



NEWS

of the LEPIDOPTERISTS' SOCIETY

No. 1 Jan./Feb. 1987

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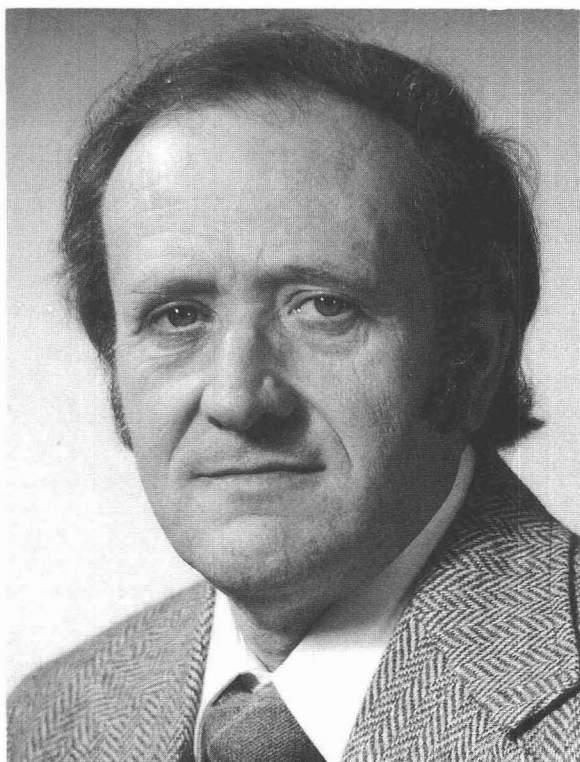
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Presidential Profile

Douglas C. Ferguson, a Research Entomologist with the Systematic Entomology Laboratory, Agricultural Research Service, located at the National Museum of Natural History in Washington, is the current President of The Lepidopterists' Society. He was born in Halifax, Nova Scotia, where, as a youth, he was constrained by ill health and often did as little work as possible, preferring to wander the hinterland in search of birds and butterflies. This early solution to boredom grew into an obsession with butterflies and moths during his teens, when he traded specimens extensively with other amateurs, but it later provided the incentive for higher education. He received a B.Sc. in biology from Dalhousie University in 1950, and M.S. and Ph.D. degrees in systematic entomology from Cornell University in 1956 and 1967, while holding various curatorial, research, or



teaching posts at the Nova Scotia Museum from 1949 to 1963, and Peabody Museum of Natural History and Yale University Biology Department until 1969, with periodic absences for graduate study. He was privileged to work under John G. Franclemont at Cornell and Charles L. Remington at Yale; and he was succeeded in the Nova Scotia Museum curatorship by Barry Wright, thus assuring continuity for the collection left there. In 1969 Doug moved from Connecticut to his present position in Washington, and lives as close to the country as he can get in Montgomery County, Maryland.

He was married in Halifax in 1953, and his wife, Charlotte, has accompanied him to most Lepidopterists' Society meetings in recent years. They have two daughters, Stephanie and Caroline, one a graduate in horticulture and the other in electrical engineering. Neither wife nor daughters have any entomological inclinations, although they have gone along on many major field trips.

Doug's career was shaped less by design than by a series of fortuitous events, such as an encounter with J.H. McDunnough on a field trip in 1944 that subsequently led to a long association until McDunnough's death in 1962 (J. Lepid. Soc. 16: 215. 1962). A friendship with the late Laurence R. Rupert of Sardinia, New York, beginning around the same time, inspired his special interest in Geometridae. Rupert was a Cornell graduate in mathematics, not entomology, but was a moth-taxonomist in his spare time, and took Doug on a collecting trip to Martha's Vineyard, Massachusetts in 1947, after a visit in Nova Scotia the year before. Also, while at an impressionable age in the 1940's, he was visited, unannounced, by W. T. M. Forbes, whose ship from Boston to Europe happened to make a port call at Halifax. Forbes suggested that he should try applying for admission to Cornell, advice repeated by Forbes's successor, J. G. Franclemont, and eventually followed. Another chance meeting much later, with Richard B. Dominick in 1966, led to events that initiated The Moths of America North of Mexico project.

Dr. Ferguson is author or co-author of about 70 publications, including large works on Geometridae, Arctiidae, Lymantriidae, and Saturniidae, and a faunal account of the macrolepidoptera of Nova Scotia published in 1954. His first paper, in the Lepidopterists' News in 1950, was on Papilio brevicauda. He is now revising the geometrid genera Semiothisa and Itame, and has active interests in such diverse subjects as the classification of Arctiidae, the long-range, north-south migration of moths in eastern North America, and industrial melanism. He has remained a specialist on the North American fauna and has collected and field spread in the Franclemontian manner something of the order of 200,000

specimens; and he has reared 420 species, including 12 broods in 1986. He is a Charter Member of The Lepidopterists' Society and has served as a Member-at-large of the Executive Council, 1956-58, 1973-75; Chairman of the Nominating Committee, 1964, 1968, 1985; Jordan Medal Representative, 1980; and as an Associate Editor, 1978 to the present.



ARTOGEIA VIRGINIENSIS (PIERIDAE) IN SOUTHERN INDIANA

While driving through Clark County in southern Indiana late in the afternoon of April 1, 1986, I made a brief stop in Clark State Forest to look for early-flying specimens of *Falcapica midea*. Much to my surprise, what I found instead were two fresh male specimens of *Artogeia virginiensis* (W. H. Edwards). This is the first Indiana record for this species and appears to constitute part of an interesting extension of its known range.

The handbooks [Alexander B. Klots, *A Field Guide to the Butterflies* (Boston: Houghton Mifflin Company, 1951), pp. 201-202; William H. Howe, ed., *The Butterflies of North America* (Garden City, NY: Doubleday & Company, Inc., 1975), p. 380; Robert M. Pyle, *The Audubon Society Field Guide to North American Butterflies* (New York: Alfred A. Knopf, Inc., 1981), pp. 359-360.] characterize the range of *virginiensis* as extending from the northern Great Lakes region eastward through southern Canada and New York to southern New England and then southward through the Appalachians to northern Georgia. The 1971 Indiana checklist by Shull and Badger [Ernest M. Shull and F. Sidney Badger, "Annotated List of the Butterflies of Indiana, 1971" reprinted from *The Journal of the Lepidopterists' Society*, Vol. 26, No. 1 (21 March 1972), pp. 13-24.] does not list it even as a hypothetical possibility for the state. In the 1984 handbook by Opler and Krizek [Paul A. Opler and George O. Krizek, *Butterflies East of the Great Plains* (Baltimore: The John Hopkins University Press, 1984) p. 58.] a map showing the United States portion of the range has a separate dot indicating an isolated population in northern Kentucky, presumably reflecting the new record from Bullitt County south of Louisville reported by Covell in the *Lep News* 1981 season summary. [*News of the Lepidopterists' Society*, No. 2 (March/April 1982), p. 23.] The new location in Clark County, Indiana, about 15 miles north of Louisville, would be perhaps 25 to 35 miles north of the Kentucky location. Both are far from any other population area shown on the range map.

The Clark County site is located in a physiographic unit called the Norman Upland which has been described [Allan F. Schneider, "Physiography" in *Natural Features of Indiana*, Alton A. Lindsey, ed. (Indianapolis: Indiana Academy of Science, 1966), pp. 45-46, map p. 41.] as a dissected plateau having flat-topped hills, steep slopes, and V-shaped valleys. Smaller streams are said to have only the beginnings of floodplains, while larger streams have narrow, flat valley floors. The site is in the unglaciated portion of southern Indiana and within an area that is said to have been dominated by oak-hickory forests prior to European settlement. [R. O. Petty and M. T. Jackson, "Plant Communities" in *Natural Features of Indiana*, map p. 281.] The *virginiensis* specimens were found along a flat creek bottom with open woodland and light undergrowth. The only blooming wildflowers seen were widely scattered clumps of *Dentaria* (species not determined). These presumably serve as the larval foodplant for the *virginiensis* population. One specimen was nectaring on a *Dentaria* blossom when captured.

The discovery of these two populations of

virginiensis fairly close to one another, but far removed from other known populations, raises several interesting questions. Are these simply unconnected local colonies, or are they remnants of what was once a single interconnected population now split apart by agricultural development and a large urban area as well as by the Ohio River? And are there a great many other scattered local colonies still waiting to be found outside the previously-recognized species range? If so, are such colonies remnants of what was a more continuous population prior to deforestation, or are they ancient relict populations which may be indicators of distinctive local habitats that could be biologically significant in other respects? And have they escaped detection mostly because the species is very rare and local outside its main range, or have they remained undiscovered because the flight period of *virginiensis* is earlier in the year than the collecting season of many lepidopterists?

David L. Eiler
606 East Seventh Street
North Manchester, Indiana 46962

LISTING OF LEPIDOPTERA ORGANIZATIONS IN USA

GENERAL:

- Entomological Society of America
4603 Calvert Road, College Park, MD 20740
Publishes *The Bulletin of the Entomological Society of America*, *Annals*, *Journal of Economic Entomology* and *Environmental Entomology*
- The Lepidoptera Research Foundation
c/o Santa Barbara Museum of Natural History
2559 Puesta Del Sol Rd, Santa Barbara, CA 93105
Publishes *The Journal of Research on the Lepidoptera*
- The Lepidopterists' Society
c/o Secretary Dr. Richard A. Arnold
50 Cleaveland Rd, #3, Pleasant Hill, CA 94523
Publishes *The JOURNAL of the Lepidopterists' Society* and *The NEWS of the Lepidopterists' Society*.
- The Xerces Society
The International Organization for Invertebrate Habitat Conservation
10 Southwest Ash St, Portland, OR 97204
Publishes a newsletter *Wings* and the journal *Atala*.
- Young Entomologists' Society
c/o Dept of Entomology, Michigan State University
East Lansing, MI 48824
Publishes *Y.E.S. Quarterly*.

REGIONAL:

- Michigan Entomological Society
c/o Dept. of Entomology, Michigan State University,
Attn Mo Nielsen, East Lansing, MI 48824
Publishes *The Great Lakes Entomologist*, a NEWSLETTER and *Entomology Notes*.
- Ohio Lepidopterists
c/o Eric Metzler, 1241 Kildale Square North,
Columbus, Ohio 43229
Publishes the newsletter *The Ohio Lepidopterist*
- Society of Kentucky Lepidopterists
c/o Charles V. Covell Jr, Dept. of Biology,
University of Louisville, Louisville, Kentucky 40292
Publishes the newsletter *Kentucky Lepidopterist*.
- Southern Lepidopterists' Society
c/o Richard Gillmore, Editor, 35 S. Devon Ave.,
Winter Springs, Florida 32708
Publishes *Southern Lepidopterists' News* and *Southern Lepidopterists' Bulletin*.
- Utah Lepidopterists
c/o Sec/Treas Emily C. Dial, 3802 S. Sunnydale Dr,
Salt Lake City, Utah 84109
Publishes *Utahensis*.

Please advise the NEWS editor of any changes in this listing or of any omissions made. Information about Organizations outside the United States would also be welcome so that a listing of these could also be published.

ALTERNATE HOSTS FOR *HYALOPHORA COLUMBIA* (SATURNIIDAE)

To entomologists and especially those who specialize in Saturniidae the North American species *Hyalophora columbia* (S. I. Smith) may be an interesting species. Rearing the animal may be difficult at times because of its selectivity for larch, *Larix laricina* (DuRoi) K. Koch (Pinaceae) (Ferguson, D. C., 1972, The Moths of America North of Mexico, Fascicle 20.2B, Bombycoidea:Saturniidae (in part). E. W. Classey, London). Ferguson (p 252) further stated that *H. columbia* "is reported to have been reared once on chokecherry".

Under certain conditions in captivity *H. columbia* larvae may accept hosts other than larch. Not all individuals from all broods nor all broods from various regional populations will always accept alternate hosts. Adults resultant from larvae fed alternate hosts may or may not be undersized. Following is a list of alternate hosts for *H. columbia* known to me: pepper tree, *Schinus molle* L. (Anacardiaceae); Douglas-fir, *Pseudotsuga menziesii* (Mirb.) Franco (Pinaceae); Hawthorn, *Crataegus*

sp. (Rosaceae), other Rosaceae, pin cherry, *Prunus pensylvanica* Lf. and chokecherry, *P. virginiana*; weeping willow, *Salix babylonica* L. (Salicaceae), and other willows, *Salix* spp.

Stephen E. Stone
Aurora, Colorado

TWO HAIKU

CALIFORNIA DOGFACE

Violet reflections
over black velvet, golden orange:
pansy taken wing.

--Harriet Reinhard--



SWALLOWTAIL

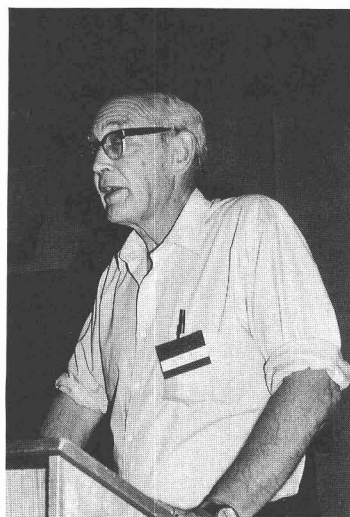
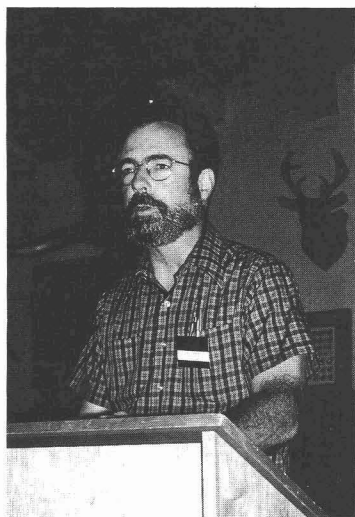
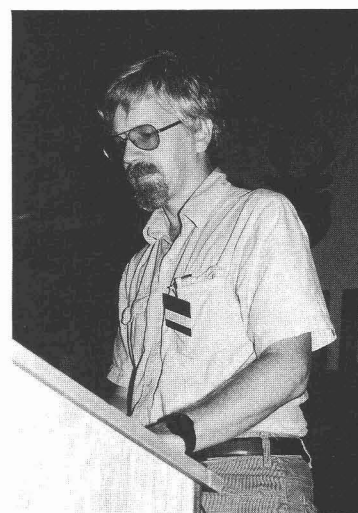
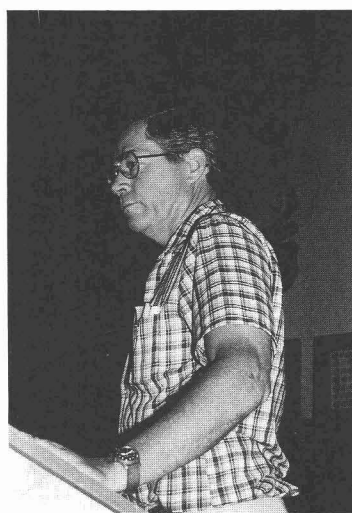
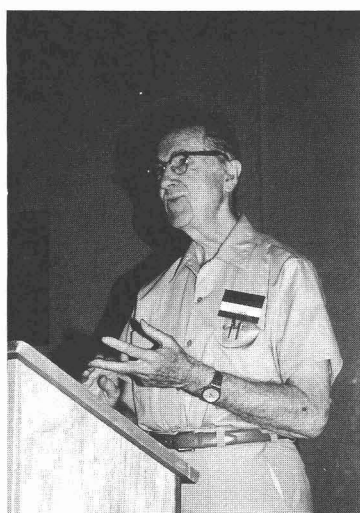
Hapless butterfly
gold wings bound like a mummy
in the spider's web.

--Harriet Reinhard--



ARIZONA

1986



FROM THE CAMERA OF TOM EMMEL

CANDID PHOTOS from the Pacific Slope Meeting at Coronado Ranch in the Chiricahua Mtns of SE Arizona. Top left: Dr John S. Garth, professor emeritus from the Univ. of Southern California and coauthor of *California Butterflies* (1986); Top center: Dr Jerry Powell of U.C. Berkeley; Top right: Dr Michael M. Collins of U.C. Davis; Lower left: Dr Ray Stanford of Denver, Colo; Lower center: Dr Benjamin H. Landing of Los Angeles; Lower right: Lake and physical setting at Coronado Ranch.

DUSTING BEHAVIOR IN COLIAS EURYTHEME

On 14. VIII. 1983 I observed a behavioral pattern by a male Colias eurytheme Boisduval 1852 new to my experience. As I am primarily a coleopterist it may be common butterfly behavior, but uncommon to me. The locality of these observations was Colorado: Eagle Co., White River National Forest, Frying Pan Valley 5.5 mi. E. of Basalt, about 7200 feet elev. While walking across a north facing mountainside on a powdery red dirt road (Coconino Sandstone in origin) which wound through abandoned alfalfa fields, I noticed what appeared to be an injured or dead C. eurytheme lying in the dirt. It was in a small depression with its wings flat on the ground. Before I reached to pick it up, slight wing movements indicated it was very much alive. It was facing west, with the expanse of wings receiving the mid-morning sun. About the distal one-fourth of the anterior wings were heavily covered with the fine, powdery dirt of the road. As I watched, the butterfly "pushed" its anterior wings slowly forwards and then jerked them back, keeping them flat on the ground. As strange as it sounds, it reminded me of a marine turtle excavating an oviposition site with its front flippers. With each backward stroke the butterfly created a mini-explosion of dirt and became progressively more covered. I believe it had thereby created the small depression it lay in. Convinced it was injured I touched it lightly on the thorax; it flew away immediately and strongly. A year later, on 20. VII. 1984, I observed the identical behavior in the same spot on the road, again by a vigorous and healthy male C. eurytheme. Frankly, I have no idea what the significance of this behavior is, whether it is common or simply uncommon to my experience. Is it some type of a thermoregulatory device?

Ronald M. Young, Systematics Research Collections
University of Nebraska State Museum
W436 Nebraska Hall, Lincoln, Nebraska, 68588-0514

TV WESTERN FANS TAKE NOTE

Lest we take common names too seriously, I submit the following cast of characters for a new Western (idea stolen from the Baltimore Sun a few years ago) as an alternative use of common names:

California White - owner of the Buckeye, biggest ranch in the valley
Virginia White - Cal's pretty, never-been-touched daughter
Becker White - Cal's quiet son, who lately has been hanging out with ...
Black Swallowtail - a ne'er-do-well long suspected of cattle rustling
Red Admiral - Cal's hard-working, straight-shooting foreman, whose suit for the hand of Virginia White seems destined for success, until she meets ...
Harris Checkerspot - new foreman over at the sawmill
Sara Orangetip - Cal's niece, who visits from the East and falls for Black Swallowtail
Yukon Blue } - local mountain men and trappers, who
Prairie Ringlet } serve as guides for ...
Monarch }
Viceroy } - British royalty come to hunt buffalo
Pearl Crescent - madame of the local red light hotel
Painted Ladies - Pearl's girls
Hoary Elfin } - itinerant cowboys and Pearl's best
Hermes Satyr } customers
Dakota Skipper }
Pawnee Skipper } halfbreeds and hellraisers, often seen
Coyote Skipper } at the Silverspot Bar
Fiery Skipper }
Milbert Tortoiseshell }
Edith Copper } local, God-fearing, townsfolk,
Nelson Hairstreak } frightened by the rapid changes in
Olive Hairstreak } their once quiet town
Ernest H. Williams
Clinton, New York

THE ZEBRA BUTTERFLY, HELICONIUS CHARITONIUS TAKEN AGAIN IN KANSAS

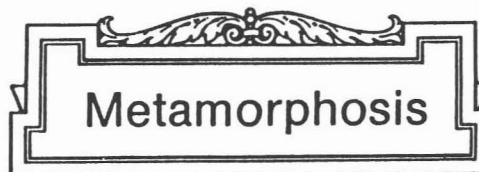
It was a pleasant July morning, about noon, temperature about 82°, a heavy rain had fallen two days ago. Continuous rains had kept lawns verdant and lush. I was in the front yard of our home tending to thirty or more hungry Pipevine Swallowtail larvae, Papilio (Battus) philenor Linnaeus, on the Pipevine (Aristolochia). Then I saw a truly incredulous sight. Entering our yard from the east (direction of Rock Creek) was, of all things, a Zebra Butterfly, Heliconius charitonius flying rapidly across our very wide lawn (about two blocks wide). The Zebra was being chased by a couple of hungry Blue Jays. I had my net handy (luckily) and proceeded to scare off the Blue Jays and dashed after the Zebra Butterfly in hot pursuit. I netted the butterfly and found it to be quite tattered and worn but it gave our lawn a strange aura that it should visit our area in this manner. It will be retained in the collection for all who wish to see the collected specimen and proof of capture.

This appears to be only the third authentic capture in Kansas. William DeWitt Field states that one capture was made by Virgil Calkins in Scott County (1932) "of a very worn specimen taken two days after a terrific wind and dust storm."

More recently, however, Mr. Edward Martinez reported the capture of one specimen on 14 July, 1966, in Barton County (others seen) and reported by Charles A. Ely, Marvin D. Schwillig, and Marvin E. Rolfs, in "An Annotated List of the Butterflies of Kansas," Fort Hays Science "Studies" No. 7, 1986.

My collected specimen was taken in Franklin County, Kansas, at noon, on July 13, 1986.

William H. Howe
Ottawa, Kansas



CYRIL F. DOS PASSOS.....

Cyril F. Dos Passos of Mendham, New Jersey, passed away on October 29, 1986, three months before his 100th birthday. He was a Charter Member and an honorary Life Member of the Society. A biography and bibliography will appear in a forthcoming issue of the JOURNAL.

HANS J. EPSTEIN.....

Word has been received of the death on October 17, 1986 of long-time member Hans J. Epstein of Ticino, Switzerland.

JOHN WILKIE.....

It was with great sadness that we learned of Society member John Wilkie's untimely death on June 28, 1986, just six days after returning from our collecting trip to Isle Royale National Park. John, of Wyandotte, Michigan, known to many mid-western lepidopterists by his incomparable photographs of butterflies in their natural habitat, was also a member of The Society of Kentucky Lepidopterists, The Ohio Lepidopterists and the Michigan Nature Association. Some of his photographs appeared in Pyle's "The Audubon Society Field Guide to North American Butterflies," and on the cover of the Audubon Society Magazine. We will surely miss his warm friendship and amazing photographic talents!

Submitted by M. C. Nielson

GEORGE W. RAWSON.....

Notice was received of the death of Dr. George W. Rawson of Washington, D.C. on October 8, 1986 at the Veterans Administration Hospital. He was 96. Any memorial contributions should be directed to the Dept. of Entomology, National Museum of Natural History, Washington, D.C. Dr. Rawson was a Charter Member of the Society although he became inactive in 1982.

DR. FRANCISCO FERNANDEZ YEPEZ.....

Word has been received of the sudden death from a heart attack on August 16, 1986 of Dr. Francisco Fernandez Yopez in Maracay, Venezuela. Although not a member of the Society, Dr. Fernandez Yopez was one of the leading lepidopterists and general entomologists in northern South America, and had been professor and chairman of Zoology at the Universidad Central de Venezuela in Maracay for many years. Over 50 of our Lepidopterists' Society Members had the opportunity to travel with him in Venezuela in June 1984 when we had a major lepidopterist expedition visit at Rancho Grande near Maracay and other sites in southern Venezuela. Numerous other members of the Society had corresponded with him and worked through him to arrange collecting trips to Venezuela. Messages for his family can be sent to the following address: Familia Fernandez Yopez, Apartado 308, Maracay 2101-A, Venezuela.

Information from Thomas C. Emmel

MALCOMB BARCANT.....

It has been learned that former Society member Malcomb Barcant passed away at his home in Lakeland, Florida some time ago. He will best be remembered for his book Butterflies of Trinidad and Tobago.

From The Editor's Desk

June Preslan



Some of you may notice an ad concerning an exchange of Euproserpinus wiesti in the Market Place of this issue and have concerns about an endangered species being advertised. E. wiesti is no longer considered to be endangered, and I quote from a letter written July 2, 1986 by Frank Dunkle, Director of the Fish and Wildlife Service to Mr Les Line, Editor of Audubon magazine.

"It now seems that the representation of the species as confined to a single site in Colorado and faced with imminent destruction was based on incomplete understanding of its range and distribution. A survey in the spring of this year has established that the species is alive and well and living in Colorado, New Mexico and Texas. There is also reason to believe that it occurs in Oklahoma and that it may be present in Arizona, Montana, and Nebraska. Habitat suitable for the moth's survival appears to be in good supply and to face no appreciable threat of loss.

"While it is gratifying to be able to report that Euproserpinus wiesti is not endangered, this does not minimize the fact that over 3,000 other species of native fauna and flora in the United States are still candidates for listing under the Endangered Species Act. The evaluation of these species, and the listing of those that do require it, continues to be a high priority of the U.S. Fish and Wildlife Service."

An update of the Endangered Species Listings appears in the Notices section of this issue. The following letters cite some interesting observations by Society members.

Dear June:

Sometime ago I collected a female Speyeria diana on July 19th, and after keeping it for 2 weeks it began to oviposit. Oviposition continued until the butterfly died some 3 weeks later. She deposited a total of 1050 eggs. At the time I thought this was spectacular for a Speyeria; however, I feel now that this is probably normal, and that these butterflies have the potential of ovipositing well over 1000 eggs. Last year I collected a female Speyeria idalia on August 5th which may have been ovipositing when collected. At any rate, she did not oviposit in captivity until the 20th of August. By the 3rd of September (14 days later) she had deposited 1079 eggs and when she died on September 9 she had laid a total of 1441 eggs. Upon examination, the butterfly still had 70 some ova in its reproductive tract. Considering the random ovipositing behavior in nature by S. idalia and the high mortality of larvae in S. diana during winter these species probably need to be prolific in order to survive.

Thomas J. Allen

Dear June,

I was interested in the short article by Oakley Shields [JOURNAL of the Lep. Soc., Vol 39, No. 4, pp 340-341] about the Flower Visitation Records for Snout Butterflies. The only time I ever saw snout butterflies, they were visiting a species of flower that Mr. Shields did not even mention: WINGED SUMACH (Rhus copallina). It was during a visit to Cape May Co that I saw them on August 27, 1975. They were visiting the leaves of hackberry and the blossoms of the winged sumach. Other butterflies in the area included question marks, tawny emperors, hackberry butterflies, a buckeye, a little sulphur and a red-banded hairstreak. I decided I should mention this to add to the record.

Robert May
W. Caldwell, New Jersey

Dear June:

I was going to head this "The Odd Couple" but maybe it is copyrighted as the TV program, although I don't think anyone would question us. Anyhow, the picture enclosed was taken by me 7/27/86 showing the mating of a male Eacles imperialis and a female Citheronia regalis. It was taken at Kate and Harold Hartman's breeding cage in Elkhart, Indiana. They are members of our Society and rear many species.

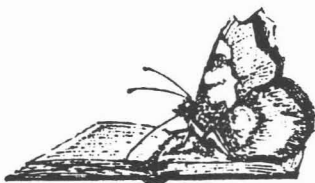


They have a breeding cage of substantial size made of nylon netting for two reasons. First, the two species mentioned will normally not mate in close quarters, and second, they hope to attract wild males for their reared females to avoid inbreeding. When I took the picture, there were E. imperialis females available in the cage. Why did the male copulate with the C. regalis female??? The resulting eggs were infertile.

There was another case of a *C. regalis* male mating with an *E. imperialis* female, but she must have already been fertilized by an *E. imperialis* male, because the resulting eggs were *E. imperialis*. Previously I have seen pictures of different species copulating, and I thought maybe they were phony. Now I am a believer. Odd things do happen in Nature.

Ray W. Bracher

Books



NEW BOOK

BUTTERFLY FAUNA IN THE KENTING NATIONAL PARK (TAIWAN) Full color book (153 x 210 mm), 180 pages (165 pages with full color original photos). Life activity of a variety of colorful tropical butterflies that inhabit the Kenting area, the southern part of the island, are captured with close-up photography, in their natural beauty and grace, superbly reproduced in a compact format. (Text in Chinese, scientific names given each butterfly). A majority of the work is accompanied by life-cycle photography (ova, larvae, pupae, adult, also larval food-plants where known), in their natural setting. Price: \$11.85 a copy - C&F seairmail; \$15.50 a copy - C&F airmail. S. K. ONG: Box 2, SIMPEITOU, TAIWAN 112, R.O.C.

BOOK REVIEWS

The Butterflies of North America: A Natural History and Field Guide, by James A. Scott. Stanford University Press, 1986. Contains 583 pgs, 64 color plates and 674 text figures. \$49.50. This long awaited large volume has fine quality printing and sharp line drawings and contains small range maps for all species discussed. The color plates are good, showing some of the early stages as well as adult butterflies and including photos of live butterflies as well as formal arrays of pinned specimens, many with one pair of wings removed. The text is divided into 3 parts. Part I: Biology and Ecology covers general information, including sections on scientific and common names, mechanism of flight, metamorphosis, diapause, physiology and reproduction, larval and adult foods, mimicry, parasites, predators and other enemies, habitats and life zones, etc., ending with a section on the history and future of butterfly study. Part II: Identification of Eggs, Larvae, Pupae and Adults indicates how identifications can be made and includes keys to first stage North American larvae, mature North American larvae, North American pupae and Worldwide adult butterflies to the subfamily level. Part III: The Butterflies provides detailed information on identification, distribution, ecology and behavior for butterfly species from the United States and Canada and contains a wealth of information, which part comprises the bulk of the book. The appendices include lists of butterflies from Iceland, Greenland, Bermuda and Hawaii plus information on collecting, papering and spreading butterflies and on raising them, marking them and dissecting genitalia, and includes a bibliography and host plant catalogue plus a glossary. The book is also well indexed. It can be ordered from Stanford University Press, Stanford, California 94305 for the above price plus about \$2.00 shipping charge per book in the USA. Although Scott has lumped subspecies in many genera he has included much new material in many cases and this book will be a useful reference in any Lepidopterists' Library.

June Preston, Ed.

California Butterflies by John S. Garth and J. W. Tilden. University of California Press, 1986. There are 272 pages, including 24 plate pages in a 5½" x 8½" handbook size. \$19.95 hardcover or \$10.95 paperback. This handy little volume, #51 of the California Natural Historical Guides, is divided into 4 chapters entitled Structure, Behavior and Distribution; Observing and Collecting Butterflies; Butterfly Identification; and California Butterflies: Species Accounts. A checklist of California butterflies is included plus a glossary and bibliography. The butterflies are indexed separately from the General Index which includes food plants. Both common and scientific names are used. The butterfly illustrations by David Mooney are clear and fairly accurate, assisting in easy identifications, while black and white text illustrations by Gene M. Christman add to the book. In the Species Accounts chapter, ranges of the various species and subspecies are given; type localities are indicated for some subspecies. Flight periods and larval food plants are given for each species along with early stage information where known. This latter chapter occupies most of the text, is easily read and treats subspecies in some detail. This is a book that anyone should have who is interested in California butterflies.

June Preston, Ed.

Notices



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 there of, 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

BORNEO, ANYONE?

French entomologist Guy F. Vindevoghel is organizing a butterfly and moth collecting trip to the state of Sabah in Borneo (Malaysia) from March 22 to April 10, 1987. The trip will include English/French translators and entomological guides. The group is to leave from Paris, France. Portable electric plants will be available for black-lighting. Space is limited to 20 persons. Write for costs and detailed plans to Guy F. Vindevoghel, 7 rue de l'Alboni-75016 Paris, France. Telephone 46 57 1117, poste 381 (between 10 a.m. till noon or 2 to 5 p.m.)

SPECIAL MEMBERSHIP SURVEY

A random sample of 400 active members of the LEPIDOPTERISTS' SOCIETY have received a brief questionnaire along with their 1987 dues notice and ballot. This survey was prepared to solicit member's opinions about several issues under consideration by the Executive Council. Please take a few minutes to complete the survey and return it to one of the addresses printed on the questionnaire. Your responses will greatly assist the Executive Council in evaluating future policies on these issues for our society.

THOSE NOT RECEIVING MEMBERSHIP SURVEY

If you have not received a membership survey (1 out of 4 have), please let the NEWS Editor know if you want: (1) paid advertising in the NEWS and JOURNAL; (2) advertising for entomological books and/or supplies; (3) automobile rentals, group insurance and society jewelry. Also please indicate how many Annual Meetings you have attended. Please respond to the Editor as soon as possible. Thank you.

NEW REGULATIONS FOR MEXICAN COLLECTING

MEXICO now has new and strict regulations concerning research (including collecting). All such activity must be processed through diplomatic channels "from the researcher's government and embassy to the Secretariat of Foreign Relations (SRE) in Mexico City." Some six months is required to process necessary permits, if approved. An 11 page outline for researchers from the United States is available from: Herb Raffaele, Office of International Affairs, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

ICZN

The following opinion, ruling of the International Commission on Zoological Nomenclature, has been published in Volume 43, part 3 of the Bulletin of Zoological Nomenclature (6 October, 1986).

Opinion

No.

- 1406 Phalaena stagnata Donovan, 1806 designated as type species of Nymphula Schrank, 1802 (Insecta, Lepidoptera)

BACK-ISSUES: PRESENT PROCEDURE

PRICE LIST OF PUBLICATIONS (revised Sept. 86)

JOURNAL (Vols. 1-12 titled LEPIDOPTERISTS' NEWS)
(see separate Inventory for availability)

Volume No.	Price Per Volume	Price per Issue
1 (reprint)	\$15	not sold separately
2-5	\$10	not sold separately
6-12	---	\$3
13-34	\$16	\$5
35-38	\$20	\$6
39-	\$25	\$7

NOTE:

- Journal Supplements are extra, at \$4 each.
- Vol. 34, No. 2 (Clench Memorial Issue) when ordered separately is \$8.
- When issues of a volume are not available, pro-rate the cost of those remaining; thus, a volume with one missing issue would cost 3/4 of the normal volume price.

NEWS of The Lepidopterists's Society (see separate Inventory for availability) \$2 per issue, except for 1984, Issue #6 (Membership Directory), which is \$5.00.

MEMOIR NO. 2: A CATALOGUE/CHECKLIST OF THE BUTTERFLIES OF AMERICA NORTH OF MEXICO, by Lee D. Miller and F. Martin Brown. 1981. vii + 280 pages.

Clothbound (ISBN 0-930282-02-7): \$17.00

(Member/Subscriber Price: \$10)

Paperbound (ISBN 0-930282-03-5): \$8.50

(Member/Subscriber Price: \$5)

COMMEMORATIVE VOLUME: 1945-1973: (the first quarter century of the Society, featuring historical sketches, biographies, and a 25-year index to the JOURNAL). 1977. xvii + 374 pages.

Clothbound (ISBN 0-930282-01-9): \$10

(Member/Subscriber Price: \$6)

INVENTORY OF BACK ISSUES AVAILABLE

revised September 1986

(see above for current prices)

LEPIDOPTERISTS' NEWS (renamed JOURNAL OF THE LEPID. SOC. with Vol. 13)

1947	Vol. 1:	(reprint of original).
1948	Vol. 2:	1, 2, 3, 4, 5, 6, 7, 8, 9.
1949	Vol. 3:	1, 2, 3, 4-5.
1950	Vol. 4:	1-2, 3, 4-5, 8-9.
1951	Vol. 5:	1-2, 3-5, 6-7, 8.
1952	Vol. 6:	1-3.
1953	Vol. 7:	5-6.
1954	Vol. 8:	1-2, 3-4, 5, 6.
1955	Vol. 9:	4-5, 6.
1956	Vol. 10:	3-4, 5, 6.
1957	Vol. 11:	1-3, 4-5, 6.
1958	Vol. 12:	3-4, 5-6.

JOURNAL of The Lepidopterists' Society: began with Vol. 13 (1959), 4 issues per year, plus 3 Supplements to Vol. 23 (1969), 3 Supplements to Vol. 25 (1971), and 1 Supplement to Vol. 33 (1979). ALL issues of the JOURNAL are available EXCEPT THE FOLLOWING:

Vol. 14 (1960):	Number 2.
Vol. 18 (1964):	Numbers 1, 2.
Vol. 19 (1965):	Numbers 1, 2.
Vol. 21 (1967):	Number 1.
Vol. 23 (1969):	Number 3.
Vol. 24 (1970):	Numbers 1, 2, 3.
Vol. 25 (1971):	Number 1.
Vol. 27 (1973):	Number 2.

NEWS of The Lepidopterists' Society: an informal bimonthly publication initiated in 1959. The following issues are available:

1962:	No. 3 (Season Summary)
1965:	Nos. 1, 5.
1969:	Nos. 1, 2, 6.
1972:	Nos. 4 (Membership List), 5, 6.
1973:	Nos. 2-6.
1974:	Nos. 2, 3, 5, 6.
1975:	Nos. 1, 2/3, 4, 6.
1976:	Nos. 1, 4.
1977:	Nos. 2, 5, 6.
1978:	Nos. 2, 5 (Membership List), 6.
1979:	Nos. 2, 3, 5.
1980:	Nos. 1, 2, 4, 5.
1981:	Nos. 2-6.
1982:	Nos. 1-6 (complete) [#6 is Memb Directory].
1983:	Nos. 1-6 (complete).
1984:	Nos. 1-6 (complete) [#6 is Memb Directory].
1985:	Nos. 1-6.

TO ORDER: Send list of volumes desired, together with check or money order for the full amount, payable to The Lepidopterists Society, in U.S. Funds drawn on a U.S. bank, TO: Ron Leuschner, 1900 John Street, Manhattan Beach, California 90266, U.S.A. Prices quoted above include postage anywhere in the world via surface mail (printed matter rate).

ENDANGERED SPECIES STATUS UPDATE

In NEWS #3, 1985 on pg 47, a listing of lepidoptera for consideration as threatened or endangered species was printed, taken from the Federal Register for May 22, 1984. Here is some more information to add to that previously published, concerning the status of lepidoptera.

Listed Species: Papilio aristodemus ponceanus - Endangered; Incisalia mossii bayensis - Endangered; Apodemia mormo langel - Endangered; Plebejus icarioides missionensis - Endangered; Lycaides idas lotis - Endangered; Euphilotes battoides allyni - Endangered; Euphilotes enoptes smithi - Endangered; Glaucopsyche lygdamus palosverdesensis - Endangered; Speyeria zerene hippolyta - Threatened; Euproserpinus euterpe - Endangered.

Regulations: Members may contact their nearest Endangered Species Program office for a list of the regulations that apply. Generally, it is against the law to capture, to possess, or to engage in commercial activity with any listed species. Specimens caught before the listing date are not affected but one may have to prove they were caught by that date. Also note that Papilio aristodemus ponceanus has been reclassified from Threatened to Endangered and collecting of adults is no longer permitted.

Proposed Species: The only Lepidoptera presently proposed for listing are Hesperia leonardus montana (proposed Threatened) and Euphydryas editha bayensis (proposed Endangered). Listings will probably take place for these species in the near future.

Notice of Review: The Fish and Wildlife Service, which administers the Endangered Species Act, published a Notice of Review on North American invertebrate animals which was published in NEWS #3, 1985, as mentioned above. Please review that list and determine if you have any information that indicates species are listed in the wrong category or if you have information that shows another species should be added to the list. The Service will publish a revision of this list and is anxious to receive any new information. Please send the information to the regional office where the species occur. These offices are listed in NEWS #3, 1985 on pg 48.

Other Laws: The above does not relate to the Convention on International Trade in Endangered Species of Fauna and Flora or to state or local regulations. Parnassius apollo and all Ornithoptera (broad sense) are listed under the CITES Convention. These species may not be imported into the United States (or other CITES countries) for commercial purposes without an export permit from the country of origin (where the species is native--not a resale country). Members should not purchase specimens of these groups without evidence of the proper import permit. Several states have their own endangered species laws that include regulations in addition to the Federal law or that list species not protected under the Act. Permits should always be obtained for collecting in National Parks, National Wildlife Refuges, State Parks in many states, and even some local parks. Permits are not required to collect in National Forests. Cooperation with park or refuge biologists will almost always pay dividends.

For More Information: Write the appropriate regional Endangered Species office. Also ask that you be placed on a list of persons available to comment on proposed regulations.

Paul A. Opler
Office of Information Transfer
U.S. Fish and Wildlife Service
1025 Pennock Place
Fort Collins, CO 80524

JOURNAL UPDATE

The next issue of the JOURNAL of the Lepidopterists' Society, Volume 40, #3, should be mailed sometime in January or February 1987. Volume 40, #4 should follow about a month later.

DATA DESIRED

Paul Opler has begun a revision of Klots' classic field guide of eastern North American butterflies--all species east of the 100th Meridian will be included. If any member has significant range extensions or other new records to be included, they will be welcomed. 5100 Greenview Ct., Ft. Collins, CO 80525.



Research Notices

● For Butterflies of Europe, under Libythea celtis, I desire literature not listed in Kudrna, volume 1, for Europe (W. Palearctic). Also need locality and date data, specimens in trade, larval foodplant information (other than Celtis australis); behavior, migration, and hibernation information, etc. Oakley Shields, 8490 Old Highway, Mariposa, California 95338, U.S.A.

● WANTED: Live, overwintering eggs of Lepidoptera (all families) from the eastern United States, to be used for rearing and photography of immature stages as part of the production of a pictorial work on caterpillars. Please write for further information: John E. Rawlins, Invertebrate Zoology, The Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15213.

The Market Place

Buy • Sell • Exchange • Wants



BUY - SELL - EXCHANGE: POLICY STATEMENT....

At the Executive Council meeting in Fairbanks in June 1979 it was decided that the policy regarding placement of members' notices in the NEWS should be determined by the Editor, in keeping with the purposes of the Society as outlined in the Constitution, i.e.: "... to promote the science of lepidopterology; ... to facilitate the exchange of specimens and ideas by both the professional worker and the amateur in the field, ..." (Article II). Commerce in lepidoptera is not a stated objective.

Therefore, it will be our policy to print notices which seem to meet the above criteria, just as in the past, without quoting prices (except for those of publications or lists). Notices which seem by their listing of oferta/desiderata, or by an organizational title, to be commercial in nature, will be entered in a separate section as "commercial notices", listing only name, address, and a brief indication as to material offered/desired. No mention may be made in these notices of any species on any threatened or endangered species list. This will include all Ornithopterans now and for the foreseeable future.

Only members in good standing may place ads. Ads will be printed only once unless entry in two (maximum) successive issues is requested. A maximum of 100 words is allowed. S.A.S.E. 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: Papired Wisconsin Sphingids, Catocala and Apantesis. SASE for list. George F. Holbach, Route 1, Adell, WI 53001.

- WANTED: Burns (1964), "Evolution of Skipper Butterflies in the Genus *Erynnis*", MacNeil (1964), "The Skippers of the Genus *Hesperia* in Western North America...", Lindsey (1921), "Hesperioidea of America North of Mexico" and PART I ONLY of Evans (1951), "A Catalogue of the American Hesperioidea". John V. Calhoun, 6332 C Ambleside Dr., Columbus, OH, 43229.
- FOR SALE OR EXCHANGE: Live pupae of *Papilio oregonius oregonius*, also papered *Parnassius acedestis laurentii* & *P. nomion nominulus*. Helmut P. Kimmich, 3372 Mahon Ave, North Vancouver, B.C., Canada, V7N 3T6
- WANTED: To trade butterfly specimens with individuals from the Western U.S. and Canada. Will trade eastern species for species from your local area. Offerta list available. Also FOR EXCHANGE: Have a few A-1 pairs of *Speyeria diana*, *S. idalia*, and *S. coerulea*. Will trade for other rare U.S. butterflies. Am especially interested in *Papilio joanae*, *P. anchisiades*, *P. kahli*, *P. machaon hudsonianus* or *aliaska* as well as other species. Send offers. Tom Allen P.O. Box 132, Elkins, WV 26241
- FOR SALE: "Journal of Res. on the Lep," Vol 1-17 inc. and "JOURNAL" of the Lep Soc Vol 15-39 inc. Best offer. ALSO, XERCES BLUE; Will sell or exchange for extra choice N. Am. or exotics. Best offer. John M. Snider, 3520 Muldree Ave, San Pedro, CA 90732.
- WANTED: The following books and publications are desired. Butterflies of the West Coast by W. G. Wright; On the Sphingidae of Peru by A. M. Moss; The Cranbidae of North America by C. H. Fernald; Butterflies of Cuba by D. Marston Bates; Monograph of the Genus *Erebia* by B.C.S. Warren; State price and condition. FOR SALE: One copy, in good condition, of The Bombycine Moths of North America by A.S. Packard, Part II, Vol. IX. Best offer. Also FOR SALE: Lepidoptera Bait Traps, Light Traps and Rearing Sleeves. For more information and prices, contact Leroy C. Koehn, 16225 Huntley Rd, Huntsburg, Ohio 44046.
- FOR SALE (or exchange for Arctic Palearctic butterflies); surplus specimens of choice species of butterflies from the Northwest Territories, Yukon Territory, and the Seward Peninsula of Alaska. Especially interested in *Oeneis aello*, *elwesii*, *hora*, *mulla*, *polixenes*, and *norna*. Write for list, Jim Troubridge, RR1 Cayuga, Ontario, Canada, N0A 1E0.
- FOR SALE: New Professional Quality, very compact, 12"x12"x18.5" 175 watt MV light trap, complete outfit, trap, ballast box, cord, legs, bulb, reasonably priced. Carrying case and collecting chamber also available plus numerous other proven designs and sizes from 60 to 2220 watts. Bus. size SASE. V.A. Brou, 137 Jack Loyd Rd., Abita Springs, La. 70420, Ph:(504) 892-8732.
- FOR SALE OR EXCHANGE: Papered Moths & Butterflies of FRENCH Countries and also FRENCH GUYANA & AFRICA (Also available now: *Coleoptera Diceranorrhina oberthurii*) - WANTED: Live cocoons and Live pupae from North and South America - J.M. GUERINEAU "MUSEE DES PAPILLONS" Foret de Chize 79360 BEAUVOIR SUR NIORT FRANCE
- FOR SALE OR EXCHANGE: *Poanes massasoit chermocki*, *Celastrina ebenina*, *Anthocharis midea midea* (ex - S.C.), *Junonia coenia* form "rosa", other Eastern U.S. butterflies, skippers. SASE please. Harry Pavulaan, 1919 N. Daniel St., #201, Arlington, VA 22201
- WANTED: Viable *columbia* cocoons, female and male, to complete slides on life history of Saturniidae moths of North America, Dr. Gardiner E. Gregory, Star Route Box 259, Orland, Maine 04472
- FOR SALE: Live pupae of *Eurytides marcellus*. Hand paired, ex-ova. Available in quantity, in season or diapause. John Tewell, RR2 Box 304AAA, Pittsburg, KS 66762 USA.
- WANTED: Copy of D'Abnera's "Butterflies of the Australian Region" Vol. 1. Will buy. Bob Gondek, 11164 Marsha Place, Warren, Michigan 48089.
- EXCHANGE: Butterflies & moths from North & South America for Satyridae & Pieridae from Europe & Asia. R. Rahn, 3205 W. Rochelle Rd., Irving, TX 75062, USA.
- FOR EXCHANGE: Wish to enhance small university's Lepidoptera collection by exchange with North American institutions of similar nature or with individuals, outside the Southeast U.S. Can provide specimens from South Carolina Piedmont and Appalachian regions. John Snyder, Dept. of Biology, Furman University, Greenville, SC 29613.
- FOR EXCHANGE OR SALE: Bolivia Lucanidae. New Species *Sphenognathus furumii* n.sp. ♂ very rare. Quality is perfect and sell or exchange. Wanted rare Lucanidae, rare Dynastinae, African *Pycnoschema*, *Dynoryctes*, *Cyphonistes*, *Xenodorus*. South American *Antodon*, *Agaocephala*, *Brachysiderus*, *Aegopsis*. yoshiaki FURUMI 97-71 komizo, Iwatsuki-SHI, Saitama-KEN, 339 Japan.
- FOR SALE: Good quality cocoons (and papered adults) of *A. luna*, *A. io*, *C. promethea* and *S. cynthia*. SASE for prices. Larry J. Kopp, R.D. Box 30, Klingerstown, PA 17941.
- FOR EXCHANGE / SALE: Midwest *Catocala*, ova and papered. Want all U.S. *Catocala*, ova and adults, or N.A. *Papilionidae*. John Jordison, 414 North 61st St., Omaha, Nebraska 68132.
- BOOK WANTED: Rothschild and Jordan, 1903. "A revision of the lepidopterous family Sphingidae." *Novitates Zoologicae* 2. Linda Fink, Department of Zoology, University of Florida, Gainesville, FL 32611. Work phone (904) 392-1107.
- WANTED: Excellent to new condition copy of *An Arizona Flora*, 1960 (revised edition with supplement), Kearney, Thomas H. et al. University of California Press, Berkeley, Calif. Steve Stone, 18102 East Oxford Drive, Aurora, Colorado 80013.
- FOR SALE: Professional Custom Made Portable Light traps, any conceivable wattage. Bus. size SASE for details. V. A. Brou, 137 Jack Loyd Rd. Abita Springs, La. 70420 Phone (504) 892-8732.
- FOR TRADE: Cocoons of *H. columbiana* or *H. gloveri* x *H. cecropia* hybrids for North American sphinx moths or butterflies. Send lists of available material to Hal Donly, 63 Lionel Heights Cres, Don Mills, Ontario, Canada, M3A 1L8.
- FOR SALE: The following pupae in large and small quantities - *Papilio glaucus*, *Philosamia cynthia*, *Actias luna*, *Hyloicus drupiferarum*, *H. kalmiae*, *Smerinthus jamaicensis*, *Lepara bombycoides*. Send SASE for prices. William Houtz, Route 4, Box 477, Pine Grove, PA 17963
- FOR SALE: JOURNAL of the Lepidopterists' Society, Volumes 20-39 (1966-1985). Best offer. Bill Wright, 18 Clinton Place, Woodcliff, New Jersey 07675
- FOR SALE or EXCHANGE: Cocoons and Pupae of *P. troilus*, *Pieris virginiensis*, *A. io*, *C. angulifera*, *C. juglandis*, *A. rubricunda*, *P. modesta*, *S. chersis*; *Calocala* ova of *cara*, *relicta*, *refecta*, *cerogama*, *habilis*, *vidua*, *piatrix* and a few others. Reared A+ papered *P. polyxenes asterius* ♀ x *P. bairdii* fm *brucei* ♂ - ♂ only; *P. ruckini* ♀ x *P. polyxenes asterius* ♂ - ♂. WANTED, Butterflies, *Catocala*, Sphinx from Mid western and Western US and Canada. Ova, papered or pupae. Will trade same from my area or buy. Frank Bodnar Box 52, Spring Church, PA 15686
- FOR SALE: *Hemileuca hera magnifica* [papered] I will not have ova or cocoons of Southwestern moths this year (1987) Sorry. SASE. Jim Coleman, 5812 Leta Rd. N.E., Albuquerque, New Mexico, 87107 U.S.A.
- FOR SALE OR TRADE: Cocoons of *A. polyphemus*, *S. cynthia* and *H. cecropia*. FOR SALE: 1987 ova of *C. angulifera*, *H. cecropia*, *A. luna*, *S. cynthia*, *P. modesta*, *D. inscripta*, and other eastern moths (USA). Papered Lepidoptera and Coleoptera of PA., USA. WANTED - Exchange of beetles from the eastern USA for the coleoptera in your geographical region. Offers and inquiries invited. SASE Jeff Frey 364 Oaklyn Road, Lebanon, PA. 17042.
- WANTED: To buy--pupae and/or eggs of *Euploea* or *Amauris*, preferably *E. core* and *A. ochlea*, for rearing. Please send available quantity and price. Write to Mary D. Cohen, Museum of Science, Humboldt Rkwy., Buffalo, NY 14211, USA.

WANTED: The following Oeneis: O. jutta terraenovae, O. jutta ridgiana, O. jutta chermocki, O. nevadensis gigas, O. chryxus valerata, O. uhleri nahanni, O. bore (taygete) taygete, O. polixenes peartiae, O. melissa melissa, and any European or Asiatic Oeneis. Also any other Oeneis subspecies from specific areas. In exchange can offer many Arctic/Alpine and Western N. American Oeneis as well as many other choice taxa, all material A+ perfect condition with full data. Tom W. Kral, P.O. Box 349, Necedah, WI 54646.

FOR SALE: Polygonia gracilis in A1 quality. Send SASE to: Henry Hensel, 145 Bellevue Str., Edmundston, N.B. Canada E3V 2E2.

WANTED: Living chrysalids of Heraclides (Papilio) cressphontes and Eurytides (Graphium) marcellus. Please advise of availability and price. Ray W. Bracher, 17145 Cherokee Drive, South Bend, IN 46635.

FOR SALE: Large C. regalis pupae. A SASE appreciated. Catherine Hartman, 25903 CR24W, Elkhart, IN 46517.

FOR EXCHANGE: Two pair of mint condition Euprosperpinus wiesti. What am I offered? I am interested in getting E. gaurae, E. vega, E. terlooii and E. flavofasciata, but will consider other rare species of leps. D. E. Bowman, 1602 Ulysses St, Golden, Colo 80401.

WANTED: Copies of the REVISTA of the Sociedad Mexicana de Lepidopterologia from about Vol. III up to the present volumes. Will buy or exchange literature or specimens for same. Eduardo C. Welling M., Apartado Postal 701, Merida, Yucatan, Mexico.

MEMBERS COMMERCIAL NOTICES.....

JOEL MILLER, P.O. Box 504, West Side Station, Worcester, Mass 01602, U.S.A. FOR SALE: Butterflies from Indonesian Islands. Specializing in Bali butterflies. Also butterflies from Sumatra, Sulawesi, Buru, Ceram, Bachan, Irian Jaya, Waigeo and other islands. Papilios and Delias my speciality. All quality specimens are papered with data. Send SASE for 1986 price list.

CHANG PI-TZU, P.O. Box 873 Taipei, Taiwan 10099, Repub. of China. Papered Formosan Lepidoptera, Coleoptera and other Formosan insects, live eggs and cocoons of Attacus atlas and sexual mosaics and color aberrations of Formosan Lepidoptera for sale.

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. Send SASE for species list and prices. Both eastern and western U.S. species.

THE ASSOCIATED BUTTERFLY GROUP LTD., Central Purchasing Division, Marine Parade, Great Yarmouth, Norfolk NR30 3AH, UNITED KINGDOM, Tele. 0493 842202. Telex 8951182 GECOMS G. The central purchasing division of this international group of Butterfly Center/Exhibitions is seeking to purchase large or small quantities of living butterfly and moth pupae, from anywhere in the world. Please contact Mr S.A. Raine at the above address, with details of stock available, and price per pupae. All replies answered.

LONDON PUPAE SUPPLIES, Dick Burgess, Castleleigh, London Rd, Enfield, Middx. EN2 6JF, ENGLAND. URGENTLY REQUIRED: Contact with butterfly breeders throughout the world especially those breeding Caligo and Morpho species, and with suppliers of LIVE Jungle insects e.g. Beetles, Stick Insects etc. We also have Butterfly and Moth pupae from around the world for sale or exchange.

KEN THORNE. P.O. Box 684, Lambeth, Ontario N0L 1S0 CANADA Telephone (519) 652-6696. Fine quality lepidoptera and coleoptera from around the world. Many hard to get species. Specializing in world Papilio, Morpho and North American Arctic species, but have most families. I have items for the specialist and generalist. Send \$1.00 for lists to pay postage.

MIGUEL SERRANO TROPICAL BUTTERFLIES 6823 Rosemary Drive, Tampa, Florida, 33625, U.S.A. Specializing in rare and bred material from Central and South America. Send for our extensive list all families especially Papilionidae and Ithomiidae.

INSECTS, div. Combined Scientific, P.O. Box 1446, Ft. Davis, Texas, USA, 79734. Phone: (915) 426-3851. Please write for your free copy of our new 212 page Insect catalog. It contains almost 7,000 items in 470 families from every major geographical region of the world. Note; we are interested in purchasing many and various insect specimens.

THOMAS GREAGER, R.D. #6 Box 56-B, Greensburg, Pennsylvania 15601. Worldwide Lepidoptera for sale, also some Coleoptera. Top quality papered specimens with complete data. Good prices. Satisfaction guaranteed. ALSO FOR SALE: Elephant Insect Pins and the books "The Illustrated Encyclopedia of the Butterfly World" by Smart and "Butterflies of the World" by Lewis. Send \$1.00 and legal size SASE to receive price list. Your dollar refunded on first order.

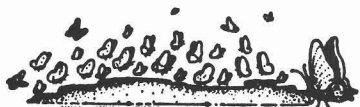
TOP DRAWER ENTOMOLOGICAL STORAGE EQUIPMENT COMPANY, 6524 Stoneman Drive, North Highlands, CA. 95660 USA. phone: (916) 344-1626. MANUFACTURERS OF CALIFORNIA ACADEMY AND CORNELL INSECT STORAGE DRAWERS. Superior quality. Very competitive prices - quantity discounts. Other sizes and/or custom modifications considered for quantity orders. Excellent references. Will soon be completing contract for over 3000 drawers with the Los Angeles County Museum. Now taking orders for delivery beginning in mid November. Write or phone for price list and description. We can't think of any reason why anyone who has seen our drawers and compared our prices would buy from anyone else.

KEECHOE GOOI, 70 Jalan Foo Win Yin, Canning Garden, 31400 IPOH, Malaysia. Malaysian butterflies, Coleoptera, Phasmida, Exotic insects, livestock, etc. For 1986 catalog, send US \$2 (cash) for air postage and printing.

TRANSWORLD BUTTERFLY COMPANY (LS), Apartado 6951, San Jose, COSTA RICA, C. America. NEW SPRING CATALOG! Specimens from South America, Africa, Europe etc. Rare Morpho (including o) from Guyana, Peru, Brazil, Argentina, Mexico, Colombia, Bolivia. Parnassius listing on request (including European and Mainland China spp). Low prices, prompt delivery. SEND \$1 FOR OUR CATALOG or \$6 for a years' newsletters/catalogs issued monthly. ALSO, TRY BUTTERFLY COLLECTING IN COSTA RICA: over 1,500 butterflies, 9,000 moths, 850 Bird species found in Costa Rica. Fully inclusive program, includes transportation, meals and accommodation. Maximum 6 persons per group. Write for full 8-page brochure explaining about Costa Rica and our low cost program for collectors.

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"Forthcoming Meetings"

XERCES SOCIETY ANNUAL MEETING

The Xerces Society will hold its Annual Meeting from Wed, June 10, through Sat, June 13, 1987, at Gainesville, Florida, cohosted by the Florida State Collection of Arthropods. In addition to papers, a field trip to the Florida Keys will be undertaken on the 13th. Contact the coordinator, Dr Tom Turner, P.O. Box 6272, Clearwater, Florida 33518 (phone 813 726-1800) for further details.



THE LEPIDOPTERISTS' SOCIETY 38TH ANNUAL MEETING

University of California, Berkeley, CA., USA
June 25-28, 1987

The Department of Entomological Sciences, University of California, Berkeley, will host the 38th annual meeting of the Society during the last weekend in June, 1987. Special features of the meeting will include:

- Symposium on behavior/behavioral ecology of Lepidoptera
- Panel discussions of the application and political implications of subspecies
- Open houses at three of the major Lepidoptera Collections in Western North America: California Academy of Sciences, San Francisco; Essig Museum of Entomology, U.C. Berkeley; and the Bohart Museum of Entomology, U.C. Davis
- Annual banquet and awarding of the Karl Jordan Medal for 1987

- Local field trips and Xerces Society Butterfly Counts at Berkeley (13th annual) and Mt. Diablo, Contra Costa County (8th annual)
- Possible 2-3 day field trips to the Sierra Nevada, north Coast Range, or Cascades of northern California following the meeting
- Diverse tourist opportunities accessible in San Francisco and the Bay Area within a short drive or by Rapid Transit from a station one block from campus

ACCOMMODATIONS

Rooms in student Residence Halls, which are located about two blocks from campus, will be available. The facilities, which are suitable for single or double occupancy, consist of rooms with two beds, with a community bathroom on each floor. Exact rates are not available at this date but are expected to be about \$35/person double occupancy, \$45/single, per day, as a package rate for the full meeting period, and this will cover all food services including barbeque and banquet.

There are several hotels and motels located within walking distance (1 block to 1 mile from campus), at daily rates of about \$30-\$68 single and \$34-\$74 double, without meals. There are no campgrounds or recreational vehicle parks in the nearby Berkeley area, but several are available within an hour's drive. Some of these are State Parks, and their sites will need to be reserved several months in advance.

Details of all types of accommodations will be provided with the registration packets.

REGISTRATION

There will not be a general or regional mailing of registration forms and call for papers to society members. If you are interested in attending the meeting or obtaining more information, please complete the questionnaire below and return it as soon as convenient. We expect to have registration packets ready for mailing by February 1, 1987, and deadlines dates for Resident Hall accommodations, submission of titles to the program, etc., will be available at that time. Your prompt response will help us in planning accommodations and extracurricular activities.

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Name: _____

Address: _____ City: _____

State/Province: _____ Country: _____ Mail/Zip Code: _____

Please provide the following data, even though tentative.

Number of persons in your party who will register and attend meetings: _____

Number of additional party members who will need accommodations, attend banquet, etc.: _____

Will you stay in: _____ Residence Hall; _____ Motel/hotel; _____ Campground; _____ other.

Do you plan to present a paper in the program? _____

Would you participate in a members' Photographic Salon? _____

Are you interested in a one-day field trip following the meeting? _____

Would you participate in one or both butterfly counts after the meeting? _____

Are you interested in a group trip to the Sierra Nevada or similar site? _____

Mail to: J. A. Powell
Department of Entomological Sciences
201 Wellman Hall
University of California, Berkeley, CA. 94720

From: The Lepidopterists' Society
Address Correction Requested:
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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, Eric Metzler, 1241 Kildale Square North, Columbus, OH 43229, USA, 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, Eric Metzler, 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.