew now for 1991.

| J. B. Heppner |
| Secretary/Treasurer |
| CSE dues ($15.00) |  |
| Contribution |  |
| INSECTA MUNDI Vol. 5, 1991 ($20.00) |  |
| **TOTAL** |  |

Name: ________________________________

Address: ________________________________

City: ___________________________ State: ______ ZIP: ___________
Volume 5, No. 3-4 - September-December 1991

Hymenoptera
- J.C. Luhman. A revision of the world Amphibulus Kriechbaumer (Ichneumonidae, Phygaedutinae) .................................................................................................................. 129
- C. Kugler. Stings of ants of the tribe Ectatommini ........................................................................................................ 153

Diptera
- G.R. Spinelli and M.E. Martinez. The genus Culicoides in Uruguay (Ceratopogonidae) ....... 175

Hymenoptera
M.C. Granara de Willink. Una nueva especie de Ferrisia Fullaway en la República Argentina (Pseudococcidae) .............. 181

Lepidoptera
- S. Passoa. Color identification of economically important Spodoptera larvae in Honduras (Noctuidae) .................. 185

Scorpiones
- W.D. Sissom and S.A. Stockwell. The genus Serradigitus in Sonora, Mexico, with descriptions of four new species (Vaejovidae) ......................................................................................... 197
- W.D. Sissom. The genus Vaejovis in Sonora, Mexico (Vaejovidae) ..................................................................... 215

Coleoptera
A. Smetana. Philonthus furvus Nordmann, 1837, and its allies in Mexico and Central America (Staphylinidae) ................................................................. 227
- C.L. Staines. Type species of New World Hispinae genera (Chrysomelidae) ......................................................... 247

Book Review
A. Van Pelt
Applied Myrmecology: A World Perspective. by R.K. Vander Meer, K. Jaffe, and A. Cedano (eds.) .... 180

Notices
CSE grants report ................................................................................................................................................. 226

M.C. Thomas, Editor
INSECTA MUNDI

INSECTA MUNDI (ISSN 0749-6737) is the quarterly journal of The Center for Systematic Entomology. Short papers on broadly defined insect systematics are published, including descriptions of new taxa, informal taxonomic notes, bibliographies, checklists, catalogs, and reviews.

For papers about new insect species, INSECTA MUNDI provides authors early publication so that the species may be included in other books and catalogs. Authors are fully responsible for the contents of their papers, however, all papers are reviewed by the Editorial Board and by individuals with special expertise. Acceptance by a majority of the Editorial Board is a requirement for publication.

Research notices and other noncommercial news are published at the discretion of the Editorial Board. New literature reviews are published also.

INSECTA MUNDI is distributed worldwide to entomology libraries and systematists.

Announcements and advertisements are accepted; rates upon request.

SUBSCRIPTIONS (four issues per year)

Individuals: $25.00 per year
Libraries: $50.00 per year
Foreign subscribers add $6.00 for postage

Send subscription orders to:
Center for Systematic Entomology, Inc.
P.O. Box 140429
Gainesville, FL 32614-0429 USA

MANUSCRIPTS

Send manuscripts and queries to:
M.C. Thomas, Editor
INSECTA MUNDI
c/o Florida State Collection of Arthropods
P.O. Box 147100
Gainesville, FL 32614-7100 USA

Notice of acceptance/rejection sent within two weeks. Include (U.S.) postage if you want your manuscript returned.

No page charges are made. However, all authors are required to subscribe and to order separates on acceptance.

INSTRUCTIONS TO AUTHORS

1. All papers must adhere to the International Rules of Nomenclature.

2. Papers are limited in length to 25 printed pages. Longer papers may be published in parts, or the author(s) may elect to pay the full price of additional pages; details upon request.

Papers may be in English, French, German, Italian, Portuguese, or Spanish. An English summary is required for non-English papers.

Publisher will design, typeset, and assemble text and artwork for publication.

5. Each new taxon must be illustrated and included in a new key, or as an addendum to an existing key. The only exceptions to this rule are:
   A. the publication of a replacement name for a homonym,
   B. for a new combination of a species or subspecies.

6. Type species of each genus must be stated, with the manner of designation and reference to the designation.

7. Start the paper with an Abstract defining your conclusion. Follow with an Introduction that describes the scope and purpose (not a summary) of the paper.

8. Distribution data may be summarized. For new taxa or comprehensive species studies, full data from labels may be given. Include the names of the collections in which the specimens are deposited.

9. List references under Literature Cited; follow the format shown in this issue.

10. Footnotes are prohibited; use Text Notes at the end of the paper. Provide a separate sheet/file with captions and legends for photos, tables, and artwork.

11. Text: The publisher uses MS-DOS personal computers to prepare each issue. When possible, supply your paper on MS-DOS 360k 5-1/4" diskettes and a hardcopy printout. Most popular word processor formats are acceptable; write for instructions. Text may be submitted in ASCII format, but special preparation is required; write for instructions.

Other computer formats and typewritten papers will be converted and charged to the author at cost.

12. Photos, Tables, and Artwork: Whenever possible, illustrations should be assembled into plates. Maximum dimensions of printed artwork are: 1-column 3.25" x 9" (2.75:1) and 2-column 6.75" x 9" (1.3:1). Please take these dimensions and proportions into account when assembling plates. Number individual figures. Use scale lines. Attach captions to back of illustration. Do not mix photos and line art on the same plate. Photos extra: $10 per page. Color available at extra cost. Artwork will be returned on publication, but not manuscript or electronic media unless specifically requested.

Center for Systematic Entomology, Inc.
P.O. Box 140429, Gainesville, FL 32614-0429 U.S.A.
The Center for Systematic Entomology is a non-profit support organization for systematic entomology at the Florida State Collection of Arthropods, as well as for the systematic community in general. Becoming a member of this organization lends your support for curation and systematic studies at the FSCA and any related activities such as field studies and grants to individuals, for the enhancement of systematics and the FSCA. As the Center increases its endowment, a priority goal is to increase systematic studies of arthropods of the world in general.

In 1990 a grants program was begun with up to $600 in two individual grants per year, for studies on FSCA specimens or for other systematic studies related to the development of the FSCA and our knowledge of arthropod biology and taxonomy. Two grants were awarded in 1990. This is a useful program that we hope to continue at higher rates in the future and with your support.

In 1991 the CSE has commenced publication of the scientific journal Insecta Mundi, which was previously published by Sandhill Crane Press. We hope you will provide your support of this excellent new journal, now in its fifth volume, and also subscribe, which as a member you receive at 20% off the subscription rate.

INSECTA MUNDI

Insecta Mundi is now the official journal of the Center for Systematic Entomology (Sandhill Crane Press published the journal for volumes 1-4). This quarterly scientific journal devoted to systematic entomology, and offering free page charges to subscribers, provides for rapid publication (within 3-6 months) in a large format (8 1/2 x 11 inches), and a peer-reviewed journal. Color illustrations can be included at modest cost. The journal is also indexed in all major abstracting services. Systematic entomology is greatly benefitted by this journal. Your separate subscription provides 4 issues of the journal and allows you to publish in the journal without any page charges (separates are extra). Please also have your library subscribe ($50.00 per year) in addition to yourself. Members of the Center get a 20% discount on Insecta Mundi (only $20 per year).

Your dues, subscription to Insecta Mundi, and any other contribution, are tax-deductible (your cancelled check is verification for IRS). Current members, please renew now for 1991.

J. B. Heppner
Secretary/Treasurer

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE dues ($15.00)</td>
<td></td>
</tr>
<tr>
<td>Contribution</td>
<td></td>
</tr>
<tr>
<td>INSECTA MUNDI Vol. 5, 1991 ($20.00)</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>

Name: ____________________________________________________________

Address: _________________________________________________________

City: __________________________ State: __________ ZIP: ____________
ASSOCIATION FOR TROPICAL LEPIDOPTERA

TROPICAL LEPIDOPTERA

The Association for Tropical Lepidoptera, Inc., a non-profit organization for the support of studies on tropical and subtropical Lepidoptera worldwide and their conservation, publishes the new scientific and popular journal, *Tropical Lepidoptera*. The journal currently is semi-annual, with issues in May and November. The first volume has been issued in 1990.

Basic membership in the Association and subscription is $25 per year for the journal and a quarterly newsletter.

*Tropical Lepidoptera* is a full-color journal in large format (8½ x 11 inches). The two issues for 1990 contained 169 color illustrations in 92 pages of text. The journal is a combination of scientific articles, including taxonomic revisions and descriptions of new species, together with more general articles on habitats and conservation of tropical and subtropical moths and butterflies.

Key points of *Tropical Lepidoptera*:
- full-color semi-annual scientific journal
- articles mainly in English but can be in French, German, Portuguese, and Spanish (Chinese and Japanese are also accepted with an extensive English summary)
- fully abstracted in *Biological Abstracts* and *Zoological Record*
- articles peer-reviewed for scientific quality

Recent comments about *Tropical Lepidoptera*:

Richard L. Brown, Mississippi Entomological Museum, MS

*The first number of "Tropical Lepidoptera" is outstanding. The color photographs set a standard for a technical publication of this sort.*

E. O. Wilson, Museum of Comparative Zoology, Harvard University, MA

*It is dazzling, riveting—located at the interfaces of natural history, conservation, and professional entomology.*

The journal is essential for every research library and for libraries interested in tropical and subtropical faunas of the world, their study and conservation.

SUBSCRIPTIONS/MEMBERSHIP

$25 per year (*Tropical Lepidoptera* and *News*)

(other categories: Sustaining, $35; Patron, $100; Benefactor, $500; Life Member, $1,000)

Send payment in US Dollars to the Association for Tropical Lepidoptera.

(cash can be sent in banknotes as follows: US$ 25, DM 45, Fr 150, £ 15, NT$ 750, ¥ 4000)