



NEWS

of the LEPIDOPTERISTS' SOCIETY

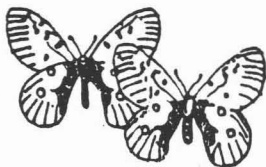
No. 3 May/June 1987

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NEW BUTTERFLY VENTURES IN ENGLAND GENERATE MAJOR PUBLIC INTEREST

English lepidopterists have long contributed in a major way to scientific and popular interest in butterflies. E. B. Ford's book on Butterflies in 1945 and its subsequent reprintings engendered serious worldwide study of many aspects of butterfly biology. English researchers have also led the way in butterfly conservation efforts. Since relatively few members of the Lepidopterists' Society may be aware of the extraordinary developments there in the past six years, a few of the relevant facts are reported in this article, along with addresses for pertinent publications and "editorial" comments as to what we as a Society could be doing to enhance worldwide interest in Lepidoptera.

1. Butterfly Houses and Butterfly Farms. About 80 commercial butterfly farms now exist in the United Kingdom, and in 1985 alone, an estimated one million visitors filed through these farms. About half a million persons visited the four major Butterfly Farms opened and owned by Clive Farrell, a remarkable lepidopterist, visionary and businessman who opened his first farm, the London Butterfly Farm, in 1980. Set in its own medieval meadow in the middle of Syon Park, one of London's most popular parks and stately manors, the Butterfly House faces the banks of the River Thames and is very popular for day trips, so much so that a special public bus route was established to handle the demand. Other butterfly farms have been opened by Farrell at Weymouth in Dorset, Stratford-upon Avon in Warwickshire, and Edinburgh, Scotland. All share dramatic plantings simulating tropical rain forests complete with streams, waterfalls, and even lakes, under a complete canopy of glass.

Butterflies from around the world fly freely in these large natural enclosures and many breed. Giant spiders, scorpions, non-insect-eating birds, and other animals join the list of attractions for the public. Educational literature and displays are available for all ages to enjoy. Admission costs are less than \$5 for adults. Their popularity and impact on the British public and tourists from abroad has been phenomenal. Banks, department stores, terminal buildings, etc., frequently request Butterfly House staff to set up living displays of butterflies and tropical vegetation in sidewalk windows or self-contained enclosures. Constant attention is paid by newspapers, magazines, radio and television to the

openings of new exhibits or unusual new species that may be set up that week. Overall, the vitality and attractiveness of these butterfly farms and houses has awakened a great public interest in butterflies of Britain, of tropical countries, and of conservation of wildlife and habitats everywhere. Information on some of the leading butterfly farms now operating in the United Kingdom may be obtained from The Weymouth Butterfly Farm, Lodmoor Country Park, Weymouth, Dorset DT4 8BR, England [telephone (0305) 776300].

Clearly, there is a great untapped commercial market available in this concept of butterfly display areas, not only for developed nations such as the United States (where at least two are now in the advanced planning stage) but also in less developed nations where tourism can be a powerful economic input. Southeast Asia's first public Butterfly Farm opened in 1986, situated about 17 kilometers up the coast from Georgetown in Penang, Malaysia. While a number of butterfly farms (in the sense of rearing butterflies on a large scale for sale or trade) have existed in Britain, the United States, France, Germany, Papua New Guinea, Brazil, Costa Rica, Taiwan, Malaysia, and other areas for years, these new ventures that emphasize public display of living butterflies in near-natural surroundings represent an important development in Lepidoptera interest and conservation in the 1980's.

2. The Butterfly News. In 1985, Clive Farrell started a new venture in England, a publication called Butterfly News. Printed in newspaper-sized format and usually about 20 pages in length, this publication has been highly successful and Issue No. 9 was published in October-November 1986. (Back copies of Nos. 1-8 are still available from the publisher's address at the end of this section.) Every page is packed with interesting articles, halftone and lavish color photographic spreads. Activities of the British Butterfly Conservation Society are prominently mentioned. Other subjects covered in recent issues include butterflies of the rainforests of Malaysia, a new butterfly ranch in Sri Lanka, and the exclusive inside story of how the Large Blue -- extinct in the United Kingdom for the past seven years -- has been re-established in the West Country in Britain from Swedish stock in July 1986 (with an earlier successful pilot re-introduction in 1983).

Regular columns include reviews of new butterfly books, new projects at the various butterfly farms, butterfly gardening and conservation, profiles of English species, worldwide butterfly news (keeping one up-to-date on such projects as saving the monarch overwintering sites in Mexico, butterfly farms and conservation in Taiwan, etc.), and famous butterfly personalities such as Mariam Rothschild and E. B. Ford. The News has recently joined the prestigious SLR photographic magazine in a massive promotion among SLR's 600,000 readers for the

best butterfly pictures taken in Britain (both domestic species in the wild and tropical species at one of the four main farms).

Strong promotional efforts are being made to plant millions of native wildflower seeds through Britain, along highways and in vacant lots, to help bring back meadows and the butterflies that inhabit them. Advertisements provide listings of books on butterflies and moths, livestock suppliers, entomological equipment, etc., for the enthusiast and novice alike.

The purpose of the BUTTERFLY NEWS is severalfold: to offer as inexpensive a medium as possible to tell the public just what is going on in the work of butterflies and keep people up-to-date with all the news from the butterfly farms in England (copies are available to the half-million visitors a year), and second, to continue fostering the great public interest in butterflies in the United Kingdom which has been started by the farms themselves. It is distributed by mail and direct sales to more than 100,000 readers. (Our international Lepidopterists' Society, in existence for 40 years since its founding in 1947, has slightly more than 1,500 members.) Imagine the positive impact that so many thousands of regular readers of an attractive, interesting, popular publication on butterflies would have on public issues in conservation and preservation of the environment! Such impact is taking place right now in the United Kingdom as a result of the rapid success of the Butterfly News.

If you are interested in subscribing to this new publication, you may send your request and a check for 6 English pounds (or \$9.00 US) for a year's overseas subscription (1987) to: Ms. Jane Soole, BUTTERFLY NEWS, The Butterfly Farm, Lodmoor Country Park, Weymouth, Dorset DT4 7SX, ENGLAND. The back issues for 1985 and 1986 (9 in number) can be ordered for \$9.00 US total.

3. The British Butterfly Conservation Society. The British Butterfly Conservation Society was originally formed in 1968 by two keen amateurs who felt that little had been done to stimulate or co-ordinate work for the conservation of the British butterfly fauna, especially among the public at large. Today, the membership is over 3,000, many of whom actively carry out habitat surveys for the Society. John Tatham, current Chairman of the Society, has stated the objectives of the group in a recent issue of the Butterfly News:

(1) To save from extinction or protect all species of British butterflies, by conserving them in the wild by such means as are available or by breeding numbers in captivity and, where practicable, re-introducing them in natural habitats.

(2) To sponsor further scientific study and research in conservation of these butterflies both in the wild and in captivity.

(3) To foster interest generally by educating the public, and in particular, educational establishments, in problems concerning conservation of these butterflies.

There is a strong Junior Section, and in many schools Junior Groups have been established under the guidance of a senior member. A panel of speakers gives presentations on conservation, wildflower plantings are fostered, proposed development sites are monitored with the purpose of presenting relevant testimony to local planning authorities, and close liaison is maintained with local and national conservation groups and agencies. Some management of habitat areas is often carried out by members of the Society, such as scything undesirable grasses that might impinge upon more desirable butterfly plants or that provide cover for rodents feeding on certain butterfly pupae on adjacent bushes. The Society's philosophy is exported, with members in more than a dozen overseas countries. The BBCS NEWS is published twice annually.

Membership is open to the public. To apply to join, send your name and address with a check for 5 British pounds (or \$7.50 US) to: The Membership Secretary, British Butterfly Conservation Society, 19 Corner Close, Wellington, Somerset TA21 8QE, ENGLAND.

4. Butterfly and Moth Stamp Society. For those lepidopterists who are interested in pursuing philately



A Caligo memnon Owl Butterfly, a popular insect in European butterfly houses. Pencil drawing by Keith M. Spencer.

and capturing butterflies and moths on stamps from around the world, the recently-formed Butterfly and Moth Stamp Society, headquartered in Britain, would provide a valuable forum for exchanges of information and stamps. The Honorary Secretary of the Society would be pleased to provide further information in response to inquiries. Write to: Mr. Robin Cleeter, Butterfly and Moth Stamp Society, 3 Hildcote Gardens, London SW20 0UG, England.

In conclusion, I would like to urge that those of us in the Lepidopterists' Society and other international and regional lepidopterist and insect-conservation groups located in the United States and other countries outside the United Kingdom, might broaden our vision and membership bases in the same ways that our British friends have so effectively done. We each could actively recruit our students, colleagues, local friends and correspondents into the Lepidopterists' Society, the Lepidoptera Research Foundation, the Xerces Society, the Southern Lepidopterists, the Society of Kentucky Lepidopterists, the Ohio Lepidopterists, the Utah Lepidopterists' Society, the Lorquin Entomological Society, and the many other valuable regional organizations. We can speak out to local newspapers about preserving local habitats for butterflies and other valued wildlife. We can take a few minutes to write supporting letters when a national issue comes to our attention through one of our societies. We can support the establishment of local "insect houses" at our museums and zoological parks. We can encourage non-collectors to enjoy photography of butterflies and butterfly-watching, and to support our shared goals by their financial contributions through their memberships in such organizations.

We are all aware, I think, of the rapidly diminishing areas for butterflies (and people) to be "wild" in, not only in the United States and other industrialized nations but around the world. We should also make it known that future generations will not have very much left if we do not act now. Working together in some of the ways that our English colleagues have used, we might truly have a major impact on the public's thinking and raise the ecological consciousness of this generation to preserve and treasure what we ourselves enjoy in the

world of Lepidoptera. A continuing dialogue of useful news items and ideas exchanged in the NEWS OF THE LEPIDOPTERISTS' SOCIETY would be helpful towards reaching that goal.

Thomas C. Emmel, Director
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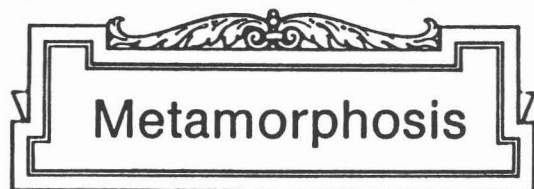
HONORS TO LATIN AMERICAN MEMBER

On August 22, 1985, Professor Jose Herrera G., the well known Chilean Lepidopterist and a long time active member of the Society, was awarded the National Prize on Education corresponding to that year by the Chilean Government. This is the highest distinction in the country recognizing 50 years of Professor Herrera's outstanding teaching activities in universities and colleges of Chile. Furthermore, the National College of Teachers resolved to dedicate the National Day to honor Chilean Teachers, October 22, 1985, to Professor Herrera as its most distinguished active member. In December 1986 he was also appointed Dean of the Faculty of Sciences of the Universidad Metropolitana de Ciencias de la Educacion, Santiago, a top university position from which he will direct and organize teaching and research for all natural sciences.

Meanwhile Professor Herrera still keeps active doing taxonomic research on Lepidoptera Rhopalocera at the important collection of Chilean Lepidoptera of the Instituto de Entomologia of the University in Santiago, about which he has published many valuable contributions during the past 45 years.

KRICOGONIA CASTALIA MAKES FRONT PAGE

The Arizona Daily Star in Tucson carried a photograph on page 1 on July 17, 1986 of a *Kricogonia castalia* during a migration of hundreds of thousands of them in the Tucson area. A friend sent the newspaper photo and accompanying article to Bryant Mather, who in turn sent it on to the NEWS editor. Periodically *castalia* swarms into Arizona from its home in Mexico, but it isn't usually in as large numbers or as early in the season as it was in 1986. It is not very often either that a butterfly makes the front page.



ANDRÉ BLANCHARD.....

Word has been received of the death of Andre Blanchard of Houston, Texas on October 17, 1986. He had been a society member since 1957, with interests in both Macro and Microlepidoptera.

JOSEPH W. ADAMS.....

The death of charter member Joseph W. Adams of Mt. Airy, Pennsylvania has been reported. He passed away on October 22, 1986.

ARTHUR CHARLES SHEPPARD.....

Charter Member Arthur C. Sheppard, of Laval, Quebec, Canada, passed away on March 10, 1987, aged 84 years. Mr. Sheppard served the Lyman Museum of Macdonald College, McGill University as Honorary Curator for 2 decades and his personal collection is now housed in the museum. He was author and coauthor of several papers on lepidoptera and was the discoverer of several

new species of insects, describing one himself and having several others named in his honor. He was a member of the Entomological Society of Canada, serving as secretary-treasurer in 1937 and 1946-1949 and as treasurer in 1950. He was involved with the Entomological Society of Quebec, serving as treasurer in 1951 and then as treasurer of the Montreal branch from 1952-1954, and was honored several years ago by the Quebec Society with the status of Honorary Member. He was also a member of the Quebec Society for the Protection of Birds and had been a member of the California Academy of Sciences from 1938 to 1947. He was associated in some manner or other with the Lyman Museum from 1918 until his death. He was a true and loyal friend and in every way a real gentleman and will be sorely missed by all his friends.

Submitted by V. R. Vickery, Emeritus Curator
Lyman Entomological Museum and Research Laboratory

MRS. FRANCES W. HARTNETT.....

death of Mrs. Frances W. Hartnett of Minoa, New York has been reported. She had been a Society Member since 1965.

From The Editor's Desk

June Preston



Spring seems to be finally coming to Kansas although a late hard freeze put the damper on early collecting. I'm aware that some parts of the North American continent are still in the midst of a deep freeze as I write this (early April), but also that there are parts of the world where butterflies and moths seem to fly all year long. For those of us in the colder climates however, spring is the time to begin thinking about collecting trips and when to go where for what, and we get anxious for the net swinging and baiting and trapping season to begin. My husband and I have been planning all winter for our summer of collecting. I've found the Season Summary valuable through the years in helping us to decide where to go and what to look for. Also, members contacted in various areas through the use of the Membership Directory have provided much valuable information to help us find what we are after. We look forward too to the Annual Meeting and to renewing old friendships and making new friends with people who have similar interests. The Lepidopterists' Society has become a very integral part of our lives over the years and even more so since I became NEWS Editor. I want to thank all of you who have expressed yourselves so favorably on the job I'm doing. If some of you readers are displeased, I'd appreciate hearing from you too.

The following two letters had to be deleted from NEWS #2 because of lack of space, but both deserve to be printed.

Dear June:

During the week of July 4, 1984, I travelled to the White Mountains of New Hampshire for a few days of summer collecting. While in the region, I noticed a peculiar absence of the White Admiral, *Limenitis arthemis*, in the usual habitats. Driving through North Woodstock on my return trip south, I decided to pull off at a local milkweed patch which I had discovered during the previous year near some woods. Although it was very late on a warm afternoon, there appeared to be a high degree of butterfly activity on the flowers. Upon closer examination, I found a multitude of species. Among them, a gathering of about 15 *Limenitis arthemis* happily nectaring on the blossoms. This was quite a surprise, as references do not list milkweed among the

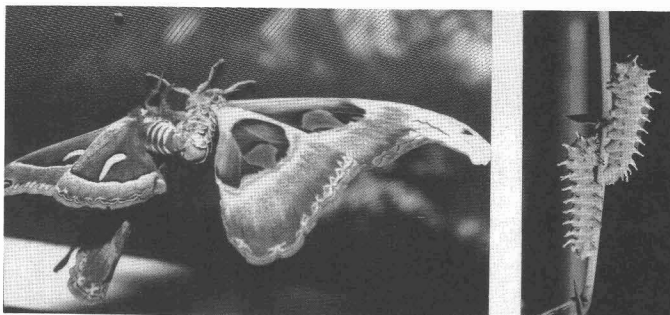
food sources of adult White Admirals, which prefer to suck moisture from animal dung or other nasty things. Collectors in search of *arthemis*, at least in the vicinity of North Woodstock, N.H., might be advised to include stops at roadside milkweed patches.

Harry Pavulaan

Dear June

Following up on the "Odd Couple", *E. imperialis* x *C. regalis*, I thought readers might like to see another. In my large walk-in flight cage, I found a male *Hyalophora euryalus* mating with a female *Attacus atlas*. The nearest calling female *euryalus* was 5 feet away in a cage. No other *atlas* were ever present. I was astonished to have 8 eggs hatch, but the larvae died before maturity. The photos show the mating *E. euryalus* and *A. atlas* plus two of the resulting larvae.

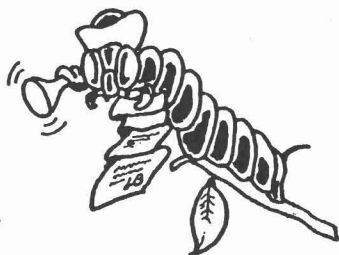
Bob Weast
Johnston, Iowa



Male *H. euryalus* and Female *A. atlas*
in copula

Resulting
larvae

Notices



JOURNAL UPDATE

Vol 41, #1 of the Journal of The Lepidopterists' Society should have been mailed by the end of April, and Vol 41, #2 is expected to be mailed in July. By years' end the JOURNAL should be back on schedule.

LIFE MEMBER'S WHEREABOUTS UNKNOWN

We are asking anyone with any information about Life Member C.Y. Yu of Moskusei Insects Co, P.O. Box 55-738, Taipei, Taiwan, Republic of China to contact Society Assistant Secretary, Julian Donahue, Natural History Museum of Los Angeles County, 900 Exposition Blvd, Los Angeles, California 90007, USA. The latest communication to Mr Yu was returned by the post office stamped "unclaimed," and it is desired to ascertain if Mr Yu has merely changed his address or possibly is deceased.

INSECT THIEF ARRESTED AT LACM

On Saturday, 7 March 1987, a visitor to the Entomology Section at the Natural History Museum (LACM) in Los Angeles, California, was arrested for stealing insect specimens and pins worth more than \$500. The curator of Lepidoptera, Julian Donahue, was called from home to identify the stolen specimens, which included an *Ornithoptera paradisea*, a *Papilio antimachus*, a *Papilio indra*, and six papered specimens of Atlas Moths. The suspect, a southern California resident who

had scheduled a visit to the research collection to identify specimens, had concealed the stolen Lepidoptera among personal specimens he had brought in for identification, while purloined beetles were removed from their pins and placed in an opaque jar of alcohol. Results of the court proceedings will be reported in a future NEWS.

INTERN NEEDED

In 1988 Callaway Gardens will be opening this nation's first major butterfly display. It will feature an enclosed tropical greenhouse display and an outdoor native butterfly garden. We need an intern to help develop educational programs and establish breeding facilities.

QUALIFICATIONS: Applicants need a strong background in the natural sciences with emphasis on entomology and/or experience in rearing butterflies and moths. Course work through sophomore year required.

BENEFITS: Pay is based on minimum wage. Housing is provided. Interns entitled to discounts at Gardens' restaurants, golf courses, tennis, etc.

TO APPLY send a letter of interest, resume, and three letters of recommendation. Closing date for applications is June 1, 1987. Position available June through August 1987. For more information contact: Frank C. Elia, Day Butterfly Center, Callaway Gardens, Pine Mountains, GA 31822. Phone: (404) 663-5102.

NEW FRENCH ENTOMOLOGICAL ASSOCIATION

A new organization, FRANCE ENTOMOLOGIE was formed on January 23, 1987. Its aims are to: 1. Encourage the knowledge of Entomology by organizing meetings, exhibitions and demonstrations and by the publication of books, diaries, pictures, etc concerning its activities. 2. Work for the protection of the natural landscapes necessary for the survival of threatened species. 3. Create, according to its resources, one, or several prizes for entomological activity. The Board of Directors consists of:

- M. Bernard Courtin (Journalist), President
- M. Jacques Plantrou (Dr of Sciences at Univ. of Paris), First Vice President
- M. Fabrice Zamarreno (Editor in chief), Second Vice President
- M. Frederic Courtin (Student), Executive Secretary
- Mlle. Christine Moreau (Journalist), Assistant Executive Secretary
- M. Jean Francois Gillon (Secrétaire Général), Treasurer

It held the first entomological meeting in the Central Region of France on April 4 and 5, 1987 in Blois (41), at the Palais des Congrès. There will be an Exhibition of butterflies, insects, entomological equipment and books close to Paris at The Centre Culturel de Vaucresson (92) from May 2 to 16, 1987. A computerized listing of French collectors will be created.

Costs of memberships are:

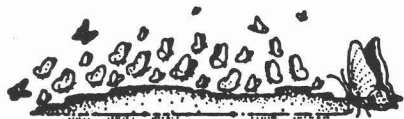
- 150 FF (\$25 US) for regular members
- 500 FF (\$83 US) for benefactor members

The address is: FRANCE ENTOMOLOGIE, 18 Sente des Chataigniers, F. 92380 Garches, France.

ZIP + 4 CONVERSION COMPLETED

In March, 1987, Assistant Secretary Julian Donahue, who maintains the Society's computerized membership database, completed adding "ZIP + 4" Zipcodes to the addresses of most Society members in the United States. Much of the conversion was done in time for the 1986 Membership Directory, but with this issue of the NEWS (1987 No. 3) the conversion is complete--check your mailing label. The U.S. Postal Service checked our entire mailing list, at no cost, and supplied the additional four digits that comprise this extension of the now familiar 5-digit Zip Code. These four new digits now

permit the automated sorting of mail to the actual carrier who delivers your mail (to be precise, the first 2 digits identify a delivery "sector," while the last 2 digits specify a particular delivery "segment," which may be one side of a street, a post office box, one floor of an office building, etc.). Although the Society at present receives no financial benefit from this conversion (we would have to make more than one first-class mailing a year for it to be profitable), Zip + 4 should make delivery of your Society publications faster and more accurate than ever. And there was another benefit: as part of the conversion program the Postal Service also checked and corrected errors in scores of street names and over 50 city names, and corrected 57 existing Zip codes. We also learned that we lack apartment numbers for some 32 members who live in apartment buildings. Since many of your recent dues notices included Zip + 4 addresses, we also learned that some of our members were unaware that their Zip code had been changed, or that the Postal Service and a member disagreed over the name of a street (we sided with the Postal Service, since they are the ones who deliver the mail!).



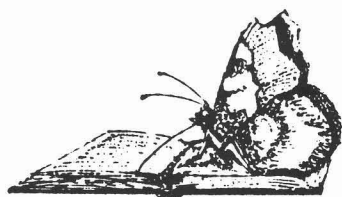
Forthcoming Meetings

THE LEPIDOPTERISTS' SOCIETY 38TH ANNUAL MEETING
University of California, Berkeley, CA., U.S.A.
June 25-28, 1987

The Department of Entomological Sciences, University of California, Berkeley, will host the 1987 meeting of the Society, during the last weekend in June. Please refer to the announcement on pg 11 of the Jan/Feb., 1987, issue of the NEWS of the Lepidopterists' Society for details.

Address questions to: J. A. Powell, 201 Wellman Hall, University of California, Berkeley, CA 94720, for matters relating to local arrangements; J. T. Sorensen, California State Dept. of Food and Agriculture, Lab Services, 1220 N Street, Sacramento, CA, 95814, for inquiries about the program. Late registrations are still being accepted.

Books



NEW BOOK

MARIPOSAS MEXICANAS (Mexican Butterflies) by Roberto de La Maza Ramirez. This is the first important illustrated contribution to the general knowledge of the Mexican Rhopalocera. Over 600 species are illustrated in full color (photographic plates) and natural size. Includes selections of the most representative, endemic and beautiful butterflies of Mexico, including the recently described taxa from 1950 to date. It offers information about Mexican lepidopterology history and the importance of the butterflies in prehispanic art. It also provides valuable collecting background information for Mexico, including vegetation types and principal collecting locations. The book measures 9" x 11" with 300 pages and 58 text color photographs, 3 maps and 67 color plates. The text is in Spanish. Hardbound, hardcover, cost \$60.00 U.S. plus shipping charges. It can be ordered from Javier de la Maza E., Bochil 340, Col. H. de Padierna, C.P. 14200, Tlalpan, D.F., Mexico.

BOOK REVIEW

Butterflies and Moths: A Companion to Your Field Guide by Jo Brewer and Dave Winter. A PHalarope Book, Nature and Hobby series. Drawings by Channing Thieme, photographs by the authors. Published by Prentiss Hall Press, New York, 1986. Paperback, 9 1/2" x 7", 194 pps and 4 full color plates. Priced at \$14.95. This lovely, easy to read book for the novice or beginning lepidopterist is packed with a wealth of information. The Appendices include a list of Endangered Species plus a short list of commercial suppliers, the Collecting Policy Statement of The Lepidopterists' Society, and a Glossary and a Bibliography. There is an adequate index, giving both technical and common names for the insects mentioned. The text delineates the pleasures and pitfalls of lepidoptera watching or collecting through all the stages of metamorphosis, illustrated in a charmingly narrative manner through the experiences of the authors. Mimecry for protective purposes is touched upon lightly as is the process of obtaining silk from caterpillar cocoons, in addition to the uses to which the caterpillars put it. Methods of collecting ova or larva for rearing, plus some rearing techniques are covered plus various methods used in collecting butterfly and moth adults and techniques for killing and preserving the insects, as well as hints for photographing lepidoptera. It is easy to understand and should be a must for all beginning lepidopterists.

June D. Preston

New Members



- ATKINS, STEPHEN B.: 1716 Buckingham Court, #D, Tallahassee, FL 32308.
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 NELSON, ROBERT D., II: 2016 Craig Lane, Birmingham, AL 35226.
 NELSON, RONALD R.: 2331 South KK Avenue, #A, Milwaukee, WI 53207.
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CORRECTIONS AND MINOR CHANGES TO THE 1986 MEMBERSHIP DIRECTORY

COURTIN, BERNARD: CORRECT home phone number is 1-47-41-21-01.
 GILMOUR, DAN: CHANGE P.O. Box No. to 4577 and DELETE "All Butterflies, Inc."
 ROEVER, KILIAN: NEW ZIP Code is "85051-3746."

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.

WANTED: Correspondence with anyone having conducted business of any nature with International Specimen Supply or a W. Bryce Richfield of Goleta, California. Please contact Leroy C. Koehn 16225 Huntley Rd. Huntsburg, Ohio 44046.

FOR SALE OR EXCHANGE FOR BOOKS: Parnassius delphius pulchra, male and female; P. sibiricus, male and female; Hyalophora seitzi, ex ova pairs; Spilosoma guttata male from Tian-Shan in Central Asia. If interested please contact Dr Vladimir Poláček, Pionyr 2, CS-25001 Brandys nad Labem, CZECHOSLOVAKIA.

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. Nice condition! Best offers! ALSO FOR SALE: Still have about 50 pairs of Papilio bairdi f. brucei from last years' breeding experiments. All are A1 quality w/ data from Utah. Also, several pairs of f. bairdi 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.

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.

WANTED: The following books and publications are desired. The Butterflies of the West Coast by W. G. Wright, On the Sphingidae of Peru by A. M. Moss, The Cranbidea of North America by C. H. Fernald, Butterflies of Cuba by D. Marston Bates, Monograph of the Genus Erebia by B. C. Warren, Butterflies of the Australian Region by B. D'Abrera. State condition and price. Contact Leroy C. Koehn, 16225 Huntley Rd. Huntsburg, Ohio 44046.

FOR SALE or EXCHANGE: One copy of each in good condition, The Bombycine Moths of North America, Part II Vol. IX, by A. S. Packard, and Illustrations of the North American Species of the Genus Catocala by Barnes & McDunnough. ALSO FOR SALE: Collapsible Bait Traps of exceptional quality and durability. Portable Light Traps with 8 or 15 watt BL, AC or DC power supply. Rearing sleeves of nylon fiberglass screen with a 22 inch zipper. For more information and prices, contact Leroy C. Koehn, address above.

FOR SALE: Surplus specimens of papered Malawian butterflies (mainly Charaxes but also some Papilios and others) and also some cetonid and other beetles. D. Lewis, 'Threeways', Sulgrave, Banbury, OX17 2SG, U.K.

CONTACTS WANTED: U.K. based butterfly breeder specialising in the larger Nymphalidae seeks contact with others worldwide with similar interests. My current projects include breeding Apatura, Charaxes, Chitoria, Dilipa & Sasakia. I am particularly keen to hear from breeders and collectors with field experience of Agrias, Prepona and other Neotropical Nymphalidae. All correspondence welcome. Contact John McFeely, 90 Stonechat Ave, Abbeydale, Gloucester GL4 9XF England.

WANTED: To purchase pupae or ova of North and South American moths (Saturniidae, Sphingidae or related species). Also pupae or ova of any Rhopalocera species from the Americas. Small or large quantities. Please send lists and offers of availability and prices to: Richard G. Bance, 7616 Hollywood Blvd., #316, Los Angeles, CA 90046.

FOR SALE: Hemileuca hera magnifica [papered]. An elegant, large, black and white member of the Hemileuca family, a must to fill out your collection of Hemileuca. SASE please. Also I may have ova of Rothschildia cincta [wild collected Mexican cocoons], and A. polyphemus oculea [N.M. variety], A. pamina, A. zephyria, A. io neomexicana, and H. gloveri. Jim Coleman, 5812 Leta Rd. N.E., Albuquerque, New Mexico 87107 U.S.A.

WANTED TO BUY One A1 Thysania agrippina, one A1 pair Coscinocera hercules, and one A1 pair Attacus imperator. Also want to buy any ova and cocoons of Saturniidae and Sphingidae. Send prices and availability list to Michael Benton, 3 Todd Drive, Brunswick, Georgia 31520. Ph. (912) 681-2245.

COCOONS AVAILABLE: Limited supply of H. cecropia, A. polyphemus, and A. luna, plus ample supply of C. promethia. Also ova available in June of H. cecropia, A. polyphemus, A. luna and C. promethia -- Also for the first time, H. columbia (Columbia larva feeds only on larch). Dr. Gardiner E. Gregory, Star Route Box 259, Orland, Maine 04472.

FOR SALE: Ova of A. io neomexicana, A. pamina, A. zephyria, H. gloveri, H. euralus, A. polyphemus oculea, and R. jorulla from wild collected Mexican cocoons. Also papered Hemileuca hera magnifica. Please send S.A.S.E. Jim Coleman, 5812 Leta Rd. N.E., Albuquerque, New Mexico, 87107, U.S.A.

WANTED, The following literature: "A classification of Sesiidae of America North of Mexico (Lepidoptera Sesiioidea)," Occasional Papers in Entomology (Sacramento) 26:1-54, 1977c and the "North American clear-wing moths family Aegeriidae," United States National Museum Bulletin 190:1-222, 32 plates 1946. Contact John P. Walas, 844 Red River Rd, Apt 810, Thunder Bay, Ontario P7B 5K4 Canada.

FOR SALE: All specimens papered, in good condition with full data. Charaxes from rain forests of Central Africa, Zaire; Brazzaville; Central African Republic, Bangui. Including C. candope, ummines, laodice, porthos, ameliae, tiridates, zingha, bohemani, monitar, varanes, protoclea. Also Charaxes from Bonga, Ethiopia. Many Cymothoe sangaris and Danaidae from Zaire. Many Charaxes from Letecia, Columbian port of Amazon, also Caligos. Large variety of Heliconiinae from Peru. Papilio - menestheus, hesperus, phorcas, nireus from Zaire. Papilios from Bonga, Ethiopia. P. thersites, Jamaica. Urania leilus and Historis orion, Columbia. Many Foresters from Central Africa. John Bradley, 90 Pembroke Rd, Clifton, Bristol BS8 3EG, England.

MEMBERS COMMERCIAL NOTICES....

P.T. CHANG, P.O. Box 873, Taipei, Taiwan 10099, Republic of China. FOR SALE ONLY: Dry butterflies, moths, beetles and other insects of the Taiwan Island. Also living cocoons and ova of Attacus atlas and rare butterflies and sexual mosaics and aberrations of butterflies and moths.

LONDON PUPAE SUPPLIES. 8, Glenville Ave, Enfield, Middlesex EN2 0ER, ENGLAND. Tel; 01 367 7940 The worlds premier suppliers of live lepidoptera PUPAE to BUTTERFLY EXHIBITIONS, RESEARCH INSTITUTIONS AND HOBBYIST BREEDERS throughout the world. Summer offers include cocoons of, (Moths), A. atlas, A. selene; pupae of A. atropos, (Butterflies) P. paris, P. palinurus, Idea leucone, Hebomoia glaucippe. Very many other species available, price list on request.

IMOGENE L. RILLO, P.O. Box 1666 Manila, Philippines. Selling Philippine butterflies and beetles. Send \$1.00 for postage and pricelist.

JOHN McFEELY, SPECIALIST BUTTERFLY SUPPLIES, 90, Stonechat Avenue, Abbeydale, Gloucester GL4 9XF ENGLAND. Please send \$2 cash for latest lists of highest quality livestock and specimens from around the world. Also wish to contact any breeders able to supply large or small quantities of live lepidoptera from any world region.

APOLLO BOOKS, LUNDBYVEJ 36, DK-5700 SVENDBORG, DENMARK. The Lepidopterists' bookseller. D'Abrera: Sphingidae Mundi. Hawk Moths of the World. 256 pages. 25 x 34 cm. Covering 1050 species, shown life size, most of them in full color. AVAILABLE NOW! Ask for a free color brochure. Price DKK (Danish Kroner) 1,170. D'Abrera: Butterflies of the World. Afrotropical Region, DKK 1,100; Neotropical Region, Part 1, DKK 1,260; Part 2, DKK 1,260; Part 3 (publication early 1987), DKK 1,260; Oriental Region, Part 1, DKK 1,260; Part 2 DKK 1,290; Part 3, DKK 1,200. ASK FOR OUR FREE 24 PAGE ENTOMOLOGY CATALOGUE. CONTAINS MAINLY BOOKS ON LEPIDOPTERA. For your information: 1 US \$ = approx. 7.50 DKK.

JORIS A. BRINCKERHOFF, Apdo 323, 6150 Santa Ana, COSTA RICA. Because of graduate school, must leave butterfly farm with competent and enthusiastic management. Looking for buyer or manager. The farm has a fully established infrastructure and guaranteed market, is legally recognized, possesses a government export contract and is solidly profitable. Please write for further information.

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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. RIPPLES EDITOR is Jo Brewer, 257 Common St, Dedham, MA 02026, USA.

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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.

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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.