

NEWS

of the LEPIDOPTERISTS' SOCIETY

No. 4 July/Aug. 1987

EDITOR

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

ASSOCIATE EDITORS

Art/Graphics
Les Sielski
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 | | |



1987 DEALER LISTINGS

In 1972, NEWS Editor C. V. Covell, Jr. instigated a listing of dealers carrying items of interest to lepidopterists. In 1981, this list was updated by NEWS Editor Dave Winter. Some of the dealers listed in 1981 are no longer in business, but some new listings have been added. Any glaring omissions should be brought to the attention of the current NEWS Editor June Preston.

The NEWS can take no responsibility for the integrity of any dealer listed here nor can it make any recommendations. However, dealers who have been found by members to be unreliable at any time are not included. Since the Society does not sell advertising space, any dealer wishing to express appreciation for their listing in the NEWS might take out a Sustaining Membership in the Society (see back cover) or might send an item to the local arrangements Chairman of any Annual Meeting for the door-prize drawing. Because individual members can advertise at will in the NEWS, they are not being included in this listing unless they are considered to be Commercial Dealers. An *preceeding a listing indicates that the dealer is a Society member, or that the company owner is a Society member.

The listings are divided into four categories: (1) Literature; (2) Equipment and Supplies; (3) Insects; and (4) Safaris. It is possible to find some dealers in more than one category, but the address and phone are given only once, where it first appears.

1. LITERATURE (A=antiquarian; C=current; R=reprints)

- *American Biological Supply Co. (AMBI): (C)
1330 Dillon Heights Ave, Baltimore, Maryland 21228, USA. Phone (301) 747-1797. Catalogue available for \$1.00 U.S.
- *Apollo Books: (C)
Lundbyvej 36, DK-5700 Svendborg, Denmark. Free Catalogue
- A. Asher & Co. B.V.: (A)
Keizersgracht 489, 1017 DM Amsterdam, The Netherlands. Phone: 020-222255. Telex: 14070-Ashni.
- Australian Entomological Press: (C)
14 Chisholm St, Greenwich, N.S.W. 2065, Australia.
Only in house publications.
- Australian Entomological Supplies: (C)
P.O. Box 314, Miranda, N.S.W. 2228, Australia.
- *BioQuip Products: (C)

P.O. Box 61, Santa Monica, California 90406, USA.
Phone (213) 322-6636. Catalogue available.

The Book Home: Scientific Book Dept.: (A)
P.O. Box 825, Colorado Springs, Colorado 80901, USA. Will search for out of print books for a fee.
Books for Naturalists: (A,C)

81 Rockwell Green, Wellington, Somerset TA21 9BX, England. Phone: Wellington 7234. Free catalogue available on request.

E.J. Brill: (A,C)

P.O. Box 9000, 2300 PA Leiden, The Netherlands.
Phone: (071) 312 624. Telex: 39296 brill nl. Cables: Brill Leiden. Catalogue available on request. U.S. agents, c/o Expeditors of the Printed Word, Ltd, P.O. Box 1305, Long Island City, New York 11101.

Carolina Biological Supply Co.: (C)
Burlington, North Carolina 27215

E.W. Classey, Ltd.: (A,C)

P.O. Box 93, Faringdon, Oxon, OX82 Q2, England or in USA, P.O. Box 1062, San Marcos, California 92069. Phone (714) 744-8234. Free catalogue. Will search for hard to find items.

Dover Publications, Inc.: (C,R)

31 East 2nd Street, Mineola, New York. Phone (516) 294-7000.

*Entomological Reprint Specialists: (C)

P.O. Box 77224, Dockweiler Station, Los Angeles, California 90007, USA. Listings available.

*Ianni Butterfly Enterprises: (C)

P.O. Box 81171, Cleveland, Ohio 44181, USA. Phone (216) 888-2310.

*Nature's All, David Bouton: (C)

P.O. Box 225, Kirkwood, New York 13795, USA. Phone (607) 729-0878

*John Trotter: (A)

11 Laurel Way, London N20 8HR, United Kingdom. Catalogue on request.

Ward's Natural Science Establishment, Inc: (limited C)

East Coast: 5100 W. Henrietta Rd, P.O. Box 92912, Rochester, New York 14692-9012. Phone (716) 359-2502. Telex: 6854120.

West Coast: 11850 E. Florence Ave, Santa Fe Springs, California 90670-4490. Phone (213) 946-2439. Free ordering service: 1-800-962-2660. Catalogue available.

Watkins & Doncaster, The Naturalists: (C)

Four Throws, Hawkhurst, Kent, TN18 5ED, England. Phone: 05805-3133. Telex: 95451 Wander G. Catalogue for £1.00.

Wheldon & Wesley Ltd.: (A,C)

Lytton Lodge, Codicote, Hitchin, Herts. SG4 8TE, England. Phone: Stevenage (0438)820370. Telex: 825562 and 825353 Chacom G Wheld. Telegrams and Cables: Wheldowesly, Hitchin. Dialcom: 72:Mag 95466. Four catalogues per year for subscription price of £ 5.00.

2. EQUIPMENT & SUPPLIES

- *AMBI: (see Category 1) Wide Variety.
Australian Entomological Supplies: (see Category 1) Various.
- *BioQuip Products: (see Category 1) Wide Variety.
- *Vernon Brou: Insect pins.
137 Jack Loyd Road, Abita Springs, Louisiana 70420-9781 USA.
- *The Butterfly Company: Limited Variety.
51-17 Rockaway Beach Blvd, Far Rockaway, New York 11691, USA. Phone: (718) 945-5400.
- Carolina Biological Supply Co.: (see Category 1) General, Chemicals.
- Connecticut Valley Biological Supply Co: Various.
82 Valley Rd, P.O. Box 326, Southhampton, Massachusetts 01037, USA.
- Fisher Scientific Co., Educational Materials Division: Limited Variety.
4901 West LeMoyné St, Chicago, Illinois 60651, USA
- *Thomas Greager: Insect Pins.
R.D.#6, Box 56-B, Greensburg, Pennsylvania 15601.
P.D.J. Hugo: Data labels, to order.
55, Colliers Wood, Forest Green, Nailsworth, Stroud, Glos. GL6 0TL, England.
- *Ianni Butterfly Enterprises: (see Category 1) Spreading, Shipping Materials.
The Interior Steel Equipment Co.: Entomological and Herbarium Specimen Storage Cases.
2352 East 69th Street, Cleveland, Ohio 44104, USA. Phone (216) 881-0100.
- Lane Science Equipment Corporation: Specimen Storage Cabinets.
225 West 34th Street, Suite 1412, New York, New York 10122, USA. Phone: (212) 563-0663.
- Mason Box Company, Inc.: Boxes suitable for storing papered specimens or transparencies.
521 Mt. Hope Street, P.O. Box 129, North Attleboro, Massachusetts 02761-0129, USA. Phone: 1-800 225-2708. In Massachusetts dial (017) 695-9381.
- Nasco: Limited Variety.
901 Janesville Ave, Fort Atkinson, Wisconsin 53538, USA.
- Nasco West: Limited Variety.
1524 Princeton Ave, Modesto, California 95352, USA.
- *Nature's All: (see Category 1) Practical Variety.
- *Top Drawer Entomological Storage Equipment Co.: Storage Drawers.
6524 Stoneman Drive, North Highlands, California 95660, USA.. Phone: (916) 344-1626.
- Ward's Natural Science Establishment, Inc.: (see Category 1) Large Variety.
- Watkins & Doncaster, The Naturalists: (see Category 1) Large Variety.
- Worcester Speciality Envelope Company, Inc.: Glassine and Coin envelopes in lots of 1,000 or more.
69 Palm Forest Drive, Largo, Florida 33540. Phone (813) 585-4846.

3. INSECTS (L=livestock; P=papered)

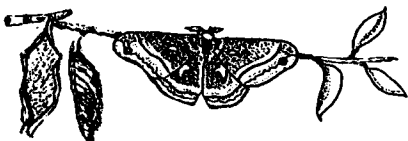
- *Asakawa Trading Co.: Lepidoptera from Japan (L,P)
P.O. Box 14, Komatsushima, Tokushima 773, Japan.
- *Ronald N. Baxter: Worldwide lepidoptera (L,P)
45 Chudleigh Crescent, Ilford, Essex, IG3 9AT, England.
- *Dick Burgess, London Pupae Supplies: (L)
Castleleigh, London Road, Enfield EN2 6JF, England. Price lists for \$1.00 U.S.
- *The Butterfly Company: (see Category 2) Lepidoptera, Coleoptera (P)
Carolina Biological Supply Co.: (see Category 1) Limited specimens, rearing kits.
- *Coletores Asociados de Colombia: Butterflies, Beetles, Ass't Insects (P).
P.O. Box 045, Buga Valle, Colombia. Price list subscription, \$5.00 U.S. annually.
- Connecticut Valley Biological Supply Co: (see Category 2) Limited Specimens, rearing kits.

- *Dave E DeRosa, Insect World: Worldwide Lepidoptera, Coleoptera (P)
P.O. Box 15432, San Diego, California 92115-0432, USA. Phone (619) 286-0485.
- *Entomological Clearing House, Inc., Chuck Kondor: Worldwide Lepidoptera (P).
P.O. Box 778, Hales Corners, Wisconsin 53130, USA.
- *Robert Crane Goodden: Lepidoptera (L,P)
Over Compton, Sherborne, Dorset, England
- *Keechoe Gooli: Malaysian Insects (L,P)
70 Jalan Foo Win Yin, Canning Garden, 31400 Ipoh, Malaysia. Catalogue for \$2.00 U.S.
- *Thomas Greager: (see Category 2) Worldwide Lepidoptera, Coleoptera (P). Price list for \$1.00 U.S. and legal size SASE.
- *Len Hart: Lepidoptera (L,P)
51 Benton Rd, South Shields, Tyne & Wear, NE34 9UB, England. Phone: 0783 373747. Lists available.
- *Ianni Butterfly Enterprises: (see Category 1) Beetles, Lepidoptera (P)
- *Insects, div. Combined Scientific, Terry W. Taylor: Worldwide Insects (P)
P.O. Box 1446, Ft. Davis, Texas 79734, USA. Phone (915) 426-3851. Free catalogue.
- *Victor M. Martinez Bazan: Peruvian Butterflies (P)
Apartado #104, Tingo Maria, Huanuco, Peru.
- *John McFeeley, Specialist Butterfly Supplies: Worldwide Butterflies (L,P)
90 Stonechat Ave, Abbeydale, Gloucester GL4 9XF, England. List of available livestock and papered specimens for \$2.00 U.S.
- *Meta-Science Co, Ronald Boender: Selected Rhopalocera (L)
P.O. Box 70367, Ft. Lauderdale, Florida 33307, USA. Phone (305) 561-9303. Catalogue available for SASE.
- Joel Miller: Indonesian butterflies (P)
P.O. Box 504, West Side Station, Worcester, Massachusetts 01602 USA.
- Nasco and Nasco West: (see Category 2) Limited specimens, rearing kits.
- *Nature's All: (see Category 1) Worldwide Lepidoptera (P)
Annotated lists available for \$3.95 US currency or US stamps for 12 issues.
- *Northwest Biological Enterprises, Stanley Jewett Jr.: Regional Lepidoptera (P)
23351 SW Bosky Dell Lane, West Linn, Oregon 97068-9130, USA.
- *S.K. Ong, Naturalist: SE Asian, Thailand Lepidoptera (P)
Box 2, Simpeilou, Taiwan 112, R.O.C. Phone: 02-891-2501.
- *Chang Pi-Tzu: Formosan Lepidoptera, Coleoptera and other insects (L,P)
P.O. Box 873, Taipei, Taiwan 10099, Republic of China.
- *Imogene L. Rillo: Philippine butterflies and beetles.
P.O. Box 1666, Manila, Philippines. Price list for \$1.00 U.S.
- *Jerry Schloemer: Worldwide Lepidoptera, Coleoptera (P)
P.O. Box 307, Round Lake, Illinois 60073-0307, USA. Phone: (312) 546-3350.
- *Miguel Serrano Tropical Butterflies: Rare and bred Central and S. American butterflies (L,P).
6823 Rosemary Drive, Tampa, Florida 33625, USA. Lists available.
- *John Staples, Breeder of Lepidoptera: Native stock (L).
389 Rock Beach Road, Rochester, New York 14614, USA. Phone: (716) 544-8198.
- *Thai Papilio Co, Ltd, Adam Cotton: Wholesale Insects only.
54 Doi Sakat Gao Road, Tambon Wat Get, Amphoe Muang, Chiang Mai 50000, Thailand. Free price list to dealers.
- *Ken Thorne: Worldwide Lepidoptera, Coleoptera (P).
P.O. Box 684, Lambeth, Ontario N0L 150, Canada. Phone (519) 652-6696. \$1.00 U.S. for species lists.
- *Transworld Butterfly Company (IS), Simon Ellis. S. American, European and African Butterflies.
Apartado 6951, San Jose, Costa Rica, Central America. Single catalogue \$1.00 U.S. \$6.00 U.S. for subscription to 12 monthly newsletters/catalogues.

- *John Trotter: (see Category 1) Lepidoptera ova.
 *Michael G. Turner, Nature Education Centres, Ltd.: Butterflies (L)
 Silverley House, Theobalds Park Rd, Crews Hill, Enfield EN29BD, United Kingdom. Phone 01-363 7288. Telex 8951182 Gecom G.
 *Ulysis International, Steve Lamond: Australian Lepidoptera, Coleoptera (P).
 11A Cleveland St., Wahroonga 2076 N.S.W.
 Ward's Natural Science Establishment, Inc.: (see Category 1) Limited Assortment (P).
 Watkins & Doncaster, The Naturalists: (see Category 1) Worldwide Lepidoptera (P).
 *Eduardo C. Welling M.: Tropical Lepidoptera (P).
 Apartado Postal 701, Merida, Yucatan, Mexico.
 *H.F. Wong, Deco Enterprise: Lepidoptera (P).
 P.O. Box 155, Taiping, Parak, Malaysia. Phone 825075.
 *Michael K.P. Yeh, Entomological Supplies: Lepidoptera, Coleoptera (L,P).
 P.O. Box 470, 30 750-Ipoh, Malaysia. Livestock or deadstock lists, \$2.00 U.S. each.

4. SAFARIS

- *Colectores Asociados Colombia: (see Category 3) Occasional local safaris.
 *Darien Compound Safaris: Safaris in Panama.
 P.O. Box 909, Panama 9A, Panama. Phone 55-7272. Brochures available.
 *Dr. Thomas C. Emmel and Holbrook Travel Inc.: Worldwide Safaris.
 3540 NW 13th St, Gainesville, Florida 32609 USA.
 *Nature's All: (see Category 1) Worldwide Safaris.
 *Thai Papilio Co, Ltd: (see Category 3) Guide services by appointment.
 *Transworld Butterfly Company: (see Category 3) Central American Safaris.
 *Ulysis International, Steve Lamond: (See Category 3) Australian Safaris.



"WHAT WAS A SILK MOTH?"

The silk moths that reside in Bergen County need our attentive stewardship now more than ever. Like butterflies, the moths are vulnerable to over-collecting, habitat encroachment, pesticide spraying, parasites, and now, acid rain. As one who has reared caterpillars of the giant silk moths of the Saturniidae family, I disdain when my grandchild may ask, "What was a silk moth?"

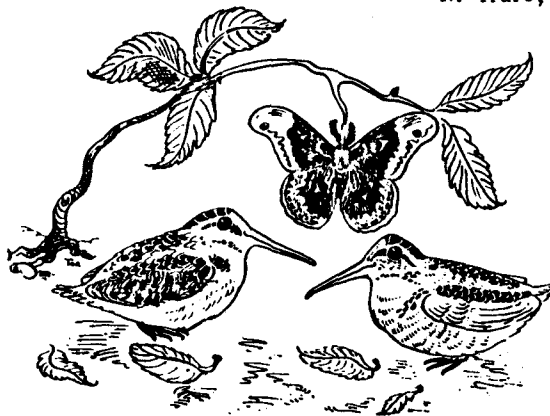
At Flat Rock Brook Nature Center in Englewood in the summer of 1982 I attempted, with the assistance of a volunteer zoologist, Daran Ellis, to rear the larvae of five species of the Saturniidae in a species enrichment program. Lunas, Cecropias, and Prometheas mated successfully. The caterpillars grew readily with selected leaves (not washed with boiled water) of Wild Cherry, Sweet Gum & Spicebush replenished every day. Normally, caterpillars spin a cozy cocoon often wrapped in leaves to disguise its suspended state of sleep as a pupa until the adult imago emerges on a warm spring day. The Cecropia, however, did not reach ultimate size, and many cocoons appeared dwarfed. Many Luna larvae obtained full size but most imagos were small but virile. Overall, 60% to 80% of the larvae spun cocoons, and over 50% of fertile eggs became imagos. Of the cocoons that overwintered in proper conditions over 75% emerged. Yet some Cecropia and Luna emerged stunted, unable to spread their wings or fly. I conclude that certain growth factors exist in nature that assist full growth and maturation, that they do not interrupt or disturb cell division. But I also wonder, since the leaves they were fed were not washed, if acid rain contributes to species

reduction. It appears that in order to rear caterpillars of local butterflies or moths one has to wash the leaves for their food.

We discovered another decimator of moths one day in June when Daran had isolated almost 200 fertile eggs from the outdoor cocoonery where cocoons were placed in advent of the emergence of Lunas that would mate and lay eggs. The female had laid her fertile eggs on the screen and woodwork. (If carefully coaxed she may lay her eggs on your finger!) In the plastic dish covered with saran wrap were almost 200 agitated tiny winged insects! Upon close inspection these turned out to be an all but microscopic species of the Microhymenoptera, minute wasps that parasitize the Luna Moth. Other Ichneumonid wasps also attack the helpless caterpillars. The all too effective parasitic wasps can sometimes wipe out as much as 90% of a population of Cecropia, Polyphemus, Prometheus, Io, or Luna. In contrast, no silk moth in natural distribution can be a threat to its food source; in fact the chances of survival of the caterpillar depend largely on chance since birds, spiders, and other insects take heavy toll. Prometheus larvae are difficult to rear, requiring constantly fresh spicebush or sassafras, and are heavily preyed upon by native stink bugs (Hemiptera). I remember seeing a Silver Maple in Englewood that in winter was host to at least 40 Cecropia cocoons spun all around the trunk and outer branches -- some large and puffy, others small, almost scanty -- crowding and overlapping each other so as to all but prevent emergence through the narrow tip of the cocoon. Only eight survived the telltale puncture hole of the Ichneumonid wasps that implant their own life cycle at the expense of the moth. How the silk moths survive at all is indeed a wonder.

In the 160 acres of deciduous hardwoods that jointly comprise Allison Park & Flat Rock Brook, there is ample food source to support all the once numerous species of Saturniid Silk Moths. I released 12 fertile female Cecropia at widely spaced stations in choice habitat in hopes they would replenish the natural populations. The five Luna females were also released into the park. The feathery antennae of the male may detect the effective scented pheromone of the female, and one male Cecropia was attracted from the environs to a waiting female. One female can lay over 200 eggs that in the next generation may yield, ideally, 20,000 new moths. But not even a small percentage of these will actually survive unless there is effective stewardship, which demands knowledge of efficient land management, an eye for the unforeseen, and certainly not death from above in the form of acid rain.

Tor Hansen
 N. Truro, Mass.



1st Woodcock: "Is this that disappearing Tulip Tree Tapestry Silk Moth they are talking about?"

2nd Woodcock: "Yes, but it is here on Viburnum!"

Reprinted from the Bergen County Audubon Society Newsletter by permission of the author.

BAY CHECKERSPOT MAKES WALL STREET JOURNAL

An item in the Wall Street Journal of April 23, 1987 concerning the Bay Checkerspot, *Euphydryas editha bayensis* was sent to the NEWS by member Ray Bracher of South Bend, Indiana. The item, written by Ken Wells, a staff reporter for the newspaper, reported on the different outlooks followed by two large companies when confronted with the fact that a butterfly proposed for the Endangered Species list had a portion of its limited habitat on their respective properties. One company set aside the habitat as a butterfly preserve and is adopting the butterfly as its mascot. The other company is still fighting the issue. The outcome of the matter, only time will tell, but for the present it is interesting to note that *Euphydryas editha bayensis*, including a drawing of the butterfly, has made the Wall Street Journal, a feat most Lepidopterists are never apt to accomplish.

A WORD OF CAUTION.....

When you purchase or sell specimens with a Dealer or specimen supply firm, make it a point to read and fully understand the terms of sale. Do this before sending any money or specimens.

Many members of the Lepidopterists' Society have conducted business with W. Bryce Richfield of Goleta, California and have had some very unsatisfactory results. However, had these members read the terms and condition of sale, these situations could very well have been avoided.

W. Bryce Richfield clearly states in his terms and condition of sale that the dealer has the option to exchange, replace, refund, or issue a voucher. On unfilled orders or parts thereof, a backorder or voucher may apply. He further states that unlike other dealers, he does not, with rare exception, refund, and is not legally obliged to do so.

W. Bryce Richfield operates and conducts his business from a Post Office box and does not list a phone number.

Before doing business with W. Bryce Richfield or any other dealer or firm, be sure to read and understand the terms and condition of sale.

Leroy C. Koehn
16225 Huntley Rd.
Huntsburg, Ohio 44046

COLLECTING IN EXOTIC PLACES

A Society member has recently expressed concern that when some collectors travel to foreign countries on their own, they are often unaware of the rules about insect collecting in that country. He was seeking a direct and simple way to learn collecting regulations in such circumstances. Because of the large number of countries in the world where butterflies are found and because of the rapidity with which rules and responsibilities can change, a directory of such information would be difficult to compile and even more difficult to keep current. However, the concern raised is certainly a valid one which is increasingly going to be faced by our members who travel outside their own country. The collecting requirements have probably (but not necessarily) been fulfilled if one is on an "insect safari." It would be in the best interest of any travellers who wish to collect insects in exotic places to contact the Embassy of that country well in advance and to find out for themselves what rules apply. Many large cities have Embassy offices whose addresses can be gleaned from the telephone directory; and of course, most countries that one might travel to have Embassy offices in Washington, D.C. By contacting the officials early, it would be possible to find out what is required in time to avoid unpleasant situations later. Since rules can change rapidly, it would be expedient to make contact with officials before each planned trip to a given country.

EURYTTIDES ORABILIS (PAPILIONIDAE) IN ECUADOR: A NEW RECORD

Euryttides orabilis (Butler) is listed in the literature as occurring in Colombia, Panama, Costa Rica and doubtfully Guatemala (Rothschild & Jordan 1906, Novit. Zool. 13:412 752; Jordan 1907, in Seitz *Macrolepidoptera of The World*, Vol. 5, Alfred Kern Verlag, Stuttgart, 592 pp.; D'Almeida, 1965, *Catálogo dos Papilionidae Americanos*, Soc. Braz. Entomol., Sao Paulo, 366 pp.; D'Abreu, *Butterflies of The Neo Tropical Region, Part I, Papilionidae and Pieridae*, Lansdowne, East Melbourne, 172 pp.). The late Hamilton A. Tyler (personal comm.) had mentioned it as occurring in Ecuador, but at the time had no actual specimens to substantiate the claim, and to my knowledge no one else did either. Recently, however, Julius Boos, a good friend of mine living in Quito, Ecuador, sent me a batch of butterflies he had personally collected. He sent a number of interesting things including some Papilionidae. In the box were two fresh specimens of male *Euryttides orabilis isocharis* collected on April 1, 1984, in Pichincha province, road to Santo Domingo de los Colorados, Rio Toachi. These were collected, along with *Euryttides molops*, near the river, in primary forest. This seems to be typical of this species, as I have personally collected *E. orabilis orabilis* in Costa Rica at Cariblanco and found it to prefer flying near watercourses in primary forest. It was quite local there and by no means common, only around five being seen on a good day. This is also noted by Philip DeVries (personal comm.). I would like to thank Julius Boos for supplying the specimens so that this new range extension could be published. Both specimens are in the author's collection.

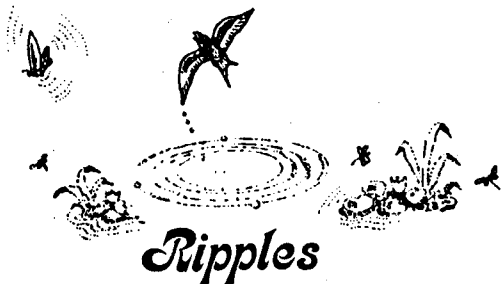
Richard Rozycki
Chicago, Illinois

From The Editor's Desk

June Preston



By the time this issue of the NEWS reaches you readers, my husband and I will be off on our butterfly collecting vacation, with attendance at the Annual meeting in Berkeley a prime factor for our going to the West Coast this summer. We are hoping for good collecting during our meanderings through the western states, and hope collecting is good for all lepidopterists, no matter where you might be. Several members have sent me cartoons from newspapers and magazines during the past year. I appreciate receiving the cartoons, and they are pasted up on my refrigerator for my continued enjoyment, but I don't want their contributors to feel bad because I haven't published them. These items are all copyrighted and in order to be published, the copyright fees must be paid. The Society does not have funds to pay these copyright fees, nor do I have time for the volumes of correspondence required to get publication permission, independent of paying the required fees. The matter of printed articles from newspapers or magazines is quite different. I appreciate receiving all the articles about butterflies and moths that appear in print, but need to know the exact source of the article, date of publication, reporter or author, dateline, etc. before I can make use of it. These articles cannot be printed in the NEWS verbatim without paying copyright fees either, unless sent me by the author along with publication permission, but the pertinent information can be abstracted from these articles for publication without running afoul of the law. Do keep the letters, articles, news items of note and notices coming. It is your contributions that keep the NEWS interesting and timely.



Jo Brewer, Ed, 257 Common St, Dedham, MA 02026

Dear Ripples,

I note Mr. Gorelick's letter, detailing his problems with psocids. I too, as I suspect most all of us insect collectors have at one time or another, struggled with this pest. In my early years of collecting, I discovered that most of the psocids I would see were living on my spreading boards. Since 1972, I have made it standard practice to place all filled boards in a low temperature oven after two days at room temperature. This has completely eliminated the psocid problem on my boards. Also it allowed specimens to be dried within days. Very small to small leps in oven for 24 hours and larger leps for 48 hours. The correct temperature for drying most insects is 105°-115° F. For many years I used the kitchen oven, but then graduated to an industrial drying oven several years ago. I have successfully dried 400,000 insects using this method. Of course, this will not completely solve the psocid problem, as they can be found virtually everywhere. I was forced to store my collection in a separate structure away from living areas, which allowed me to fumigate the storage cases, cabinets, floors, windows, etc. I have found a liberal application of insecticide, such as Rid-a-bug, on the floors in the storage area to work on all museum pests. Inside specimen drawers, I use PDB and Naphthalene as most all of us do. I have noted that psocids are not killed using "no pest strips", even in closed containers.

Vernon A. Brou, Jr.

Abita Springs, Louisiana

The psocid problem is new to me here in Massachusetts. How about comments from other areas!-J.B.



U.S. MEMBERS NEEDED TO ASSIST FOREIGN MEMBERS HAVING DIFFICULTIES PAYING DUES

It has come to our attention that many members of the Society living outside of the United States have had difficulty paying their dues because of the requirement that dues be paid in U.S. funds or by checks drawn on U.S. banks. Some members have had to let their memberships lapse because of this requirement. However, in British Commonwealth countries, bank drafts drawn on a U.S. bank can be obtained from any Barclay's bank. Postal coupons or International Postal Money Orders are also acceptable forms of payment. Also, some foreign members have indicated an interest in continuing membership if someone in the U.S. would pay their dues in exchange for specimens. Any U.S. members interested in assisting our foreign country members in this manner, please contact the Secretary, Dick Arnold, 50 Cleaveland Road, No 3, Pleasant Hill, California 94523; phone (415) 825-3784.

BUTTERFLIES TO TRADE FOR LIFE MEMBERSHIP

WANTED: A benefactor to assist a former member of The Lepidopterists' Society from Turkey to help pay for a life membership in our organization. Dr. Oktay Onaran (Bursa Deulet Hastanesi, Acil Servis, Bursa, TURKEY), would like to make contact with members in the U.S.A. who would pay his life membership fee, \$350.00, in exchange for specimens of *Archon apollinus*. Interested parties should contact Dr. Onaran to make the necessary arrangements.

XERCES FOURTH OF JULY BUTTERFLY COUNT

The 1987 Xerces Society Fourth of July Butterfly Count will be held from June until August. Interested Lep. Soc. members should write to Paul A. Opler, 5100 Greenview Ct, Ft. Collins, CO 80525, for information, instructions and forms. The date of the count should coincide with optimum collecting in your area and the same approximate date then be used in successive years.

THE MOTHS OF AMERICA NORTH OF MEXICO: Progress Report

During its first 15 years *The Moths of America North of Mexico* series suffered various setbacks, and publication was irregular, often with long intervals between parts. A major cause of delay was a shortage of manuscripts. Potential authors, unconvinced that the project could continue, hesitated to commit the time and resources necessary to complete larger papers specifically designed for this series. This is understandable because a taxonomist might spend years on such a project (almost invariably longer than anticipated, as it has turned out), only to find that the publisher has gone out of business. We are at last in a position to announce that major changes in the organization and operation of the Wedge Entomological Research Foundation have resulted in a financially sound and stable publication program. The major objective now, aside from regular publication, is to develop an endowment fund specifically to help authors cover illustration costs and to eliminate the need for assessing page charges.

The author shortage is no longer a problem, and several parts are nearing completion. In most cases these will cover groups never before revised or illustrated anywhere in the literature. Some readers may wish to contact authors concerning distribution records, inclusion of specimens for study, information on hosts, or taxonomic problems. J. D. Lafontaine's large work on cutworms of the genus *Euxoa* (Noctuidae) is in press and should appear in late August 1987. T. D. Eichlin and W. D. Duckworth's revision of the Sesiidae is in the pipeline and is anticipated to appear in June 1988. Others in advanced stages of preparation are: 1) Hadenini (*Sparkia-Sideridis*) (Noctuidae) by T. L. McCabe; 2) *Catocala* (Noctuidae) by L. F. Gall (assisted by H. D. Baggett, A. E. Brower, D. Hawks, and D. F. Sweitzer); 3) *Sympistini* (Noctuidae) by R. W. Poole; 4) Noctuinae, part (Noctuidae) by J. D. Lafontaine; 5) Notodontidae by J. G. Franclemont; 6) *Semiothisini* and *Abraexini* (Geometridae) by D. C. Ferguson; 7) *Sterrhinae* (Geometridae) by C. V. Covell, Jr.; 8) *Phycitinae* in part--the stored products pests and associates (*Pyralidae*) by H. H. Neunzig; 9) *Tortricini* (*Tortricidae*) by P. T. Dang; 10) *Choreutidae* by J. B. Heppner; 11) *Argyresthia* (*Argyresthiidae*) by P. A. Opler; 12) *Chionodes* (*Gelechiidae*) by R. W. Hodges; 13) *Coleophorinae* (*Coleophoridae*) by B. A. Wright; 14) *Ethmiinae* and *Stenommatinae* (*Oecophoridae*) by J. A. Powell and R. W. Hodges; 15) *Gracillariidae* by D. R. Davis; 16) *Tineidae* by D. R. Davis; and 17) *Nepticulidae* by D. R. Davis and C. R. Wilkinson.

Ronald W. Hodges, Managing Director
Wedge Entomological Research Foundation
c/o National Museum of Natural History
MRC-127, Washington, D.C. 20560

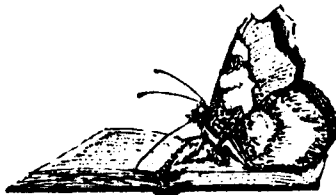
OHIO LEPIDOPTERISTS' MEMBERSHIP INVITATION

The Ohio Lepidopterists' (founded 1979) cordially invite you to become a member. Four quarterly newsletters. Discount prices on various entomological supplies and publications to members. Membership dues are \$5.00 annually (\$3.00/student). Send dues with name, address, and interests to: David C. Iftner, 2161 Heatherfield Avenue, Worthington, Ohio 43085.

SEASON SUMMARY CORRECTION

Zone 4. The report of *Erebia magdalena* from Wyoming on pg 21 should be from JOHNSON Co, not Big Horn Co.

Books



BOOK REVIEW

Butterflies and Moths of Missouri by J. Richard and Joan E. Heitzman, 385 pages, 6" x 9", published by Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO 65102; Kathy Love and LuAnne Larson, Editors; Jim Rathert, Principal Photographer. It retails for \$12.50 (Missouri residents add 78¢ tax), and can be obtained from the publisher. There are 833 color plates in this handy little paperback which briefly describes 324 butterflies and moths found in Missouri, with most of them being common also in many other midwestern states. All of the butterflies found in Missouri have been included but, because of the large number of moths involved, only about 5% of the moths are shown. Adults are pictured and foodplants given plus larva are described when known. The photography is outstanding with both dorsal and ventral views in many instances. There are also several excellent photographs of selected larvae and pupae. A short illustrated section is included describing the lepidopteral life cycle and also a list of common nectar sources and indicator flowers, plus there is a brief section on collection methods and equipment and a few paragraphs on conservation and preservation. The bulk of the book contains the sections entitled Descriptive Text of Butterflies and Skippers and Descriptive Text of Moths. The book is well indexed. Although a map showing Missouri Counties is included as well as one showing the 5 geological-biological natural areas of the state, they are basically used very little in the text and, unfortunately, no data are given for any of the pictured specimens. Flight times and localities for each species are given in general terms only, but the photography is so outstanding that it may well be one of the best references for identification purposes to be published to date. The book is geared toward the amateur lepidopterist or nature lover but would be a welcome addition to any library.

June D. Preston

BOOK AVAILABILITY

It has been called to our attention that the recently published book on the butterflies of Costa Rica, entitled **Butterflies of Costa Rica and Their Natural History**, mentioned on pg 44 of NEWS #2, 1987, was written by Philip DeVries and published by Princeton University Press, Princeton, New Jersey 08540. It can also be ordered directly from the publisher. Cost is \$22.50 paperback or \$60.00 clothbound.



Research Notices

● Data are needed for a forthcoming county atlas, checklist and general field guide to the butterflies of North Dakota. Information thus far gathered into a comprehensive database for the effort includes season summary data through 1986, records previously noted in Puckering and Post (1960), Knudson and Post (1963), and McCabe and Post (1977), plus direct information from the state's two universities and a variety of other unpublished sources. Needed by September, 1987, are any other available unpublished records on North Dakota occurrence, habitat, foodplants, etc., that will not have appeared in any of those resources. Contributions will be acknowledged in the resulting work. If you can offer any such information, please contact Ron Royer, Division of Science, Minot State University, Minot, North Dakota 58701.

● Wanted: Correspondence and/or exchange with anyone having collected any *Eupsilia* sp. in N.America I would appreciate any and all capture records especially those during winter months. Weather data would also be helpful. Barry S. Nichols, 7004 Ethan Allen Way, Louisville, KY, 40272, USA.

New Members



AFFUL, GEORGE B: P.O. Box 883, Accra, GHANA (West Africa).
AFFUL, RICHARD B.: P.O. Box 883, Accra, GHANA (West Africa).
BALLMER, GREG: Department of Entomology, University of California, Riverside, CA 92504.
BERGAL, MICHAEL: M.P.O. Box 743, Niagara Falls, NY 14302.
BORTON, GARY: 106 Wright Avenue, Toronto, Ontario M6R 1L2, CANADA.
BRINNER, BOB: c/o J. Sample, P.O. Box 8412, Parma, OH 44134.
BUHL, JAN (Mr.): 7733 Bahama Court, Fair Oaks, CA 95628.
GOHARA, MASATOSHI: USDA, ARS, SWSL, P.O. Box 350, Stoneville, MS 38776.
GRAY, RICHARD E.: Rural Route 02, Box 205, Enfield, NH 03748-9722.
JANZ, LLOYD J.: 310 9th Street South, Cranbrook, British Columbia V1C 1R1, CANADA
LEEN, ROSEMARY: Division of Biological Control, University of California, 1050 San Pablo Avenue, Albany, CA 94706.
LEHMAN, CURTIS A.: 436 Ella Street, #2, Pittsburgh, PA 15221.
RISSLER, MICHAEL: 4441 Oriole Court, Casper, WY 82604.
SAUL, LESLIE: Insect Zoo, San Francisco Zoological Society, Zoo Road & Skyline Blvd., San Francisco, CA 94132.
TUNZER, PENNY: 2507 North 65th Street, Omaha, NE 68104.
VILCINSKAS, ASHLEY: 50 Ben Chandler Cove Road, Marshall, NC 28753.
WEBBER, HILTRUD (SAM) (Mrs.): Rural Route 02, Box 98, Piedmont, MO 63957.
WEISSE, THEODORE: 11 Acre View Drive, Northport, NY 11768.
WINFIELD, MARC: 7655 Airport Boulevard, Los Angeles, CA 90045.
WRIGHT, BARRY: Nova Scotia Museum, 1747 Summer Street, Halifax, Nova Scotia B3H 3A6, CANADA.

Address Changes



ANDERSON, RICHARD A.: 836 Amelia Court NE, St. Petersburg, FL 33702.
 BODNAR, FRANK R.: 1201 Ridge Road, Apollo, PA 15613.
 DAUTHUILLE, DOMINIQUE (Dr.): CENTRE ORSTOM, d'Adiopodoume 01, B.P. V-51, Abidjan 01, IVORY COAST (Africa).
 ENTERLINE, HORATIO T. (M.D.): 13149 McDouglas Road, Athens, OH 45701-9637.
 MULLALY, WALLACE J.: 1111 North 64th Street, #46, Mesa, AZ 85205.
 SMALL, GORDON, B., JR.: P.O. Box 6704, San Francisco, CA 94101-6704.
 THOMPSON, DAVID M.: Rancho Santa Ana Botanic Garden, 1500 North College Avenue, Claremont, CA 91711-3101.
 TUCKER, JAMES R.: 5600 Green Acres Lane, Redding, CA 96002.
 WAGNER, DAVID L. (Dr.): Entomology Research Laboratory, University of Vermont, 655 Spear Street, South Burlington, VT 05401.

CORRECTIONS AND MINOR CHANGES TO THE 1986 MEMBERSHIP DIRECTORY

SCHWARTZ, JOHN D.: CHANGE USARI # TO "#43."

Due to an inexplicable computer error, the Directory listings for Frank Gregus and John McFeely were jointly garbled. While we await a clarification from Mr. Gregus, Mr. McFeely has responded with this corrected entry:
 McFEELY, JOHN. 90 Stonechat Avenue, Abbeydale, Gloucester GL4 9XF, ENGLAND. RHOP, Apaturinae, Charaxinae, Preponini, esp. Agrias, Apatura, Charaxes, Prepona, Sasakia; pairing & breeding larger Nymphalidae; life history, ecology, photography, correspondence invited. Professional breeder-dealer. Coll., Exch., Buy, Sell.

The Market Place

Buy • Sell • Exchange • Wants



Items submitted for inclusion in this section are dealt with in the manner set forth on page 8 of the Jan/Feb 1987 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 calls for a 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: "The Butterfly Book", Holland, W. J. (Nature Library Series, 1920); "The Moth Book", Holland, W. J. (Nature Library Series, 1920); "Butterflies of the West Coast", Wright, W. G., (plates only). Make offer. R. E. Wells, 303-B Hoffman Str., Jackson, CA 95642, phone (209) 223-1170.

FOR EXCHANGE: Parnassians, Colias and Arctic butterflies desired in exchange for butterflies of Europe and Ladakh, including rare Parnassians. Jean Hanus, Le Devenson, Allee des Pins, Marseille 13009, FRANCE.

FOR SALE: Holbrook Travel Gift Certificate good for any Holbrook Lepidoptera Expedition through 1987. Transferable. Will sell for half price. Contact Pat Savage, P.O. Box 1412, St. George, Utah 84770. Phone (801) 673-6849.

FOR SALE: Bhutanitis lidderdalei -- In lots of 1 to 6, 7 to 12, and 13 to 25. Larger quantities available, price negotiable. Write for prices per lot. From captive bred stock. Also, 2 copies of D'Abrera's Butterflies of the Australian Region 1st Edition (1971), with dustwrappers and D'Abrera's Birdwing Butterflies of the World with slip case. Nice condition! Best offers! ALSO FOR SALE: Still have about 50 pairs of Papilio bairdii f. brucei from last years' breeding experiments. All are A1 quality w/data from Utah. Also, several pairs of f. bairdii at the same price. Will also exchange. S.A.S.E. to: Wayne H. Whaley, C/O Alva O. Lewis, 196 West 200 North, Springville, Utah 84663, U.S.A.

MEMBERS COMMERCIAL NOTICES.....

PAUL OPLER, 5100 Greenview Ct, Ft. Collins, CO 80525.
 FOR SALE: Butterfly photos taken in nature. Slide copies and enlarged photographs, framed or unframed, with and without mats. Species and price lists available. Both eastern and western U.S. species.

ENTOMOLOGICAL CLEARING HOUSE, INC, P.O. Box 778, Hales Corners, Wisconsin 53130, USA. FOR SALE: Very large selection of insects from all parts of the world. Many very rare and unusual species offered such as Titanus giganteus, 10-16 cm; Copiopteryx jehova; Agrias phacedon; Papilio esperanza and African Saturniidae including Athletes species. In addition to our regular free price lists, we can now offer specialized computer lists of specific families, either worldwide or by country, upon request. As always, ECH is also interested in purchasing or trading for your surplus material.

JOHN TROTTER, 11 Laurel Way, London N20 8HR, U.K. Phone 01-445-4293. FOR SALE OR EXCHANGE, Ova of moths, D. elpenor, Sphinx ligustria, L. populi, C. vinula, S. pavonia, L. quercus, A. caga; of butterflies, European large copper, Orange tip Brimstone; Foreign silk moths, A. pernyi, A. harti, A. selene. WANTED: Ova of USA Hawk moths, Papilionia or similar non-European butterflies, esp. Citrus and Passion Flower feeders. Please give details of food plants if possible.

IANNI BUTTERFLY ENTERPRISES, P.O. Box 81171, Cleveland, Ohio, 44181. Phone: (216) 888-2310. Excellent quality insect mounting pins including, Standard black, Elephant, Stainless Steel. Best prices available. Worldwide butterflies, moths and beetles for all price ranges. Superior quality, double boxed for shipping safety. Very personalized service to the beginning or seasoned collector. Offering the most popular books and supplies and, once again featuring THE ENCYCLOPEDIA OF THE BUTTERFLY WORLD IN COLOR. Specializing in Papilio, Morpho and Heliconius. Send \$5.00 for one year subscription to price lists.

AMERICAN BIOLOGICAL SUPPLY CO., 1330 Dillon Heights Ave., Baltimore, MD 21228. Phone: (301) 747-1797. Everything you ever wanted for butterfly collecting. Send for catalogue (\$1.00 to cover postage). Insect pins, spreading boards, nets, Riker mounts, pinning trays, cabinets, drawers, books etc. SPECIAL: D'Abrera's Butterflies of South America - over 700 colored butterfly figures, \$19.50 less 10% with your order for other items.

TRANSWORLD BUTTERFLY COMPANY (LS), Apartado 6951, San Jose, COSTA RICA, C. America. NEW SUMMER/FALL CATALOG now available with new material from all regions of the world. Specialists in rare Morpho, Parnassius and Papilionidae. State interests when writing. Catalog \$1.00 or \$6.00 for year's Catalogs/Newsletters sent monthly via airmail. NATURALISTS RANCH & LODGE offers Butterfly/Moth/Beetle collectors fully-inclusive program including accommodations, meals and field-trips. Maximum 6 persons per group. Write for brochure. Butterflies of Costa Rica and Their Natural History, book available. Full details on request.



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

NON-PROFIT
ORG.
BULK RATE
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, KS 66044, USA. RIPLETS EDITOR is Jo Brewer, 257 Common St, Dedham, MA 02026, 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, 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 \$350. 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, USA.

Information on Membership and other aspects of the Society must be obtained from the SECRETARY, Dr. Richard A. Arnold, 50 Cleaveland Rd, #3, Pleasant Hill, California 94523, USA.

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. William E. Miller, EDITOR, JOURNAL of the Lepidopterists' Society, Department of Entomology, University of Minnesota, St. Paul, Minnesota 55108, USA. 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, 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, \$10 cloth, \$5 paper; non-members, \$17 cloth, \$8.50 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, \$6; non-members, \$10, postpaid.

1986 MEMBERSHIP DIRECTORY (current to November 1986). Biennial directory of members and their addresses, with geographic and interest indices. Not available for commercial use. (NEWS #6 for 1986). \$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.