

NEWS

of the LEPIDOPTERISTS' SOCIETY

No. 3 May/June 1989

EDITOR

June Preston
832 Sunset Dr.
Lawrence, KS 66044
U.S.A.

ASSOCIATE EDITOR

Ripples
Jo Brewer



ZONE COORDINATORS

- | | | |
|----------------------|------------------|------------------------|
| 1. Ken Philip | 6. Ed Knudson | 10. Dave Winter |
| 2. Jon Shepard | 7. Ross Layberry | 11. J.C.E. Riotte |
| 3. Bob Langston | 8. Les Ferge | 12. Eduardo Welling M. |
| 4. Ray Stanford | 9. Andy Beck | 13. Boyce Drummond |
| 5. Richard C. Rosche | | |

THE OHIO LEPIDOPTERISTS CELEBRATE THEIR TENTH ANNIVERSARY IN 1989

The Ohio Lepidopterists are celebrating their Tenth Anniversary in 1989. The celebration started with a gala weekend of meetings and social activities, January 13-15, in Columbus, Ohio. Seventy members and friends traveled from Ohio, Wisconsin, Michigan, Pennsylvania and Kentucky for the event. Paul Opler, the featured speaker, came from Colorado to highlight the celebration. Other special activities are planned during the year 1989.

The Ohio Lepidopterists eclosed January 10, 1979 at a butterfly and moth education workshop organized by Eric Metzler and Carl Albrecht. Twenty-four fellow lepidopterists in attendance felt an organization was needed to learn more about butterflies and moths in Ohio. An organizational meeting was held in March of that year and a constitution was adopted in September, 1979. The Ohio Lepidopterists ended its first year with 78 charter members.

The members of The Ohio Lepidopterists have been busy over the past ten years. Two or three field trips are held in different parts of Ohio each year. There are two yearly membership meetings, one in the fall (September or October), and the Annual Meeting is held the second week of January. Other field trip activities include trips to major collections in the eastern U.S., including the Carnegie Museum of Natural History in Pittsburgh, The Smithsonian Institution in Washington, D.C., the Field Museum of Natural History in Chicago and Michigan State University in East Lansing, Michigan.

In 1983, The Ohio Lepidopterists hosted the memorable 34th Annual Meeting of The Lepidopterists' Society in Columbus, and they hosted a post meeting field trip after the 39th Annual Meeting in Pittsburgh, 1988. In an effort to inform other Lepidopterists about the study of Lepidoptera in Ohio, at one least one paper about Ohio Lepidoptera is presented at each Annual Meeting of The Lepidopterists' Society.

Exchange of information is important to the Ohio group. The highly regarded quarterly newsletter keeps members informed on happenings and provides information on topics of interest. The newsletter publishes Ohio state lists of lepidoptera and it provides educational information to help members learn more about their favorite hobby, butterflies and moths. The newsletter also features articles about collecting worldwide.

The Ohio Biological Survey at The Ohio State University co-sponsors a publication series, The Ohio Lepidopterists Research Reports. Two publications have been published: Metzler, 1980, Annotated Checklist and Distribution Maps of the Royal Moths and Giant Silkworm Moths (Lepidoptera: Saturniidae) in Ohio; and Albrecht and Watkins, 1983, A Cross-reference to Names of Ohio Skippers and Butterflies (Insecta: Lepidoptera: Hesperioidea and Papilionoidea). Two more major works, Butterflies and Skippers of Ohio, with full color plates, and the Owlet Moths of Ohio (Noctuidae),

are in preparation.

Member involvement, service to members, and the study of Lepidoptera in Ohio are three major focuses of the group. The meetings and field trips are planned both with an eye towards fellowship as well as serious interest in butterflies and moths. All activities are family events - spouses and children are welcome. The field trips usually involve camping for the family. Meetings include open houses at member's homes for informal conversation and refreshments.

The Ohio Lepidopterists has a sales program to help members buy insect pins, glassine envelopes, books, blacklights, mercury vapor lamps and pinning foam. Some items are offered as a service by having the items available at meetings and field trips. The organization buys in quantity and offers the savings to members. Pinning foam, glassine envelopes and most new books are sold to members at considerably less than retail. All items are also available by mail order.

Educating other folks, especially young people about our common interest is very important. One field trip in 1989 focuses specifically on more involvement for young members. Members of The Ohio Lepidopterists also accept speaking engagements to tell other persons about butterflies and moths. The audiences include park naturalists, science teachers, garden clubs, interested children's groups, nature clubs and others. Members help judge 4-H exhibits to assist budding entomologists enjoy their interests.

An original focus of The Ohio Lepidopterists was to survey all the butterflies and moths in Ohio. The Survey of Ohio Lepidoptera was well underway when the Ohio Department of Natural Resources (ODNR) offered a grant to The Ohio Lepidopterists to study eight species of Lepidoptera from Ohio identified by the U.S. Fish and Wildlife Service as potential candidates for endangered or threatened status. The research resulted in a paper in the Journal of The Lepidopterists' Society (Shuey et al., 1987. Status and

Artwork by
John Calhoun
used on the
buttons for the
Anniversary
Meeting in
Columbus this
past January



habitats of potentially endangered Lepidoptera in Ohio. *Jrn. Lepid. Soc.* 41(1):1-12). The Ohio Lepidopterists are now under contract with ODNR for \$50,000 to do a five year comprehensive Survey of Ohio Lepidoptera. The Skippers, Butterflies, Bombycoidea, Sphingidae and Noctuoidea are nearly completed, and the Geometridae, under the leadership of Charles Covell, Jr. is underway for 1989. Approximately 75,000 individual records are included in the computer databases of the survey. Members of The Ohio Lepidopterists report on the survey progress at meetings of The Lepidopterists' Society and at other societies when they can. The ODNR committed \$25,000 to the publication of the Ohio Butterfly book, and plans are underway to publish on Ohio's moth fauna, starting with the Noctuidae.

As we learn more about Ohio's rich fauna, we are also concerned about the survival of some vulnerable species. The society regularly advises the ODNR how to manage resources to accommodate the butterfly and moth fauna. We will also be working with the Ohio Field Office of The Nature Conservancy to produce a Butterfly and Moth Conservation Conference August 19-20, 1989 in northern Ohio. Paul Opler and Ron Panzer are two of the featured speakers to help us educate managers of parks, wildlife areas and preserves about how to include butterflies and moths in their management plans.

The Ohio Lepidopterists are now forming a reference collection of Ohio Lepidoptera to be housed at The Ohio State University. Funded in part by the Ohio Department of Natural Resources, the collection houses voucher specimens and will represent all species of Lepidoptera from Ohio. It will be available for identification and research purposes.

More activities are underway to make a full year of celebration. The Ohio Lepidopterists are commissioning Tom Allen, a wildlife artist from West Virginia to do a limited edition color print featuring the Regal Fritillary. The prints will be on sale later in the year.

The Ohio Lepidopterists is a charitable tax exempt organization and all dues and gifts are tax deductible to the full extent of the law. We invite all persons interested in Butterflies and Moths to become members. It is an excellent organization. The dues are \$7.50 (\$4.00 student) per year. For more information about our group, please write David C. Iftner, 2161 Heatherfield Ave., Worthington, Ohio 43235.

Eric H. Metzler



NSF AWARDS GRANT TO LOS ANGELES MUSEUM.

The National Science Foundation has renewed for another three years its support of the insect collection at the Natural History Museum of Los Angeles County with a grant of \$271,122. The Lepidoptera collection will be a major benefactor of the grant: two full-time technicians will prepare and make available for study a large backlog of material, primarily Neotropical moths.

LYME DISEASE: A HAZARD FOR FIELD BIOLOGISTS

I have recently treated two biologists, one a professional lepidopterist, for Lyme disease. Lyme disease is an inflammatory disorder with skin, nervous system, heart and rheumatologic manifestations. The causative organism is a spirochete transmitted by *Ixodes* ticks. It has been recorded from southern New England, Minnesota, Wisconsin, and portions of California, Oregon, Nevada and Utah. Recent reports from other states such as Texas suggests the disease is continuing to spread. In some rural areas of the Northwest, tick infectivity rates approach 20% and individuals report experiencing up to 35 tick bites per day.

Lyme disease usually begins in summer with a characteristic skin rash at the bite site, however, less than

50% of patients recall the tick bite, probably because the tick is only 1mm in size. A rash develops in approximately 86% of individuals, therefore, some patients do not remember the tick bite and do not experience a skin rash. Other early, commonly reported symptoms include severe fatigue, flu-like symptoms, musculoskeletal pain and headaches. These symptoms may persist for months, even after appropriate oral antibiotics are administered.

Approximately 10-15% of untreated patients will develop neurologic and cardiac complications that usually appear 4-5 weeks after the skin rash. Approximately 60% of untreated patients will develop arthritis weeks to years after the early manifestations of Lyme disease. The arthritis may be intermittent or chronic and may be debilitating.

In summary, early antibiotic treatment will not usually prevent the development of the early mild transient symptoms but almost always prevents the development of the serious chronic sequelae of Lyme disease. Therefore, it is critical for individuals not to ignore the early symptoms. Individuals in the field in endemic areas should wear insect repellent containing DEET and inspect themselves nightly for ticks. Antibiotic therapy is generally prescribed only for *Ixodes* bites followed by a skin rash, therefore, every tick bite does not require a visit to a physician. It is prudent to have annual physical examinations if exposure to ticks is ongoing. Finally, a blood test for Lyme disease is only used to confirm clinical suspicion that the disease is present, as a positive blood test is not always indicative of active disease or the need for treatment.

Robert Godefroi, M.D.

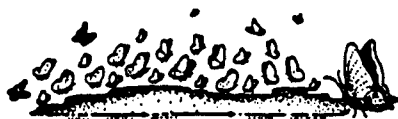
From The Editor's Desk

June Preston



The type font of the NEWS was changed again after NEWS #1 came off the press and seemed rather difficult to read. We experimented with several different fonts and 3 different sizes of type before finally settling on the two we will use. The Season Summary reports were set in Courier 10 pt type with 6 lines to the inch vertical spacing (equivalent to the standard elite type we were using before). The rest of the text is being done in Geneva 11 pt type with 6 lines to the inch vertical spacing. The Geneva is a variable space type whereas the Courier is not. Everything then gets reduced to 73% of its natural size in the printing process. It is this reduction which tends to make certain type fonts harder to read. I am much more satisfied with the readability of NEWS #2, and I hope the membership is also.

In the past couple of months I have received letters from two persons asking to be put in touch with Lepidopterists who would like to exchange butterfly specimens with them. One, Osvaldo Mitre, writes from Argentina that he has South American butterflies to exchange. His address is Padre Fahy 2855, Buenos Aires (1417), ARGENTINA. The other, Piotr Oleszek, writes from Poland. He is a member of the Polish Society of Entomology at the University of Poznan, and mentions that he got my address from Dr. G.G.E. Scudder at the University of British Columbia. He is a lawyer by profession but his hobby is lepidoptera. He writes that he has collected butterflies for some time and that he dreams about acquiring exotic specimens from Brazil, Melanasia, India and Africa. He finds looking at exotic butterflies in a museum to be a great experience. He mentions that exotic butterflies in Poland are very expensive and that his income is quite low so that he cannot buy them, nor has he funds for travel. Anyone interested in exchanging butterflies with him may write to him at Szamarzewskiego 46 m L, Poznan, POLAND. Perhaps a member would even like to give a Society Membership to either of these two gentlemen.



Forthcoming Meetings

THE LEPIDOPTERISTS' SOCIETY 40TH ANNUAL MEETING

The University of New Mexico Biology Department and Richard Holland will host the 40th Annual Meeting of the Society in Albuquerque, New Mexico from Thursday, July 27 to Sunday, July 30, 1989. This will be a joint meeting with the Pacific Slope Section. The preregistration form and more detailed information appears on page 11 of NEWS #1, 1989. It is important that you mail your preregistration form immediately. There will be no general mailing of registration forms or call for papers. Deadline for receiving papers is May 15. To obtain the registration packet, mail the form on page 11 of NEWS #1, 1989 today, if you haven't already done so. For additional information write or call Richard Holland, 1625 Roma NE, Albuquerque, New Mexico 87106, USA. Phone (505) 842-0126.

MICHIGAN ENTOMOLOGICAL SOCIETY

The 35th Annual Meeting and Field Trip of The Michigan Entomological Society will be held June 2 and 3, 1989 at Hidden Lake Gardens near Tipton, Michigan. Hidden Lake Gardens is a living laboratory facility with something for everyone, operated by Michigan State University on a tract of over 670 acres surrounding Hidden Lake, with hiking trails, a visitor's center, meeting rooms, library, gift shop and plant conservatory. Guest speaker on Fri., June 2nd will be Dr. Kenneth A. Christiansen, Professor of Biology at Grinnell College, Grinnell, Iowa, whose presentation will be CAVES - NATURAL EVOLUTIONARY LABORATORIES. A banquet is planned for that evening at the HATHAWAY HOUSE in historic Blissfield. The Saturday field trip will be conducted within the Hidden Lake Gardens complex. For further information and pre-registration forms, please contact Dr. Richard J. Snider, Department of Zoology, Michigan State University, East Lansing, Michigan 48824.

ROYAL ENTOMOLOGICAL SOCIETY 15TH SYMPOSIUM "The Conservation of Insects and Their Habitats"

The 15th Symposium of the Royal Entomological Society will take place in London, England on September 14 and 15, 1989. The subject of this symposium is "The Conservation of Insects and Their Habitats." There will be 4 sessions with papers on Regional Reviews, European Issues, Managing Temperate Lands for Insects, and Special Topics, with speakers from the United States, Australia, New Zealand, Finland, The Netherlands, Switzerland, Brazil, Italy and the United Kingdom. For more information and/or Registration forms and program details, please write G. G. Bentley, Registrar, Royal Entomological Society of London, 41 Queens Gate, London SW7 5HU, England or telephone 01 584-8361.



Research Notices

● REQUEST FOR CONTRIBUTION TO A FORTHCOMING BOOK: We have nearly completed the field work, juvenile studies, and color plates for the book on biological dynamics of the SWALLOWTAILS OF THE AMERICAS which Hamilton Tyler left unfinished when he passed away in 1983. We are now seeking further information on population studies (any species) and juveniles (especially Graphiines, also rarer

Papilio), including loan of color slides of larvae and pupae, adult behavior and habits, and unusual hybrids or aberrations. We are also seeking interesting space fillers, unusual stories or folklore ("Swallow Tales") about the man/papilionid/ habitat interfaces, or the inevitable exaggeration or whimsy ("Hard-to-Swallow Tales"), and especially striking poetry (including Haiku) and cartoons. If previously published or by third parties, these must be accompanied by a full reference to first publication or copyright holder, with address of author/cartoonist or publisher, so that we can request permission to reprint. All accepted material used in the book will be attributed to author or contributor and compensated in cash and/or copies of the book, according to your desires. Among the special items we would like to be able to include, and need to know about or receive copies of papers on, are the following:

- (1) Mark-recapture studies on any American Papilionidae.
- (2) Experimental studies of any sort with field populations - juveniles or adults - or with captive (laboratory) populations.
- (3) Experimental genetics and hybridization studies, especially including cases which "Didn't work"; studies of interfertility, especially in closely related species; breeding through of sets of siblings giving variable adults.
- (4) Any chemical or biochemical studies of swallowtails, their foodplants, or the interface, including feeding experiments.
- (5) Unusual localities or behavior for any species.
- (6) Details of any well-documented swallowtail migration, colonization, or other special behavior including hilltopping, courtship, oviposition and diapause.
- (7) Records of predation on swallowtails or of parasites in juveniles or adults (with correct names for all organisms, please!).
- (8) Studies related to American swallowtail farming and ranching, or conservation.
- (9) Has anyone followed a swallowtail in a hang glider or ultralight airplane?

This could be a chance for you to publish your best slides in color, or have your work appreciated by a wide audience within a broad context of similar studies. We would also be happy if you would like to read and criticize any chapters of the book, within your areas of interest, in manuscript form. Please write to Keith S. Brown Jr. (C.P. 6588, Barão Geraldo, Campinas, São Paulo 13.082 Brazil) or to Kent Wilson (P.O. Box 1097, Edmond, OK 73083-1097, USA) if you have suggestions or material to contribute.

● WANTED for revision of species with M. J. Smith: geographical and seasonal distribution and hostplant records for Thessalia leanira, especially for Idaho, Colorado, Utah (Box Elder, Carbon, Duchesne, Garfield, Piute, Salt Lake, Sanpete, Sevier, Uintah, Wasatch and Wayne counties), California (Calaveras, Fresno, Glenn, Kings, Madera, Merced, Placer, Sacramento, San Benito, San Joaquin, San Mateo, Sutter and Yuba counties), Oregon (except Harney, Jackson, Josephine, Lake and Malheur counties), Baja California Norte (south of Sierra San Pedro Martir). Also any other unusual distribution record. Does anyone know the basis for the reported occurrence in Clackamas County, Oregon in Howe (1975)? George T. Austin, Nevada State Museum, 700 Twin Lakes Drive, Las Vegas, NV 89107, USA.

● BOOKS WANTED: (1) R. H. STRETCH, Illustrations of the Zygaenidae and Bombycidae of North America, San Francisco, 1974, & (2) W. Hy Edwards, Butterflies of North America, complete as published in the MID-CONTINENT LEPIDOPTERA SERIES as microfiches. SHALL PAY THE BEST PRICE. ALL quotations answered. Louis Handfield, 133 Messier #301, Mont St-Hilaire, P.Q. J3H 2W8, CANADA. Phone (514) 467-2091.

● WANTED: Living pupae of Estigmene acrea for behavioral ecology study. Other, easily rearable, Arctiid and Noctuid pupae are of interest as well. Mailing costs reimbursed (U.S.A. only). D. L. Evans, 66 Mill St., Belmont, Massachusetts, 02178.

● I have been studying the distribution and biology of Papilio indra in Utah for about 8 years, and for the last 4 years have been emphasizing P. indra minor and kaibabensis throughout their entire range of Utah, Colorado, New Mexico and Arizona. I am also looking at distribution, use, and preference of their various larval food plants, along with distribution changes in larval parasites, and the frequency of parasitism for these indra races between localities throughout their entire range. I plan to continue this work for maybe 2 more seasons.

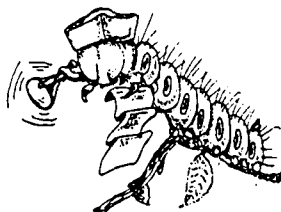
I am interested in correspondence with anyone who has ever collected minor and/or kaibabensis, either adults or immature stages. I need distribution records, but information on food-plants or parasites will also be helpful. I need collecting data for ALL areas, but especially for: **ARIZONA** - Navajo Co. & Apache Co.; **COLORADO** - Montezuma Co. (esp. Mesa Verde Natl. Park and vicinity), La Plata Co., Dolores Co., & San Miguel Co.; **NEW MEXICO** - any records.

Collecting locations will be kept confidential, if preferred, and exact locations will not be published. Contributors will be acknowledged in future publications. Thank you for your assistance. Send correspondence to: Dr. Wayne H. Whaley, Dept. of Zoology, 574 WIDB, Brigham Young University, Provo, UT 84602, USA.

● WANTED: Caterpillar "mummies" and parasitic wasps reared from mummified caterpillars. For revision of braconid genera Aleiodes and Rogas, which mummify lepidopteran larvae. Mummified host caterpillars shrink to smaller than normal size, may discolor, but remain inflated when dry and retain identifiable characteristics. Wasps emerge through a circular emergence hole cut near rear of mummy. Collected mummies should be isolated in separate vials or capsules to keep wasps associated. Please send mummy, wasp, data, name of host caterpillar and host plant (if known). All "mummies" are of interest, but this spring in particular I'm looking for volunteers to help collect mummies of the eastern tent caterpillar, Malacosoma americanum, from as many localities as possible. These are easily found in early to mid-May stuck on the layers of silk inside the tents on wild cherry. Also, I would like help finding mummies of the fall bollworm, Hyphantria cunea, later in the summer. For further information and collecting capsules, please write: Scott R. Shaw, Museum of Comparative Zoology, Harvard University, Cambridge, MA 02138, USA.

● WANTED: Names and locations of commercial distributors or individuals who can supply Clearwing Borer Moth (Sesiidae) pheromone chemicals. These can be chemical companies, research institutions, agricultural outfits, etc. Suggestions or possible leads invited. In return, I will send free Sesiidae pheromone to interested collectors supplying useful information. Dr. John Holoyda, 5407 N. Oketo Ave., Chicago, IL 60656, USA.

Notices



REBIRTH OF UTAHENSIS

UTAHENSIS - A Lepidoptera Journal, has now really come alive again! Back issues are being published frequently & regularly, and hopefully will be fully caught-up by the end of next winter. The latest issue (Vol.8-Iss.3) features The Hemileucinae of Utah by Michael J. Smith, an updated checklist of the butterflies of Utah, and other items. The cost of this issue, singly, is four dollars. The cost of a subscription to Volume 8 (three of whose issues are now published) is \$10.00. If interested, please write to: Col Clyde F. Gillette, Editor, UTAHENSIS, 3419 El Serrito Dr., Salt Lake City, UT 84109.

HUNGARIAN INSECT COLLECTION FOR SALE

A collection of 14,000 butterflies and moths, 4200 other insects and miscellaneous items (beetles, hymenoptera, diptera, scorpions, locusts, spiders) plus 500 examples of ova, larvae or pupae of various lepidoptera is being offered for sale following the death of the collector, Laszlo Bezsil. It is contained in 170 mahogany, palisander and other wooden boxes, 40 x 50 centimeters in size. All lepidoptera and insects are pinned, determined and labeled as to locality and all are arranged in systematic order. The Museum of Natural Sciences of Hungary has appraised the collection at 15,000,000 Hungarian Forints but does not have the financial means to purchase it. The collection is freely marketable by the heirs of the collector and can be taken out of Hungary by a foreign purchaser on the basis of a permit which can be obtained from the National Bank of Hungary. The collection is catalogued and photographs are available showing the contents of many of the boxes. Interested parties should contact Dr. Borbala Bezsil, H-1158 Budapest, Jozsef Attila u.4, HUNGARY.

GYPSY MOTH ERADICATION IN UTAH

The Utah Lepidopterist Society Gypsy Moth Committee is requesting input on sensitive and rare species and subspecies of Lepidoptera from all interested lepidopterists who collect or have collected in the region of the Wasatch Range of northern Utah. A sensitive or rare species in this instance would be any habitat restricted or highly colonial species with a disjunct population located in the Wasatch Range.

A Gypsy Moth eradication program will commence in 1989 within a small region of the Wasatch Range, but there is high potential for expansion of the spray program in subsequent years. A highly toxic lepidoptera larvacide (B.t.) will be used and is expected to significantly impact lepidoptera in the spray zone. To submit your input or to request further information, write Dr. Wayne H. Whaley, Department of Zoology, Brigham Young University, Provo, Utah, 84601.

BUTTERFLY WORKSHOP PLANNED

The Leelanau Center for Education in Glen Arbor, Michigan, will offer "Butterflies of Sleeping Bear Dunes," a 5-day intensive course taught by Dr. Warren Wagner. The class, part of the Center's Outdoor Classroom '89, will take place in the Sleeping Bear Dunes National Lakeshore area and will explore habitats at streamsides, open fields, roadsides, dunes, bogs and woodland areas. Classification will be emphasized using field characters, habitat associations, food plants and larvae. Hybridization and individual variation will be discussed. Collections will be optional. College credit is available.

Dr. Warren Wagner is a famous professor from the University of Michigan where he studies butterflies and botany. He is well known for his work with ferns and their allies and is co-author of Michigan Trees. Dr. Wagner has traveled throughout the world and brings a wealth of knowledge to his course. For more information call or write The Leelanau Center for Education, Glen Arbor, MI 49636, USA. Phone (616) 334-3072.

1989 ELECTION RESULTS

Members cast a total of 508 ballots in the election, representing a return of about 30%. Results are tabulated below, with successful candidates indicated by an asterisk (*). All officers assume office in July at the Annual Meeting in Albuquerque, New Mexico, except the new Secretary, whose term began retroactively to 1 January 1989.

The Society extends its congratulations to the winners and thanks to all candidates for their willingness to serve the Society. Although retiring Secretary Arnold tabulated the results, he would like to thank Treasurer Jim Tuttle for confirming the vote tallies.

PRESIDENT ELECT	
*Jacqueline Y. Miller	481
abstain	27
VICE PRESIDENTS (3)	
*Richard Holland	479
*Donald LaFontaine	487
*Niels Kristensen	474
EXECUTIVE COUNCIL MEMBERS-AT-LARGE (3)	
*Richard A. Arnold	419
*Susan Borkin	381
Stephanie McKown	321
*David Wagner	351
SECRETARY	
*William D. Winter	483
abstain	25
KARL JORDAN MEDAL COMMITTEE REPRESENTATIVE FOR 1989	
*William Miller	466
KARL JORDAN MEDAL COMMITTEE REPRESENTATIVE FOR 1990	
*Charles V. Covell, Jr.	478

OFFICERS OF THE SOCIETY ARE NOW AS FOLLOWS:

Through 30 July 1989:

President	Julian P. Donahue
President-Elect	Jacqueline Y. Miller
Immediate Past President	Jerry A. Powell
Vice Presidents (3)	John N. Eliot
	George W. Gibbs
	Ron Leuschner

After 30 July 1989:

President	Jacqueline Y. Miller
Immediate Past President	Julian P. Donahue
Vice Presidents (3)	Richard Holland
	Donald LaFontaine
	Niels Kristensen

Full Calendar Year

Secretary	William D. Winter, Jr.
Assistant Secretary	Julian P. Donahue
Treasurer	James P. Tuttle
Assistant Treasurer	Eric H. Metzler
Publications Coordinator	Ron Leuschner

EXECUTIVE COUNCIL MEMBERS-AT-LARGE

(terms expire at annual meeting in year indicated)

1989	1991
M. Deane Bowers	John W. Brown
Richard L. Brown	Mogens C. Nielsen
Paul A. Opler	Floyd W. Preston
1990	1992 (assume office July 30, 1989)
Dale Jenkins	Richard A. Arnold
John E. Rawlins	Susan Borkin
Jo Brewer Winter	David Wagner

EDITORIAL COMMITTEE

JOURNAL Editor	Boyce Drummond
NEWS Editor	June D. Preston
MEMOIRS Editor	William Miller
MEMBERS AT LARGE	Paul A. Opler (chair)
	Frederick W. Stehr

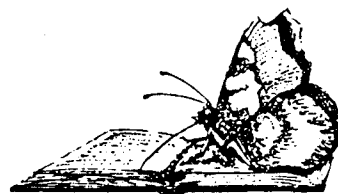
CURATORIAL ASSISTANT WANTED:

The Department of Entomology at the American Museum of Natural History is seeking a Scientific Assistant to help in curation of noctuid moths (Lepidoptera). The position, supported by a recently-received grant from the National Science Foundation, will last for three years, with a starting salary of \$20,000 - \$21,000. Duties will include labelling, identifying, and general sorting of specimens, as well as major rearrangement of the existing collection. A background in entomology is required, and an interest in moths is recommended. Employment could start as early as May 15, 1989. Interested applicants should contact Dr. James S. Miller, Dept. of Entomology, American Museum of Natural History, Central Park West at 79th Street, New York, NY, 10024.

CANADIAN ENTOMOLOGIST VOLUMES FOR SALE

The late Arthur C. Sheppard of Laval, Quebec had a personal collection of "The Canadian Entomologist" and Memoirs dating from August 1868 to June 1983. These have been valued at \$6000. His widow wishes to sell the entire collection and any reasonable offers will be considered. Please contact D. M. Sheppard, 181 59th Ave, Laval, Quebec H7V 2B9, CANADA.

Books



PREPUBLICATION NOTICE

The Butterflies of Manitoba by Paul Klassen, Richard Westwood, Bill Preston and Brian McKillop, published by The Manitoba Museum of Man and Nature should be available in mid-May. This 300 page book is 8 x 10 inches in a plastic laminate cover with water resistant paper. There are color plates of all 145 Manitoba species. For each species, life history data, flight dates, habits and habitat information are given. Included are geographical range and distribution maps, an index to food plants, a glossary and an extensive reference listing. A special prepublication price of \$17.95 Canadian (\$16.95 to Museum members) is available until May 15, 1989. Include \$2.00 per copy for postage and handling. Regular prices following that date will be \$21.95 Canadian with a 30% discount for 5 to 24 copies and a 40% discount for orders of 25 or more copies. Order from the Heritage Square Bookshop, Manitoba Museum of Man and Nature, 190 Rupert Avenue, Winnipeg, Manitoba R3B 0N2, CANADA. Phone (204) 956-2830, Monday through Friday from 8:30 a.m. till 4:30 p.m. CDT. VISA, Mastercard and American Express Cards are accepted. In U.S. funds, the prepublication price is \$15.26. The regular price after May 15 is \$18.66. The postage and handling fee is \$1.70 per copy.

New Members



ALEXANDER, DOUG: 1572 West Euclid Avenue, DeLand, FL 32720.
 ANDERSON, STEPHEN: Section of Ecology & Systematics, Corson Hall, Cornell University, Ithaca, NY 14853-2701.
 ANDREWS, MIKE: 1215 Wagner, Bloomfield Hills, MI 48013.
 AUSTIN, PEG: 2125 Arroyo Drive, Rapid City, SD 57702.
 BECKER, JAMES W.: P.O. Box 3005, Hamilton, OH 45013-0005.
 BOUTON, DAVID W. (Rev.): #149 NyPenn Trade Center, 435 Main Street, Johnson City, NY 13790-1931 [Life Member, lost for 2-1/2 years!]

MUSEUM POSITION AVAILABLE

Lepidoptera Technician. Full or part time, starting at \$7.71 per hour with 5.6% annual increases. Available immediately for skilled individual desiring to prepare and label moths in a major museum for up to 2-1/2 years. Contact Julian Donahue, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007-4057; phone (213) 744-3364.

BRADLEY, JOHN J.: 90 Pembroke Road, Clifton (Flat 5), Bristol BS8 3EG, ENGLAND.
 BRADY, WILLIAM J. (Dr.): 1434 Collins Road, NW, Lancaster, OH 43130.
 BRITTO, LOU: Rural Route 02, Box 104, Adel, IA 50003.
 BRONNER, ETHAN A.: 3644 Hayman Court, Colorado Springs, CO 80910.
 CARDE, RING T. (Dr.): Dept. of Entomology, University of Massachusetts, Amherst, MA 01003.
 CHAVES GONZALEZ, FERNANDO: Somosierra, 67, 2-B, 18009 Granada, SPAIN.
 COLLINS, JAMES F.: [address omitted on request]
 CUTHRELL, DAVID: Rural Route 01, Box 714, Early, IA 50535.
 D'ALESSANDRO, TONY: P.O. Box 9100, Riverside, CA 92504-9100.
 DAVISON, ROBIN: P.O. Box 747, Anchor Point, AK 99556.
 DENNISON, GARY: 905 Brynwood Drive, Chattanooga, TN 37415.
 DIXON, M. KEITH: 5093 Bengal Drive, San Jose, CA 95111-3904.
 DISSOURD, DAVID E.: Dept. of Entomology, University of Maryland, College Park, MD 20742.
 ETHERIDGE, MARK: 417 Antietam Way, Mesquite, TX 75149-4849.
 FARRELL, CHRIS: Apartado Aereo 360, Buga, Valle, COLOMBIA.
 FOCHT, RICHARD A.: P.O. Box 326, Capon Ridge, WV 26711-0326.
 FRANK, SUE: 2508 Pine Street, Philadelphia, PA 19103-6421.
 FREITAS, NAOR HELCIO (Dr.): Avenida Independencia 2267, 14025 Ribeirao Preto, Sao Paulo, BRASIL.
 FRIEDBAUM, JEREMY: 670 East 420 North, Provo, UT 84606.
 GOLIA, VINCE: 155 Glover Avenue, Yonkers, NY 10704.
 HALVORSEN, GORDON R.: Rural Route 01, Box 137, Lovington, VA 22949.
 HATHAWAY, H. R. (Dr.): 573 Whippoorwill Trail, West Palm Beach, FL 33411.
 HEDBOR, JAMES D.: P.O. Box 203, South Hero, VT 05486-0203.
 HILL, LAWRENCE W.: 1336-B Modoc Avenue, Norfolk, VA 23503.
 HOTKO, EUGENIA: 59 Maxwell Street, Wilkes-Barre, PA 18702.
 ITHIER, BRUCE A.: P.O. Box 302, Treasure Island #4, Bolivar, PA 15923.
 JAROSZ, ROBERT: 14320 92nd Avenue North, Maple Grove, MN 55369.
 KAREOFELAS, GREG: 1028 Cypress Lane, Davis, CA 95616-1364.
 KIDDOO, GORDON: 946 Whelk Drive, Sanibel, FL 33957.
 KOIKE, HISAYOSHI: 4-968-12 Shimizu, Higashiyamato-shi, Tokyo 189, JAPAN.
 KOVACH, BRAD: 1617 NE 8th Avenue, Fort Lauderdale, FL 33305.
 KOZIAL, JOHN: P.O. Box 35, Bjorkdale, Saskatchewan S0E 0E0, CANADA.
 KRIVDA, WALTER VLADAMIR: P.O. Box 864, The Pas, Manitoba R9A 1K8, CANADA.
 LESCA, JOHN: P.O. Box 2712, Martinez, CA 94553.
 MAKINSON, GEORGE L.: 750 Glenvia Street, #205, Glendale, CA 91206-2412.
 MATTHEWS, DEBORAH L.: Dept. of Entomology, Building 339, Archer Road Lab, University of Florida, Gainesville, FL 32611-0001.
 MCCALLUM, DAVID: 394 Meadowcrest Road, Kingston, Ontario K7M 3S5, CANADA.
 McWILLIAMS, GERALD M.: 3142 West Twelfth, Erie, PA 16505.
 MERGENER, MATT: W180 N8373 Town Hall Road, Monomonee Falls, WI 53051.
 MILLER, DONALD H. (Dr.): 2 Overlook Drive, Box 578, Lyndonville, VT 05851.
 ORIVE, MARIE E.: Dept. of Zoology, University of California, Berkeley, CA 94720.
 PARSHALL, STEPHEN J.: 1709 Northfield Square, Northfield, IL 60093.
 PASSAFERO, HENRY: 455 North Oregon, P.O. Box 1630, Jacksonville, OR 97530.
 PRESSLEY, BOBBY DEXTER: Rural Route 01, Box 690, Indian Trail, NC 28079.

RAKES, DAVID K.: 5117 Arbor Point Circle, #627, Tampa, FL 33617.
 RIGBY, CHRIS: 335 Garland Drive, Paducah, KY 42001.
 RILLO, IMOGENE L.: P.O. Box 2226, Manila 1099, PHILIPPINES.
 ROMER, JAMES C.: 7991 East Hampden Circle, Denver, CO 80237-1405.
 ROSS, DANA N.: 29500 Heathercliff Road, #98, Malibu, CA 90265-4101.
 RUFFIN, JANE M.: 1013 Great Springs Road, Rosemont, PA 19010.
 SAKAI, SEIJI: 7 Irifune 2-Ban, Ichikawa-Shi, Chibaken 272-01, JAPAN.
 SANTIN, ANGELO: 11 rue Charles Vaillant, 77680 Roissy en Brie, FRANCE.
 SHIRAIWA, KOJIRO: Box 61444, University of Oregon, Eugene, OR 97403.
 SIEW, NUTHA: 92 Lebohaya Perajurit 2, Ipoh Garden East, 31400 Ipoh, MALAYSIA.
 SIMMONS, MICHAEL JOHN: 69 New road, South Darenth, Dartford, Kent DA4 9AT, ENGLAND.
 SIMON, MARK J.: 2382 NE 29th Street, Lighthouse Point, FL 33064.
 SMIDANSKY, ERIC: 105 Fish Hatchery Road, Ennis, MT 59729.
 STELNICKI, THOMAS D. (DPM): 6545-2 Ridge Road, Port Richey, FL 34668.
 STEPHENS, RAY: 455 Florence Avenue, Oakland, CA 94618-2532.
 STINNER, RON: P.O. Box 848, Cary, NC 27512-0848.
 VASQUEZ, ANITA: 1267 Elmhurst Drive, Cedar Rapids, IA 52402.
 VASQUEZ, BONNIE M.: 2331 Lowell Avenue, Richmond, CA 94804-1034.
 WALKER, DENNIS EDWARD: 1441 South 18th Avenue, Maywood, IL 60153.
 WALKER, GEORGE: 3302 Perry Avenue, Wyoming, MI 49509.
 WATKINS, REED A.: 9258 Clio Road, Spring Valley, OH 45370-9604.
 WESTERLAND, NILS A.: P.O. Box 533, Tahoe City, CA 95730-0533.
 WIENBERG, RONALD D.: P.O. Box 7112, Villa Park, IL 60181.
 WINKLER, GEORGE A., Jr.: 10 Covington Lane, Saint Louis, MO 63132.
 YANO, KOICHI: 2039 Marguerite Street, Fort Lee, NJ 07024.
 ZULNARA, ELEONORE: Depto. de Zoologia, Universidade Estadual de Campinas, C.P. 6109, Campinas, Sao Paulo 13.081, BRASIL.

Address Changes



CALLAHAN, DANIEL: 331 Morningside Drive, Abingdon, VA 24210.
 CASDORPH, DAVID G.: P.O. Box 2480, Monrovia, CA 91017.
 CONOVER, JAMES, H.: 156 Columbia Avenue, Athens, OH 45701.
 CURTIS, MATT: 695 Sunrise Boulevard, Prescott, AZ 86301.
 EPSTEIN, MARC (Dr. - congratulations!): Dept. of Entomology, NHB-127, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560.
 GORMAN, LARRY R.: P.O. Box 435, Stillwater, OK 74076-0435.
 HOLMBERG, HENRY: Vainiopolkku 7, 00700 Helsinki, FINLAND.
 ISRAEL, MICHAEL L.: 421 East Shore Road, Great Neck, NY 11024.
 JONES, DONNA KAY: 9347 Guywood, Houston, TX 77040.
 KNOSHAUG, WENDELL E.: 1300 Black Oak Court, Pinole, CA 94564.
 LOFTIN, STEPHEN W.: 2413 Sterling Road, Nashville, TN 37215.
 NAGANO, CHRISTOPHER D.: Division of Endangered Species, U.S. Fish and Wildlife Service, 2800 Cottage Way, Room E-1823, Sacramento, CA 95825.
 ONARAN, OKTAY (Dr.): Guilbrissim sokak, Islek apt. 10/9, 34800 Yesilkoy, Istanbul, TURKEY.
 RICHINS, ZEN O.: 18853 North 40th Place, Phoenix, AZ 85024.
 SAVIGNANO, DOLORES: Dept. of Biology, State University of New York, 1400 Washington Ave., Albany, NY 12222.

TURNER, LARRY: 1037 Highland Street, #B, Seaside, CA 93955-6120.
WILTERDING, JOHN H., III: 5900 North Hagadorn Road, East Lansing, MI 48823.

The Market Place

Buy • Sell • Exchange • Wants



Items submitted for inclusion in this section are dealt with in the manner set forth on page 9 of the Jan/Feb 1989 NEWS. Please note that in keeping with the guidelines of the Society, henceforth no mention of any species on any threatened or endangered species list will be accepted in these items. This will include all Ornithopterans now and for the foreseeable future. Items will be accepted from members only and will be printed only once unless entry in the maximum of two successive issues is requested. Please keep items short. A maximum of 100 words is allowed. SASE in an ad stands for self addressed stamped envelope.

The Society, as always, expects all notices to be offered in good faith and takes no responsibility for the integrity of any advertiser. Any disputes arising from such notices must be resolved by the parties involved outside of the structure of the Society.

FOR SALE: Catalogue of Hesperidae (Lepidoptera: Rhopalocera). A 6-part catalogue of the 9327 species-group names of the Hesperidae of the World. Part 1: Species-group names with data and references. Part 2: Index to Genera (Synonymic Lists). Part 3: Index to Authors and Bibliography. Part 4: Bibliography (2134 references). Part 5: Index to Journals and Serials. Part 6: Index to Bibliography by Year. Appendix 1: Family-group Names. Appendix 2: Genus-Group names (Synonymic List). 8.5 x 11 in., 461 pp. (hardbound), \$70.00 in North America, \$72.50 elsewhere (includes postage). Available from Charles A. Bridges, 502 W. Main St., Apt. 308, Urbana, Illinois 61801, USA. Also available: Catalogue of Lycaenidae & Riodinidae (\$95.00/\$97.50), Catalogue of Papilionidae & Pieridae (\$85.00/\$87.50), Catalogue of Family-group and Genus-Group Names (Butterflies) (\$60.00/\$62.50), Bibliography (Butterflies) (Lists 19407 publications on butterflies) (\$75.00/\$77.50).

FOR SALE: Light traps for use with 12 volt batteries or 120 volt AC, portable and light weight with 8 or 15 watt bulb. Beetle screen and rain drain. For more information and pricing, contact: Leroy C. Koehn, 2946 N.W. 91st Ave., Coral Springs, FL 33065, USA. Phone (305) 344-3873.

FOR SALE: First brood *S. cynthia* cocoons from May 1989 adults. They will emerge in August. Available around JULY 10th. Will allow rearing of diapause cocoons from this first brood offspring. SASE for more information or CALL (717) 272-6597 after 4 P.M. Jeff Frey, 364 Oaklyn Rd., Lebanon, PA 17042, USA.

FOR RENT - Log house on weekly basis at 2,000' near Oneonta, NY. In Season: *Colias interior*, *Pieris virginianensis*, *Arctia caja*, *Limenitis arthemis/proserpina*, *Actias luna* and other Saturnids, *Pachysphinx modesta* and other Sphingids, *Catocala*. 10 acre hilltop with ponds. Chart of lepidoptera seasons available. 5 miles off interstate. Free use of light traps, bait traps. Private camping spots on 8 acres also available. Correspondence about house invited. SPECIMENS ALSO WANTED - *Heliconius*, Ithomiidae, *Callicore*; Many temperate and tropical species offered in exchange from those and other groups, or will buy. Correspondence about specimens invited. David W. Bouton, #149, 435 Main St., Johnson City, NY 13790.

CONTACTS WANTED: As part of a Hawkmoth project I shall be running a Mercury Vapour trap in Hong Kong (possibly also occasionally in Brunei) for two years from June 1989. I would be prepared to collect small numbers of moths for anyone interested in particular groups. Also a possibility of some Coleoptera, etc. Please write. No dealers please. John Tennent, 1 Middlewood Close, Fylingthorpe, Whitby, N Yorkshire, England.

NEW BOOKS FOR SALE: Butterflies of the South East Asian Islands (4 volumes). Volume 1 covers Papilionidae (457 pp.), vol. 2 Pieridae and Danaidae (623 pp.), vol. 3 Satyridae (including Amathusiinae) and Libytheidae (in Japanese - 500 pp.), and vol. 4 Nymphalidae (in Japanese - 558 pp.). Volumes provided with slip cases or dust jackets. Color photography is superb and all species, subspecies and most forms are presented in full life sized formats. Extensive coverage of general biology and ecology is presented for each species. Distributions of species and subspecies are represented on detailed range maps. Drawings of genitalia are presented. Although volumes 3 and 4 are available in Japanese only, Latin scientific names and range maps provide valuable information not represented in other works. Send a SASE requesting a free color brochure on the series to: Connie L. Whaley, Wymount Terrace 8B-477, Provo, UT 84604, USA. Phone (801) 377-2043.

FOR SALE: FUTAO (A Journal of Entomology) No. 1-2, 1989. Descriptions of new species, new subspecies and rare ones of South-east Asian Butterflies, in English and Japanese. Send ¥ 3,000 to cover publications and mailing costs. Hiroto Hanafusa, 5-12-20-703, Higashimikuni, Yodogawaku, Osaka, 532, Japan.

MEMBERS' COMMERCIAL NOTICES

NATURE'S ALL, Box 225, Kirkwood, NY 13795 USA. 1989-1990 TOURS for Lepidopterists and other Naturalists: Trinidad in July 1989, Peru, Amazon in August 1989, also Jamaica, Venezuela and others. Send \$.75 in stamps for further information.

IMOGENE L. RILLO, P.O. Box 2226, Manilla 1099, Philippines. Selling Philippine butterflies and beetles. Send \$1.00 for postage and price list.

TRANSWORLD BUTTERFLY COMPANY-LS, Apartado 6951, San Jose, COSTA RICA, Central America (Tel +506-284768, FAX +506-281573, Telex 2913). Serving Lepidopterists worldwide since 1976. LATEST 12-PAGE CATALOG! Includes species from South & Central America, Africa, Europe, India, Far East, etc. SPECIALISTS IN PAPILIONIDAE AND MORPHO (Special Morpho listing includes *M. rhetenor* female, *M. adonis guyanensis* female, *M. godarti* female, *M. insularis*, *M. titei* female, etc.). Books, Entomological pins, Moth lights. CATALOG \$1 (or \$6 for year's monthly lists by airmail).

INSECTS, div. Combined Scientific, P.O. Box 1446, Ft. Davis, TX 79734, USA. A new catalog for 89/90 is now available. There are 240 pages listing over 8,000 insects (more than 1,000 new items not listed in the previous catalog) with 500 illustrations covering the 400 plus families offered from 27 Orders of insects. All specimens with full and complete collecting data. Write for a catalog, no charge.

FLORA & FAUNA BOOKS, P.O. Box 15718, Gainesville, FL 32604, USA. New books at 5% off list price. Current new items: Florida Butterflies (Gerberg & Arnett), \$8.95; Butterflies of Hispaniola (Schwartz), \$32.50 [UF Press says due 4/89]; Butterflies of South America (D'Abrera, 256p), \$17.95; Butterflies of Costa Rica (DeVries), \$19.95; Butterflies of the World (Preston-Mafham), \$19.95; Butterflies of North Dakota (Royer), \$13.95; Butterflies of N. Amer. (Scott), \$46.50; Taiwan Butterfly Wonders [142 col.pl./text Chinese], \$23.50; Monarch Butterfly (Urquhart), \$37.50; Butterflies of California (Comstock), [reprint due 4/89 (B/W pl), new introd.], \$22.95. Send prepayment plus postage/handling [\$1 plus 50¢ per book (add \$1 per book outside of US)].

MICHAEL K. P. YEH, P.O. Box 470, 30750 - Ipoh, Malaysia. Malaysian & Sabah beetles, butterflies, livestock. Send US \$2.00 cash for price list. Dealers only.

IANNI BUTTERFLY ENTERPRISES, P.O. Box 81171, Cleveland, Ohio 44181, USA. Phone (216) 888-2310. Worldwide butterflies, moths and beetles for all price ranges. Superior quality, double boxed for shipping safety. Personalized service to the beginning or seasoned collector. Specializing in Papilio, Morpho and Heliconius. ALSO excellent quality insect mounting pins including standard back, Elephant, stainless steel. Best prices available. Send \$5.00 U.S. for one year price list subscription.

From: The Lepidopterists' Society
Address Correction Requested:
Allen Press
P.O. Box 368
Lawrence, KS 66044

NON-PROFIT
ORG.

U.S. POSTAGE
PAID

PERMIT NO. 116
LAWRENCE KS.

J. Donald Eff
445 Theresa Drive
Fairview Estates
Boulder, CO 80303

682

=====

DEADLINES: Material for the Jan/Feb issue should reach the NEWS EDITOR by Dec 1 of the previous year, and that for the Mar/Apr Issue by Feb 15, for the May/June issue by Apr 1 and for the July/Aug issue by May 1, the Sept/Oct issue by Aug 15 and the Nov/Dec issue by Oct 15. Reports for the SEASON SUMMARY must reach the ZONE COORDINATORS listed on the front cover no later than the 5th of January. NEWS EDITOR is June Preston, 832 Sunset Dr, Lawrence, Kansas 66044-2373, USA. Phone (913) 843-6212. RIPPLES EDITOR is Jo Brewer, 257 Common St, Dedham, Massachusetts 02026-4020, USA.

=====

INFORMATION ABOUT THE SOCIETY.....

Membership in the Lepidopterists' Society is open to all persons interested in any aspect of Lepidopterology. Prospective members should send the TREASURER, James P. Tuttle, 3838 Fernleigh Ave, Troy, Michigan 48083-5715, USA, phone (313) 689-6687, the full dues for the current year, \$25.00 US, together with mailing address and a note about areas of interest in the Lepidoptera; student membership (must be certified) \$15; sustaining membership \$35; life membership \$500. Remittances must be in US dollars, payable to the Lepidopterists' Society. All members will receive the JOURNAL (published quarterly) and the NEWS (published bimonthly). A biennial membership directory will comprise the last issue of the NEWS in even-numbered years.

Changes of address (permanent ones only), Additions or Changes in Telephone Numbers or Areas of Interest and Information about Mailing List Rental: Contact the ASSISTANT SECRETARY, Julian P. Donahue, Natural History Museum of Los Angeles County, 900 Exposition Blvd, Los Angeles, California 90007-4057, USA.

Information on Membership and other aspects of the Society must be obtained from the SECRETARY, Dr. William D. Winter, Jr., 257 Common Street, Dedham, Massachusetts 02026-4020, USA. Home phone (617) 326-6053.

Requests for Missed Issues (i.e. those not delivered although dues have been paid on time) should be sent to the TREASURER, James P. Tuttle, address above, or the PUBLICATIONS COORDINATOR, Ron Leuschner, address below. Defective issues will also be replaced by the TREASURER. Do not request these of the NEWS editor.

Manuscripts submitted for publication in the JOURNAL are to be sent to Dr. Boyce Drummond, EDITOR, JOURNAL of the Lepidopterists' Society, Natural Perspectives, P.O. Box 9061, Woodland Park, Colorado 80866-9061, USA. Phone (719) 687-6596. See the inside back cover of a recent issue of the JOURNAL for editorial policies.

=====

AVAILABLE PUBLICATIONS OF THE SOCIETY..... Order from the PUBLICATIONS COORDINATOR, Ron Leuschner, 1900 John St., Manhattan Beach, CA 90266-2608 USA.

CATALOGUE/CHECKLIST OF THE BUTTERFLIES OF AMERICA NORTH OF MEXICO (Memoir No. 2), Lee D. Miller & F. Martin Brown: includes references to original descriptions and location of type specimens. Members and subscribers, \$12 cloth, \$7 paper; non-members, \$19 cloth, \$10.50 paper, postpaid.

COMMEMORATIVE VOLUME, 1947-1972: a 25-year review of the Society's organization, personnel, and activities; biographical sketches; JOURNAL 25-year cumulative index by author, subject, and taxon; clothbound. Members and subscribers, \$8; non-members, \$12, postpaid.

1988 MEMBERSHIP DIRECTORY (current to November 1988. Biennial directory of members and their addresses, with geographic and interest indices. Not available for commercial use. (NEWS #6 for 1988). \$5.00 postpaid.

BACK ISSUES of the JOURNAL and of the NEWS of the Lepidopterists' Society. For a list of the available issues and their cost, postpaid, send a SASE to the SECRETARY or to the PUBLICATIONS COORDINATOR.