

# NEWS

of the LEPIDOPTERISTS' SOCIETY

EDITOR

June Preston

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U.S.A.

## ASSOCIATE EDITOR

Apple  
Brewer



## ZONE COORDINATORS

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

## MILWAUKEE 1990

The population of Milwaukee increased by more than 100 as members gathered on Thursday, 14 June 1990, for the 1st Annual Meeting of The Lepidopterists' Society. They came from 26 states and the District of Columbia plus from Taiwan, Panama and Australia. Many brought their families with them too. The Milwaukee Public Museum was host, and the lepidoptera collections were open for examination, as were the outstanding public exhibits.

At the Executive Council Meeting on Thursday we were saddened to learn of the sudden death, a few weeks before, of Joyce Karpoleon, wife of our new Treasurer, Fay Karpoleon. Fay, accompanied by his son Marc, was able to attend the first portions of the meeting, but left early to attend to personal matters.

The traditional Thursday evening reception was held in the Carpenter Tower, a Marquette University facility where many of the attendees enjoyed excellent and inexpensive housing. Several hours were passed in meeting new and old friends and exchanging interval histories.

The formal meetings, in the lecture hall of the museum, were opened with a welcome by Museum Director Barry Rosen. Then followed a symposium on Caterpillar Biology, with Lincoln Brower presiding. Subjects included chemical defense, energy costs of moving about and feeding at different temperatures, color polymorphism, foraging behavior, etc. The surface has barely been scratched in this field of study.

An unusually clear group picture was taken on the steps of the museum during the noon break. Some peach borer pheromone in your writer's shirt pocket attracted numerous city-bred Sesiids, *Albuna fraxini*, to the gathering, much to the consternation of those not accustomed to wasp-moths.

The afternoon session, chaired by Lee Miller, covered such varied subjects as fine microscopic structures, cocoon construction, taxonomic revisions, and the biology of hook-tip moths. The session ended with Boyce Drummond, JOURNAL Editor, describing the process of converting one's scientific observations into a publishable paper. It is straight-forward, non-mysterious: you can do it.

Friday evening opened with a flawless (fly-less) clinic on the impeccably-kept campus of Marquette. It was a pleasant diversion to see cottontails hopping about the greensward (in most cities it would have been rats). At the annual slide show later, Art Shapiro shared with us observations on botany and pseudoanthropology from the pendant tip of South America. Francisco Delgado, of the University of Panama, depicted in detail some of the ecological perils facing his country. Charlie Covell reviewed the editorial history of previous meetings going back several decades: some of our austere members were kids, once! And at least but not last was a shot from California (where else?)

of a monarch butterfly with a head bearing an uncanny resemblance to John Lane. An aberrant, no doubt, or could this be the long-feared super-subspecies, *Danaus plexippus lanei* (Barf.)?

A small group of bright-eyed and broad-minded members arose at 6 a.m. Saturday to appraise the local avifauna, otherwise known as checking out the competition. Has anyone ever calculated how many noctuid and geometrid larvae are sacrificed to build one warbler?

Saturday morning's session dealt with Lepidoptera Biology of the Upper Midwest and was run by Mo Nielsen. Topics included buckmoths of the Great Lakes region, controlled burning in relation to the life cycles of prairie skippers, unravelling *Erythroecia* and *Stirra* life-histories in Ohio, prairie associated or dependent leps in Wisconsin and in the Chicago region, and biological comparisons of Great Lakes region swallowtails with the same species from other regions.

Jacqueline Y. Miller presented her Presidential Address, "The Age of Discovery: Lepidoptera in the West Indies." Her discussion of the varied island populations and their relation to and derivation from the continental fauna, as influenced by geology, geography, and the desecrations of man, indicated that this age of discovery is still in its early instars.

Subjects in the Saturday afternoon session, under the aegis of Austin Platt, ranged from butterfly gardening to acquired toxicity in ithomiline butterflies, from the effects of wear on mandibles of notodontia larvae to population studies of Florida monarchs. The high point of this session was the report by the Bagdonas Flying Circus master that over one third of the grizzly bears in the Yellowstone ecosystem spend their summers above timberline subsisting primarily on noctuid moths, which they garner from roosting aggregations beneath loose talus rocks. To think that the noble grizzly would be dependent on the humble miller moth!

The Saturday evening social hour was held in the shadow of the museum's rain forest exhibit. Deane Bowers shared a sack of unscheduled hors d'oeuvres in the form of mapanil worms (dried saturniid larvae) from South Africa. They tasted rather like crackers. One could live without them.

Following a tasty and satisfying banquet in Uihlein Hall, President Miller presented the Karl Jordan Medal to Ebbe S. Nielsen, of the Australian National Insect Collection in Canberra. Dr. Nielsen made a potentially deadly subject, "Towards a Phylogeny for the Lepidoptera," lively, enlightening, and even entertaining! He is to be congratulated both for his work and for his presentation.

Charlie Covell m-c'd the 20th annual door prize drawing with his usual finesse. Suspense ran high to see who would make off with the many beautiful and valuable offerings. Art Shapiro went home in a butterfly T-shirt, his first win in 20 years, and your secretary garnered a cyanide jar (do you think they are trying to tell me something?). Our unbounded thanks go to all the generous donors of the prizes.

The final brief scientific session, chaired by John Rollins on Sunday morning, dealt with biogeography of sphingids, satyridae, neotropical theclines, and southern Andean pierids.

The annual business meeting wound up the formal activities for the year. Some members departed directly for their homes, while others detoured to inspect butterfly gardens in the area, and to go north to the University of Wisconsin field station in Saukville for an overnight stay. Chief attraction there was the Cedarburg bog ecosystem: pitcher plants harbored larvae of the pitcher plant moth, and buckmoth larvae were feeding on willow and bogbean. Overnight moth collecting was very productive.

Credit for the outstanding success of the meeting goes to coordinators Sue Borkin and Allen Young, along with their numerous ancillaries, who had labored for two years to create this event. And particular thanks go to Ray Sullivan, Sue's father, who managed the projector (and countless other details) in a nearly flawless manner, enabling the scientific sessions to proceed more smoothly than any within memory.

In summary, the broad range of titles presented during the meeting offered items of interest to all facets of our Society, from field-roaming amateur to cloistered taxonomist. This, together with the opportunities to socialize and renew acquaintances, and to become familiar with territory which may be new to us, makes the trip to the Annual Meeting an extremely rewarding experience. We look forward to seeing you in Tucson, Arizona, next August.

Dave Winter

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#### 1990 ANNUAL BUSINESS MEETING MINUTES

President Jackie Miller called the Annual Business Meeting of The Lepidopterists' Society to order at 10:42 a.m., 17 June 1990, in the lecture hall of the Milwaukee Public Museum. Approximately 50 members were present.

She first reported on the activities of the Back Issues Committee, that Floyd & June Preston had done a massive job of moving the entire stock from its previous storage place at Allen Press, in Lawrence, Kansas, inventorying it, and sending a maximum of 100 copies of each issue to the Los Angeles County Museum for storage. Eighteen of 20 complete sets of the JOURNAL remain for sale through BioQuip. The details of putting the retained material in order for access and shipment have been accomplished by Publications Coordinator Ron Leuschner.

Retired Treasurer Jim Tuttle reported on the 1989 balance sheet: beginning balance (rounded) \$93,000, receipts 57,000, expenditures 45,000, and ending balance 105,000. This balance was made up of Life Membership Reserves \$25,000, Publication Fund 14,000, Color Illustration Fund 1,500, and Operating Fund 64,000. Jim has left the Society in good financial health.

Secretary Dave Winter reported on the "arrears letter" sent to all members dropped for non-payment of dues for 1989. Recovered memberships for 1989-1990 exceeded \$875, with many members thanking us for the reminder. He also reported on the "Poster Project." Color posters, printed in April, have been distributed to over fifty museums and science centers in an effort to secure new members. Further input from the membership was requested, to identify other centers to contact.

Plans for future meetings were announced: Steve

Prchal will coordinate the 1-4 August 1991 meeting in Tucson to be co-hosted by Sonoran Arthropod Studies, Inc., Center of Insect Science and the Department of Entomology of the University of Arizona. The date was chosen to coincide with the new moon and the start of the rainy season, the time of greatest moth emergence in the area.

The 1992 meeting will be held 25-28 June in East Lansing, Michigan under the direction of Fred Stehr and Mo Nielsen, and co-hosted by the Department of Entomology, Michigan State University, and the Michigan Entomological Society.

In 1993, on 8-11 July, Paul Opler will manage the meeting in Fort Collins, Colorado, with Dr. Tom Holzer, Chairman of the Colorado State University Entomology Department as co-host.

NEWS Editor June Preston called for contributions of more articles and black/white photographs for the NEWS, on collecting, rearing, general field observations, etc.

JOURNAL Editor Boyce Drummond reported that the first JOURNAL issue to contain color had been mailed 5 June, and that the Society's subsidy has been raised to 50% of the \$800 page cost (details are available from the Editor). He also needs more line drawings for JOURNAL covers, and b/w or color photographs for the "Feature Photographs" section.

MEMOIRS Editor William Miller reported that a manuscript on worldwide Saturniid larval foodplants has been provisionally accepted.

The Committee on Endowments and Awards, chaired by Ben Ziegler, has produced a revised policy on guidelines for awards, and has approved the criteria for the Harry K. Clench award. These both will be reported in the NEWS. Members with suggestions re awards should contact the chairman.

Charlie Covell's Techniques Manual will be designed in two parts: I. Beginning Techniques. II. Finer Techniques. Authors for some sections have already been defined. Generation time is expected to be three years.

A Society T-shirt, blue or yellow with the Society logo in black, will be ushered forth by Charlie before the year's end.

A new Committee on Public Relations, co-chaired by Sue Borkin and Jackie Miller, will explore the role of the Society in supplying reliable information on lepidoptera to the general public and to conservation organizations.

The President read a list of the members whose deaths had been made known to us since the last Annual Meeting, and a moment of silence was observed.

The Nominating Committee was announced: Deane Bowers, Lee Miller, and Ron Hodges, chairman.

It was noted that new editors will be needed for both the JOURNAL and the NEWS for January, 1992.

Assistant Secretary Julian Donahue voiced special thanks to Jim Tuttle for his work as treasurer, and in particular for his meticulous attention to detail in maintaining the accuracy of the membership list.

President Miller named Dale Habeck to the Executive Council to replace Floyd Preston, who is now a Vice President.

After extending generous thanks to all her supporting officers, Jackie handed over the gavel and antennae of office to incoming President Ron Leuschner, who remarked that he had attended his first meeting in 1951, at the Field Museum in Chicago.

The meeting was adjourned at 11:30 a.m.

Respectfully submitted,

Dave Winter, Secretary



CANDID PHOTO IDENTIFICATIONS. Photographers: Dave Winter for numbers 1, 2, 3, 4. Charlie Covell for all the rest. Unless otherwise noted, identifications are from left to right. 1. Dennis Schlicht and Robert Dana; 2. Steve Cary (back to camera), Raymond Neck and Art Shapiro; 3. Jo Brewer and Deane Bowers; 4. Dan Petr; 5. John Rawlings; 6. Brian Scholtens and Deane Bowers; 7. Francisco Delgado and Dale Habeck; 8. Linda Fink with Lincoln Bower; 9. Richard Merkhoffer, Paul Milner and Francisco Delgado; 10. Stephen Parshall, Bob Platt and Susan Borkin; 11. Julian Donahue, Jim Brock and Carol Ferge; 12. Eric Metzler; 13. The mob gathering for the group photo; 14. Boyce Drummond and Ebbe Nielsen; 15. Walter Zanol and John and Sarah Burns; 16. Part of the picnic crowd; 17. Kathy Wildman, Bill Miller and Allen Young; 18. More of the picnic crowd; 19. George Godfrey, Art Shapiro and Ron Hodges in foreground; 20. Phil Koenig, Don Wright and the Baloughs at the front table; 21. Ben Landing, Ben Ziegler, June Preston, Ron Hodges in background and Mo Nielsen.



**CANDID CAMERA MILWAUKEE**



**MORE MILWAUKEE CANDID PHOTOS**

## KARL JORDAN MEDAL AWARD 1990

This year's award goes to Ebbe Schmidt Nielsen, who was born in Boes, Dover, Denmark, on June 7, 1950. He was educated at University of Århus 1971-74 and University of Copenhagen, 1974-80. M.Sc. in Entomology 1976 (insect migration and systematics of Lepidoptera and Neuroptera) and Ph.D. in 1980 (systematics and phylogeny of *Incurvarilina* under the supervision of Dr. Niels P. Kristensen). As a research student, he had valued visits to Dr. Klaus Sattler, Natural History Museum, London, and Dr. Don. R. Davis, Smithsonian Institution. He is a member of and has held office in a number of professional societies, including: Honorary Member, Finnish Lepidopterological Society; Honorary Member, Sociedad Entomologica Argentina; Fellow and Council Member, Willi Hennig Society; Inaugural member and chairperson (committee on Taxonomy, Systematics, and Nomenclature, 1976-82), Societas Europaea Lepidopterologica; Vice-president 1986-88, Lepidopterists' Society; Association of Pacific Systematists.



Dr. Nielsen was associated first with the Natural History Museum, Århus, Denmark, 1969-74, and then with the Entomological Department of the Zoological Museum, Copenhagen, 1974-82, as assistant of Lepidoptera and postdoctoral fellow 1980-82. In 1982, he joined the Australian National Insect Collection (ANIC), CSIRO Division

of Entomology, Canberra, as research scientist and Unit Leader for Lepidoptera. In 1986, he was appointed Convenor of the Division's Taxonomy Discipline Panel and in 1990 Section Head of the ANIC. Dr. Nielsen currently serves as editor of *Monographs on Australian Lepidoptera*, Lepidoptera Editor of *Entomologica Scandinavica* (1979-pres.) and *Fauna Entomologica Scandinavica* (1979-82) and Taxonomic Editor of the revised *Insects of Australia*.

Field work has always been a high priority for Dr. Nielsen. While in Copenhagen, he led two expeditions to southern Argentina and Chile. Since moving to Australia, he has revisited Chile and been on major field trips in many parts of Australia. With more than 70 publications (including 6 books and monographs) to date, Dr. Nielsen is recognized for his excellent works on the systematics, morphology, and phylogeny of the Lepidoptera with particular reference to the 'primitive' Lepidoptera. He has contributed particularly to our understanding of Heterobathmiidae, Neopseustidae, Lophocoronidae, Hepialoidea, Incurvarioidea and Palaephatidae and the morphology, general biology and phylogeny of the lower Lepidoptera. Other primary research interests include: (1) biodiversity of Lepidoptera and the use of Lepidoptera as bioindicators; (2) database/checklist/illustrated catalogues of Australian Lepidoptera; and (3) modern systematic methods and cost-effective ways of handling insect taxonomy. Many of these projects are undertaken in collaboration with colleagues both nationally and internationally.

## RESOLUTIONS 1990

With apologies to John Burns, Jo Brewer, and all the other accomplished poets in attendance:

In June, nineteen hundred and ninety  
Lepidopterists came from all over the country,  
from Australia and Taiwan,  
even Baraboo, Wisconsin,  
all migrated here to Milwaukee.

For months at the Milwaukee Museum,  
tolling unsung and unseen,  
Young and Borkin made plans,  
and with many volunteers' hands,  
prepared for the upcoming meeting.

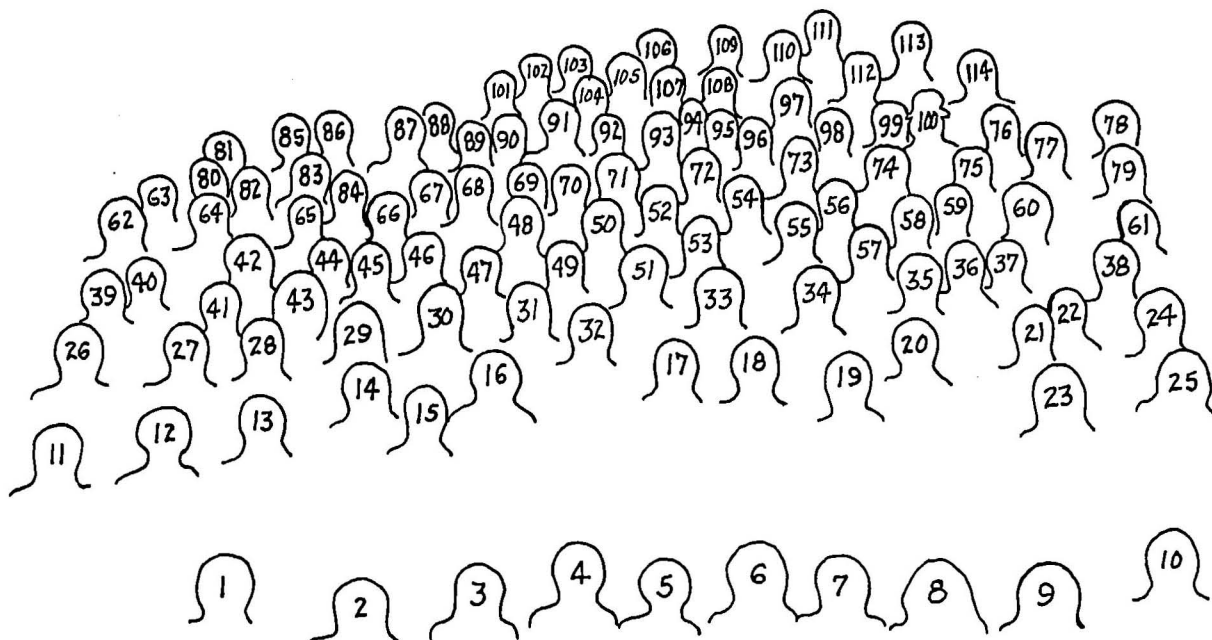
As attendees started arriving,  
whether by plane, taxi, bus, or just driving,  
you could just bet,  
all the details were set,  
with everyone's anticipation rising.

An evening reception made it quite clear,  
old friends and new were all here,  
with good food and conversation,  
amid amiable socialization,  
all generously lubricated with beer.

Come morning the coffee was ready,  
for the unclear, unawake and unsteady.  
Once in the auditorium  
we were made all-the-morning  
welcome to the Museum and the City.

Then came the main attraction,  
after all, our principal distraction;  
the charts, figures, slides and data  
with which each strived to elucidate a  
technique, hypothesis or observation.

CANDID PHOTO IDENTIFICATIONS. Photographer: Charlie Covell. All identifications are from left to right unless otherwise noted. 22. Sen Yeong-Chium, Chen W. Young, C. S. Lin; 23. Ebbe Nielsen and George Godfrey; 24. Stephanie McKown, Jane Ruffin, Károlis Bagdonas; 25. Lincoln Brower chairs a session; 26. Mo Nielsen and David Iftner; 27. Ron and Elaine Hodges, Charlotte and Doug Ferguson and Dan Petr; 28. Jackie Miller, Ebbe Nielsen and Lee Miller; 29. Bob Borth and friend with Jim Brock; 30. Jackie Miller presents the Jordan Medal to Ebbe Nielsen; 31. Floyd and June Preston; 32. Ray Sullivan; 33. Steve Mueller, Peg and Jim Tuttle; 34. Ebbe Nielsen presents his banquet address; 35. Charlie Covell; 36. Allen Young makes some announcements; 37. Jo Brewer and Dave Winter; 38. Adrienne Venables, John Lane and Bill Miller; 39. Clockwise from the left, David Ritland, Ernest Williams, David DeSwarte, Steve Prchal (with back to camera); 40. Robert Lederhouse; 41. Society Secretary Dave Winter; 42. Jim Tuttle gives the Treasurer's Report; 43. Ron Leuschner bends down so Jackie Miller can give him his presidential antennae; 44. New President, Ron Leuschner, dismisses the meeting.



GROUP PHOTO IDENTIFICATIONS: 1. Susan Borkin, 2. Mary Ann Daman, 3. Dawn Dockter, 4. Judy Pooler, 5. Jo Brewer, 6. Stephanie McKown, 7. Elizabeth Klafter, 8. Kathy Wildman, 9. Clara J. Bye, 10. Ben Landing, 11. Danny Burk, 12. Florence Ferge, 13. Deborah Matthews Lott, 14. Carol Ferge, 15. June Preston, 16. Katherine T. Sieker, 17. Ron Hodges, 18. Elaine Hodges, 19. Waldemar Kmentt, 20. Eric H. Metzler, 21. David C. Iftner, 22. Adrienne Venables, 23. Jim Wiker, 24. Matt Mergener, 25. Maria Plonczynski, 26. Rick Rozycki, 27. Raymond J. Sullivan, 28. Terry Lott, 29. Cathy Bleser, 30. Mark D. Schmidt, 31. Les Ferge, 32. Dave Winter, 33. George L. Godfrey, 34. Brian Scholtens, 35. Don Wright, 36. Charlie Covell, 37. Gertrud Zoeller, 38. Francisco Delgado, 39. David Matusik, 40. Chen W. Young, 41. Jim P. Brock, 42. Nancy Stamp, 43. Pat Fojut, 44. John Burns, 45. Art Shapiro, 46. Sarah Burns, 47. Dennis Schlicht, 48. John Fleckenstein, 49. Phillip E. Koenig, 50. Steve J. Mueller, 51. Ron Flaspohler, 52. Peg Tuttle, 53. Chip Codella, 54. Raymond Neck, 55. Greg Lintereur, 56. Alan Masters, 57. Ernest Williams, 58. Gregory B. Swanson, 59. Marion Lopina, 60. Arlene Kaufman, 61. Steve Prchal, 62. Giovanni Onore, 63. Kevin Kons, 64. John Rawlins, 65. Jaret C. Daniels, 66. Boyce A. Drummond, 67. Ann Malecki, 68. Dan Petr, 69. Jill Neidhoefer Doedens, 70. Jim Tuttle, 71. Jane Ruffin, 72. Lee D. Miller, 73. Jacqueline Y. Miller, 74. David Ritland, 75. Deane Bowers, 76. Steve Cary, 77. Douglas C. Ferguson, 78. Hugo Kons, Jr., 79. Fay Karpuleon, 80. Sharon Kons, 81. Kurt Johnson, 82. Tim Casey, 83. Linda Fink, 84. James Malecki, 85. Ebbe S. Nielsen, 86. Austin Platt, 87. George J. Balogh, 88. Allen M. Young, 89. Robert Dana, 90. Lincoln P. Brower, 91. Bill Miller, 92. James R. Neidhoefer, 93. Mary Alexis Pfitzenreuter, 94. Stephen Parshall, 95. George F. Holbach, 96. Richard M. Merkhofer, 97. Ron Leuschner, 98. David DeSwarte, 99. Jim Parkinson, 100. "Mo" Nielsen, 101. Bob Wuttken, 102. Walter Zanol, 103. Ann Milner, 104. Floyd Preston, 105. Kärolis Bagdonas, 106. C. S. Linn, 107. Dale Habeck, 108. Ben Ziegler, 109. Sen Yeong-Chium, 110. Bob Borth, 111. Tom Barina, 112. John Lane, 113. Julian P. Donahue, 114. Paul Milner.

The papers were all stimulating, whether scenery, statistics, or hybrid mating; from Gondwanaland to Patagonia, to Taiwan, to southern Florida, with abundant depictions of genitalia.

But I admit my verses digress,  
for having thus far failed to express  
our resolve to give thanks  
to the numerous ranks  
who worked to contrive this success.

We thank the Museum, our host,  
for making our enjoyment the most,  
with a welcome most generous  
and courtesies endless  
we owe them a complimentary toast.

Further, be it resolved,  
to extend to all those involved,  
our heartfelt expression  
of thanks and appreciation,  
for a memorable time for us all.

To Allen, who kept us in line,  
reminding us when it was time,  
he made us feel welcome  
to the Museum and the collection,  
all the while being in three places at one time!

Sue Borkin and Ray Sullivan (her father),  
both worked like probably no other,  
from morning to nights,  
from coffee to slides,  
they shepherded our flock like a brother.

To Susan and Allen and their crew,  
to the staff and volunteers, too,  
to the sponsors and fieldtrip leaders,  
program organizers and speakers—our thanks,  
it wouldn't have happened without you.

As time turns the Society wheel,  
a new executive board comes to heel,  
but to board-members past  
let's take time at last

to express our appreciation real;

For a job well-done in our stead,  
they've worked many hours past bed-  
time spent on the details  
from policy to journal resales,  
they've served with their hearts, seats and head.

To whitt: retiring executive council members-at-large Dale Jenkins, Floyd Preston, John Rawlins and Jo Brewer; retiring vice-presidents Richard Holland, Niels Kristensen, and Don LaFontaine; retiring treasurer (of 3 years) Jim Tuttle and retiring president Jackie Miller.

So:

We'll long remember Milwaukee with good cheer,  
and the wonderful meeting we've had here.

As we all go our separate ways,  
recalling these pleasant days,  
we'll all look forward to Tucson next year.

John Lane  
Resolutions Committee

#### PACIFIC SLOPE MEETING, 1990

Over 35 members, many with their families, gathered over the weekend of August 3-6 at the Malheur Field Station, Harney Co., Oregon, for a well planned, interesting 37th Annual Meeting. Eight states (including Hawaii) were represented and Uri Caspi came with his young son from Israel to join in the activities. Dave McCorkle and Paul Hammond, assisted by Susan Anderson, Bob Pyle, John Hinchliff and Barry Sullivan did a fantastic job of putting together a well thought out and varied program for the weekend. There was an informal slide show following registration and dinner on Friday night and numerous black lights were visible around the Field Station after dark despite a fairly bright moon.

Saturday was devoted to both morning and afternoon technical paper sessions with the following papers being presented: "Status of the Northwest Lepidoptera Survey," Robert M. Pyle, Gray's River, Washington; "Protandry in *Parnassius phoebus* in the Olympic Mountains," Robert E.

Kirk, Seattle, Washington; "Larval color patterns in the genus *Speyeria*," Paul C. Hammond, Philomath, Oregon; "An illustrated synopsis of the phycitine pyralid moths of California," Julian P. Donahue, Los Angeles, California; "From classic to cladistic: Systematics and biogeography of the genus *Chaospes* Moore," Hideyuki Chiba, Honolulu, Hawaii; "*Kodiosoma* (Arctiidae) in Utah," Robert C. Mower, Orem, Utah; "The burrowing sod webworms of California (Tineidae: Acrolophinae: *Acrolophus*)," Julian P. Donahue, Los Angeles, California; and "Butterflies of Steens Mountain," John Hinchliff, Portland, Oregon. A discussion of western moth projects and a short business meeting, in which it was decided to meet jointly with the National group in Tucson, Arizona in 1991, preceded the leisure time activity hour. Beers from over 20 different small breweries were available for sampling. Following a sumptuous dinner featuring a cake with a butterfly decoration, the John Adams Comstock Award was presented to Hide Chiba for his student paper while the man we honored was Alexander Barrett Klots. A spellbinding lesson on the Natural History of the Pacific Northwest was then presented by Jim Anderson of Bend, Oregon. His young daughter highlighted the evening when she emerged from her brown pupal case to flit away as a beautiful Papilio. The collection of color slides that further illustrated the talk held our interest until time for the door prize drawing.

Sunday was devoted to an all day field trip to Steens Mountain where the butterflies and moths were fairly abundant. Some members had even gone out to the mountain Saturday night to set up their black lights. We worked our way up the mountain, finding different species flying in different altitude zones. Dave McCorkle discovered a *Colias pelidne* colony on the ledges below the east rim of the mountain, a real find and modern day evidence that some very old records are not in error. The nearest *pelidne* colony is about 200 miles away. Sunday evening, after dinner, a videotape of the history of the Frenchglen and Steens Mtn area provided additional entertainment for those who had not already departed for home. Both before and after the meeting there was also opportunity for collecting in and around the Field Station and the weather cooperated beautifully.

#### THE JOHN ADAMS COMSTOCK AWARD, 1990 THE MAN WE HONOR, ALEXANDER BARRETT KLOTS

The John Adams Comstock Award is presented by the Pacific Slope Section of the Lepidopterists' Society to the best student paper given at its Annual Meeting. Each year, the award honors a different lepidopterist who has made a significant contribution to the study of Lepidoptera in the West.

The works of Alexander Barrett Klots have sparked, and for some ignited, a passion for butterflies and moths among generations of naturalists. His published works include a wealth of popular books and articles, young adult natural history literature, and over 60 peer-reviewed scientific papers, including benchmark contributions on pierid and crambid systematics, lepidopteran genitalia, and biogeography of the alpine and arctic butterfly faunas of North America. To many, he is best known for his Peterson Field Guide on eastern butterflies, which perhaps more than any other book to date, has made North American lepidopterology accessible to the amateur, young student, and professional alike. Both a charter and honorary life member of the Lepidopterists' Society, he served as its president in 1957 and vice president in 1974.

Alexander B. Klots, known to us as Bill (an unpretentious name coined by his father), was born in New York City in December 1903, to Ephraim Klots, a highly respected and successful physician in the city, and to Helen Giles Klots, the daughter of a British lord. His upbringing was very formal and, at times, rather stifling. His interest in the outdoors was apparent from early on, as whenever he could, he would slip off to spend countless hours hiking, hunting, fishing, and collecting insects.

His interest in butterflies was solidified at the age of nine when he began visiting the American Museum of Natural History. It was there that the curator of Lepidoptera, Frank Watson, encouraged and fostered Bill's studies of

butterflies, and where Bill would meet his lifelong friend F. Martin Brown. As an undergraduate, he attended Dartmouth and Yale Universities, but completed his B.S. at Cornell where he studied with William T. Forbes. He stayed on with Forbes for both his M.S. and Ph.D. to work on pierid systematics.

Graduating in 1931, at the depth of the depression, Bill took a job with Ward's Natural Science Establishment for three years, and began teaching as an associate professor at nearby Rochester University. In 1934, he accepted a position in the biology department at the City College of New York, where he taught biology, entomology, field zoology, and the then new science of ecology. Throughout his tenure at CCNY, Bill maintained an office at the American Museum, where he was a research associate and continued his studies of lepidopteran systematics.

Bill retired in 1965 and began intensive work on the North American Crambinae (Pyrilidae) fauna, a study which, because of ill-health, was incomplete at the time of his death in April 1989. Nevertheless, this work led to four taxonomic papers on the subfamily, including his last publication, the Crambinae section of the 1983 *Check List of the Lepidoptera of America North of Mexico*. Bill continued to collect during his retirement and remains among the few in our Society who avidly collected species of all lepidopteran families, from the tiniest Nepticulidae to the Saturniidae and Rhopalocera.

As a boy, Bill was very active in scouting and especially loved hiking, climbing, and fishing. Like so many lepidopterists, he must have had a dominant allele for "hunting and gathering," for if he wasn't out netting butterflies, he was just as apt to be bird hunting with his father or to be found organizing his stamp and coin collections. Falconry was his favorite avocation during his years at CCNY. Many weekends he traveled south to Assateague Island to trap peregrines, merlins, and kestrels, with pigeons wrapped in adhesive twine as bait. At times, he would even bury himself in the stand, holding on to the pigeon's legs, waiting for a falcon to strike! His love for falcons was shared by his wife Elsie and their two children, Ephraim and Louise, who helped him keep and train a number of peregrines and kestrels. Roger Troy Peterson describes Bill as a "first-class falconer" and says he often went along on Bill's trips to learn his techniques and to take photographs.

Bill published over a 60-year period, his first publication appearing when he was but 19 years old. His contributions are exceptionally diverse and include writings on entomology, botany, ecology, herpetology, falconry, and mountaineering. His most influential works were popular books and articles; among these were 18 books (not counting translations and subsequent editions), pieces on butterflies and moths for four encyclopedias, and numerous layman's features in *Family Circle*, *Natural History*, and other magazines. He published approximately 63 papers in peer-reviewed journals: 18 on pierids, 10 life history papers, 10 faunal papers, 7 on crambids, and 18 others addressing a variety of subjects.

Bill was one of the first entomologists to experiment with color and flash macrophotography. From 1940 to 1960, he was among the most published of insect photographers, his photos routinely appearing in books, magazines, encyclopedias, and newspapers, worldwide. His section in the *Field Guide to the Butterflies* (which first appeared in 1951) on butterfly conservation was the first significant mention of the need for invertebrate conservation in the United States and was no doubt influential in the appearance and success of the Xerces Society. Bill was an early advocate of the use of genitalia in butterfly systematics, and was among the first to show that female terminalia also offered numerous characters of phylogenetic importance. His contribution on the morphology and nomenclature of lepidopteran genitalia in Tuxen (1956) remains a highly cited publication.

While commissioned as a Captain in World War II, he was assigned to the Sanitary Corps of the Medical Department to serve as a Medical and Malaria Control Officer. He was among the first to experiment with DDT and study its efficacy in controlling malaria and yellow fever. (It was in this capacity that Klots met Sgt. Roger Troy

Peterson, who would later ask Bill to prepare a field guide and accompany Bill on his falconry trips.) At first, Bill was very cavalier about DDT and often sent packages stuffed with the powder to colleagues through the mail. After the war, his position of advocacy was completely reversed to one of extreme opposition by Rachel Carson's *Silent Spring*. The great irony was that perhaps the most severely impacted animal was the peregrine falcon, the bird Bill had come to respect and love above all others.

Bill's major influence on the study of western Lepidoptera probably derives from his many books and his contributions on *Colias* and *Boloria* to Ehrlich and Ehrlich's (1961) *How to Know the Butterflies* and to Howe's (1976) *The Butterflies of North America*. His love for the West was fostered by Benny Hyde, an amateur lepidopterist who met Bill and F. Martin Brown at the American Museum. While still a New Jersey resident, "Uncle Benny" took Bill and Martin on collecting trips to the pine barrens and elsewhere; later, after he moved to New Mexico, Bill and Martin would stay with Uncle Benny during summer months to collect around Albuquerque. Bill went west at every opportunity, and in 1923-24, took up residence at Jackson Hole, Wyoming, where he even entertained the idea of starting a dude ranch. He spent parts of at least 15 summers in the West collecting in all of the Rocky Mountain states except Montana. His publications treating western Lepidoptera demonstrate a decided preference for collecting *Colias*, *Boloria*, and other Hudsonian and alpine taxa.

His influence on me came at an early age, more than 20 years before I would meet him in person, a year before his death and then weakened by years of struggle with emphysema. Even then he was still a giant to me. I think of him often, not as an old man, but as tireless collector, slogging knee-deep across some bog, swatting *Colias*, *Boloria* and crambids.

I shall remember Bill for many things: in part for his proud and dignified demeanor; for his dry sense of humor, where puns were stacked upon puns; for his colorfully eccentric attire that paired suits with moccasins or a favorite old woolen army cap; but most of all for what he gave me as a young naturalist—knowledge and a passion to study entomology—through his field guide and other writings. More than any other North American biologist, his works have popularized lepidopterology and have served to catalyze and fuel the interests of legions of young entomologists.

David L. Wagner  
University of Connecticut

#### ITALIA SOCIETY QUITE ACTIVE

The 1990 Summer Field Trip of the Idalia Society of Mid-American Lepidopterists was held Saturday and Sunday, June 2 and 3 at Noblett Lake Campground in Mark Twain National Forest, Douglas Co., Missouri. In spite of a "wet weather" forecast, only one brief mid-day shower on Saturday marred the otherwise perfect collecting weather. About 15 species of butterflies and numerous moths (especially saturniids) were collected. Sam Webber of Cabool hosted the group following the collecting activities.

On Saturday, July 21, 30 members braved thunderstorms with occasional slivers of sunlight, and for some a 5 to 6 hour drive, to attend the Summer Picnic at Burr Oak Woods Nature Center, Blue Springs, Missouri. The Center Naturalist, Donna Burreis cooked the hot dogs and drove with them down to the shelter house where the members were so busy conversing that no one thought to look up. That is, no one but the group's avid leader, Richard Heltzman, who "sounded the alarm" and began, with collecting jar in hand, to retrieve many wonderful *Catocala* specimens from under the eaves of the shelter. Linda Ellis from the Missouri Native Plant society was a guest. On Sunday, July 22, the day following the picnic, the Idalia Society Members accompanied the Audubon Society on a Nature Hike through the Burr Oak Woods Nature Center. About 50 people enjoyed having the birds and butterflies identified on their walk through this wonderful Missouri Dept. of Conservation Area.

The Society is anticipating the close of their first



year of existence at the meeting on September 8 at Swope Park in Kansas City when Dr. Jim Murowchick will present the program on "Seeing China through the eyes of a lepidopterist and geologist." Jim lived in China this past summer on a National Science Federation Grant. There will also be activities for the young people in the group.

The Idalia Society membership is open to all persons interested in lepidoptera. Dues are only \$5.00 per calendar year for families or \$3.00 per calendar year for students. For more information, write to Eleanor Casebolt, 5600 East Gregory, Kansas City, Missouri 64132.

## From The Editor's Desk

June Preston



The Preston's Portable Pad and Lepidopteroogy Lab sits in the driveway again after a full summer of collecting, from West Texas to Ottawa, Canada and then to the Annual Meeting in Milwaukee before heading for the West Coast and eventually the Pacific Slope meeting in Oregon. Following the Wisconsin meeting we were joined for 6 weeks by a young French lepidoptera enthusiast, Benoit Mery, who had written to Society Secretary Dave Winter to inquire about United States collecting safaris. Dave had sent us Benoit's letter and we in turn wrote to offer him a collecting jaunt through the Dakotas, Colorado, Utah, Nevada, California and Washington, including visits with several other society members along the way. We had generally good collecting and Benoit returned to France on August 1 with 141 different U.S. butterfly species and subspecies from the 7 states where he had collected, including such rarities as L. cuprea snowi, P. oreas silenus and E. magdalena. He also spent some nights blacklighting for sphingids and other large moths, with a modicum of success in some areas. His blacklight attracted hundreds of sphingids in the South Dakota Black Hills, but at a reservoir near Oakdale in California the light attracted only hundreds of Mayflies and a frog, but not a single moth. Benoit is interested in rearing both moths and butterflies and sent ova from a number of sphingids to his cohorts in France. He also obtained ova of some Colias, Papillos and Parnassians. He was a pleasant and knowledgeable companion and very quick at learning to identify the U.S. species that were caught. We learned a great deal from him in our lepidopterological meanderings, since he was well versed in the foodplants and habitats of the European counterparts of many of the species that we were collecting. It was, all in all, a very rewarding summer.

I returned home to find a huge pile of mail and began immediately to work at getting NEWS #5 ready for the printer. Following are some letters that arrived during the summer. Perhaps some of you can answer the questions asked or benefit from the writers' experiences.

Dear Editor,

This summer I came to the rather sad end of five years of promethea moth rearing. I am writing to share my observations with you in the hopes that you may print this in the NEWS and someone who understands the why of what happened will write and share their knowledge and experience with me.

In 1985 I had my very first opportunity (after thirty years!) to rear local promethea moths as I encountered a female from which I obtained some eggs. I resolved to continue to rear successive generations as long as possible, given the artificial environment I was using. From each brood I would keep one female and set her out to call in a wild male. All my reared males were marked before release to ensure that the called male was not one of mine. I would keep 8-10 eggs of this pairing and rear them on wild cherry, indoors in a rearing case (constant average temp of 74-80 degrees). In the winter I would put the cocoons in a plastic container in the vegetable bin of my refrigerator. Usually I would spray them once a week with water. Given the differing schools on this practice, this winter I did not (I would, however, spritz them once-in-a-while once I had

taken them out and put them in the emergence cage). Generally the moths proved to be single brooded in this environment. Always, if an individual made it to the cocoon stage, it would successfully eclose, and, additionally, I lost very few caterpillars.

However, last year, only half of my brood emerged. I cut open one of the cocoons at that time and found that the pupa within still was active. So I kept those cocoons and overwintered them again. Additionally, I reared my usual single brood.

This year proved to be the end of the project. Not one emerged. After a suitable waiting time, I opened the cocoons to see if I could figure out what had happened.

All of the cocoons from 1988 which had overwintered twice, were dead. The pupae were hard and rigid, but intact and not shriveled or deformed in any way. The moths from the 1989 brood were also all dead, but from the grisly fate of having eclosed from the pupal shell only to be unable to leave the cocoon!

I'm interested in knowing if I did something wrong or if this is a rather normal phenomenon when rearing successive broods in a controlled environment. Also, gypsy moth spraying has begun in my area, going back to 1988, and so I'm wondering if somehow I might have gotten any contaminated leaves that might cause this....

I would appreciate hearing from anyone who can give me some advice and insight as to what occurred and if I can prevent it in the future. Thank you!

Monica Miller  
Bethel Park, PA

Dear June,

I've lost letters in the mail while corresponding with overseas breeders. This is a nuisance. One of my correspondents tells me it is common practice and recommends transfer of payment directly from my bank account to hers in the Philippines, with no risk involved. This is a good idea and I would recommend it to other butterfly and moth suppliers. The money gets there by wire with your name attached so if the order is lost, the cash isn't. Also send duplicate letters simultaneously, but be sure to mention this so they don't wait around for 2 cash transfers to arrive. My correspondent is Beatriz Malangis, Cawit Boac, Marinduque 4900 Philippines. Her English is fair and her typewriter is probably 1930 vintage. If any members write to her, please give her my regards. Sincerely,

Bill Cornelius  
Albion, California

[Ed. note: Prior arrangements should be made for this type of bank transfer since the bank name and account number must be divulged by the party accepting funds in this manner.]

Dear Editor,

I have been raising lepidoptera for over 30 years as a hobby, and tended to shy away from the commercial silk moth because, from all I have read, rearing them would be a full time project. Everyone that I know who has reared them has done so in open trays. I have found that, around my home, leaves left out in the open become totally dried up and impossible for anything to eat. So, when I did get several pairings of this species, I put the ova in my unheated garage. I was told by other breeders that they would not survive the winter, but they did. I took some of them inside the house and reared them in an old 10 gallon aquarium tank, switching tanks when I changed the food plant. They did poorly, as too much condensation took place and the larvae would drown in it as they seemed to be attracted to this moisture. A month later, when those I was rearing indoors were nearly full grown, I went back to my garage and found the rest of the larvae appeared to be still alive but in a dormant condition. I sleeved them on a mulberry tree. They thrived and some are spinning cocoons now. I had to change the sleeve 3 times. I believe that I can raise more and healthier silk moths in this way than in any other way. I think that my strain may even be capable of surviving in a semi-wild state. The only reason they wouldn't survive in the wild is that they would not be able to move from one tree to another unless the limbs actually touched each other. As for

camouflage, they may appear as a white bird dropping. The females always drop all their ova in one area, so they would get so thick in a short time that they would eat themselves out of food very rapidly and then starve. I have reared many species and these seem to be the easiest of all to rear. Does anyone know if I have a new and healthier strain?

Ken Knight  
Comstock Park, Michigan

## Notices



### CONFIRMATION THAT AMBLYSCLIRTES ALTERNATA OCCURS IN OKLAHOMA

A possible Oklahoma state record of Amblyscirtes alternata (Grote and Robinson) was reported in The NEWS of the Lepidopterists' Society No. 2, March/April issue, 1990.

This report was based on a male Amblyscirtes collected near Noble, Oklahoma, on July 3, 1980. It appeared to match the description of alternata more closely than sympatric Amblyscirtes belli Freeman. I also reported a possible female specimen taken at the same locality a few days later. Neither had been examined by a specialist.

Both specimens have since been examined closely by H. A. Freeman. He confirmed the male is an alternata; the female is a belli. This confirms that alternata occurs in Oklahoma.

Neither Freeman nor Paul Opler (personal communication with both) know of other records of alternata from Oklahoma, nor is that state listed in published distributional data as previously mentioned. The Oklahoma specimen is presently retained in my personal collection.

Ken Davenport  
Bakersfield, California

### JUST A REMINDER

Don't forget, that if you wish any changes to be made in your directory listings, that this information should be sent directly to the Assistant Secretary, Julian Donahue (address on back cover of all NEWS issues). The deadline for this information is October 11, 1990. Your listings include, besides name, address and phone numbers (if you wish these numbers published), your areas of interest or specialization and whether you buy, sell, collect or exchange specimens. In addition to this usual information, members who are on an electronic mail system may wish to include their electronic mail (e-mail) addresses.

### TRIPS TO REMOTE AREAS OF ECUADOR

An Ecuadorian biology teacher living in Quito is willing to take small groups of naturalists to remote locations in the Ecuadorian Amazon for two weeks starting December 22, 1990. For more information, write to: Phillip E. Koenig, 1330 Paddock Drive, Florissant, MO 63033-2239, U.S.A.

### SEASON SUMMARY, INSTRUCTIONS TO CONTRIBUTORS

**Format:** type double-spaced, one side of paper only; please list, rather than writing a narrative; use separate sheet for each state.

**What to report:** species of unusual occurrence with regard to geography, flight season, altitude, numbers; "choice" species; migrations; new food-plant observations; unusual behavior; aberrations. Contributors should be able to defend accuracy of determinations, assertions re county records, etc.

**How to report:** segregate by states or provinces separate butterflies from moths; give name of species locality (at least as definable on topographical or road map) county, date of record, how attracted or captured, if pertinent (primarily for moths).

**Names and sequences:** use Ferris, Supplement to A Catalogue/ Checklist of the Butterflies of America North of Mexico (Lep. Soc. Memoir No. 3, 1989) for butterflies, MONA list (Hodges, 1983), for moths or the most up-to-date reference available to you for each group. List the species in the same sequence as in that reference (this will save the coordinator an immense amount of time). Cite the name of any expert who defined a difficult or unusual species for you.

**Records from prior years,** dated as such, may be included, if proper determination resulted in delay, or to respond to a statement in a previous Summary.

**When to report:** reports must reach coordinator by 5 January 1991 in order to allow him the next six weeks to compile data. EARLIER REPORTING IS ENCOURAGED, so that coordinator will have time to inquire about any data that are unclear.

**Where to send reports:** The 13 numbered and defined zones with the Coordinators' names and addresses follow this notice. Please send the state/province report directly to the Coordinator for the appropriate area.

All contributors will be acknowledged by name in the summary. However, the balance of significance vs. space available will determine whether a particular record is included by the coordinator.

NOTE: A record as used in the summary should mean the first time known to the collector that that species had been captured in a given province, state or county.

### LIST OF ZONES AND COORDINATORS

- FAR NORTH** (Eastern Siberia, Alaska, Yukon, NWT, Greenland): Ken PHILLIP, Inst. of Arctic Biology, Univ. of Alaska, Fairbanks, AK 99701 USA.
- PACIFIC NORTHWEST** (OR, WA, ID, B.C.): Jon SHEPARD, Sproule Creek Rd., R.R. 2, Nelson, B.C., V1L 5P5 CANADA.
- SOUTHWEST** (CA, NV, AZ): Bob LANGSTON, 31 Windsor Ave., Kensington, CA 94708 USA.
- ROCKY MOUNTAINS** (Alta, MT, WY, UT, CO, NM): Ray STANFORD, 720 Fairfax St., Denver, CO 80220 USA.
- PLAINS** (Sask., Man., ND, SD, NE, KS): Ron A. ROYER, Division of Science, Minot State University, Minot ND 58701 USA.
- SOUTH CENTRAL** (OK, TX, AR, LA): Ed KNUDSON, 804 Woodstock, Bellaire, TX 77401 USA.
- ONTARIO/ QUEBEC:** Ross LAYBERRY, 6124 Carp Road RR #2, Kinburn, Ontario, K0A 2H0, CANADA.
- MIDWEST** (MN, WI, MI, IA, MO, IL, IN, OH, KY, WV): Les FERGE, 7119 Hubbard Ave., Middleton, WI 53562 USA.
- SOUTHEAST** (TN, MS, AL, VA, NC, SC, GA, FL, Bermuda) Andy BECK, NDVECC, Box 43, Naval Air Station Jacksonville, FL 32212 USA.
- NORTHEAST** (NF, Labr., Maritimes, New England, NY, PA, NJ, MD, DE, DC): Dave WINTER, 257 Common St. Dedham, MA 02026 USA.
- HAWAII/ PACIFIC ISLANDS:** J. C. E. RIOTTE, Dept. of Entomology, Bernice P. Bishop Museum, P.O. Box 19000-A, Honolulu, HI 96817 USA.
- NORTHERN NEOTROPICS** (Mexico, Cent. Am., Antilles): Eduardo WELLING M., Apartado Postal 701, Merida, Yucatan, MEXICO.
- SOUTH AMERICA:** Boyce DRUMMOND, Natura Perspectives, P.O. Box 9061, Woodland Park, CO 80866 USA.

EDITOR'S NOTE: It frequently takes first class mail 3 to 4 weeks for delivery in Canada, so mail your Canadian records early with this in mind. The same is true for mail to reach the U.S. from Canada so give the Canadian based coordinators plenty of time. It takes over a week for mail to reach Mexico also. Also, note that the deadline for material to be in the hands of the coordinators is Jan. 5th and material received by them after this date is apt to be left out of the reports altogether.

## DONATIONS OF JOURNAL OF RESEARCH ON THE LEPIDOPTERA

Donations of back issues to soft currency institutions is progressing slowly. Our offer to donate about 40 all but complete sets of back volumes of the Journal of Research on the Lepidoptera to institutions of higher learning, research stations, and museums in countries that do not have dollar resources has moved along through the generosity of several individuals and one organization. Our offer is contingent on donations of \$50.00 per set to cover the cost of overseas surface mailing. The intent is to make the material available where it is most needed and to look to the more fortunate to make the investment so the less fortunate can receive the intellectual benefits of the JRL.

We would like to hear your recommendations for appropriate institutions to gift JRL sets to as mailing resources become available. Thus far we have sent sets to five institutions on three continents.

Please contact the Lepidoptera Research Foundation, 9620 Heather Road, Beverly Hills, CA 90210, USA.

## PROGRESS IN DESIGNATING MONARCH BUTTERFLY AS THE NATIONAL INSECT

A joint resolution, H. J. Res 411, has been introduced in congress by Congressman Leon Panetta of Santa Cruz, California, designating the monarch butterfly as the national insect. Members of the Society who are in agreement with this promotion should write to their congressmen and senators immediately urging them to support this resolution, and in fact to become co-sponsors of it. We need to act now, before Congress adjourns for the year. For further information, contact Douglas W. S. Sutherland, Chairman, National Insect Subcommittee, Entomological Society of America, 9301 Annapolis Rd., Lanham, Maryland 20706-3115 or phone (703) 557-2224, days, or (301) 345-6119, evenings.

## MUSEUM RESOURCES AVAILABLE

I wish to let readers know of a new museum resource available in the Southeast USA. With much help from contributors, Furman University has assembled a modest but well organized collection of North American butterflies. By the time this is published, over 300 species and many subspecies will be available for study. All are fully documented and this information is entered into a versatile database management system. The collection is more representative of species from eastern USA, Great Lakes region, upper Great Basin, Rocky Mountains, California, and Ontario. Although Furman is a private university, the collection was built to be used: I will be happy to provide access to any interested lepidopterists. And, of course, I will gratefully entertain offers of contribution and trades. John A. Snyder, Professor of Biology, Department of Biology, Furman University, Greenville, SC 29613.

## MORE COLOR ILLUSTRATIONS IN THE JOURNAL

The response of the membership to the two pages of color photographs that appeared in the most recent issue of the JOURNAL (volume 44:1, 1990) has been overwhelmingly positive. The Executive Council of the Society has endorsed the use of more color in the JOURNAL by authorizing the editor to lower the page charges for appropriate color illustrations. Thus, I encourage all prospective authors to consider illustrating their papers with color photographs and am pleased to announce that Society subsidy of appropriate color illustrations has been increased to 50%. This means that an author's cost is \$400 per page (out of a total cost of about \$800). For an instruction sheet that describes submission requirements and other matters pertaining to color illustrations, write or call the editor: Boyce A. Drummond, Editor, JOURNAL of the Lepidopterists' Society, P.O. Box 9061, Woodland Park, CO 80866-9061, phone (719) 687-6596

## TEMPORARY POSITION DESIRED IN USA

I have been requested to help a 40 year old Eastern European entomologist, currently living in Czechoslovakia, holder of a Ph.D. in biology, with extensive editorial, curatorial and research experience, to locate temporary employment (6-12 month duration) in any capacity in the United States. Preferable in the Entomological department of a museum or other entomological setting. Modest salary requirements. For more information, in the United States please contact: George O. Krizek, M.D., 2111 Bancroft Place, N.W., Washington, DC 20008. Telephone (202) 234-2401.

## ICZN

The following opinion was published on June 29, 1990 in Vol. 47, Part 2 of the Bulletin of Zoological Nomenclature.

Opinion  
1599 Papilio carthami Hübner, [1813] and Syrichthys serratulae major Staudinger, 1879 (currently both in Pyrgus; Insecta, Lepidoptera): the specific names carthami and major conserved.

## 1989 TREASURER'S REPORT

1.	Beginning Balance		\$93,375.52
2.	INCOME for 1989		
	Member Dues	32,293.06	
	Institutional Subscriptions	4,520.00	
	Air Mail	870.00	
	Late Fees	138.00	
	Interest Earned	6,756.54	
	Undesignated Gift	335.00	
	Color Illustrations Fund Gift	330.00	
	Publications Fund Gift	66.00	
	Sale of Memoirs/Commemoratives	1,851.48	
	Sale of Back Issues	2,707.50	
	Page Charges, Vol. 41	120.00	
	Vol. 42	985.00	
	Vol. 43	2,605.65	3,710.65
	Mailing List Rental	1,264.53	
	New Life Members	1,000.00	
	"Bill" Tilden Memorial Fund	650.00	
	Miscellaneous Income	21.00	
	Total		56,513.76
3.	EXPENSES for 1989		
	NEWS (#6, 1988; #1-#5, 1989)	12,654.50	
	JOURNAL [Vol 43(1-3)]	22,079.25	
	Printing	341.82	
	Postage	1,509.63	
	Back Issue Handling	736.09	
	Treasurer	174.87	
	Secretary	790.83	
	Assistant Secretary	88.25	
	JOURNAL Editor	1,750.93	
	NEWS Editor	1,398.90	
	Bank Service Charges	304.50	
	Memoir #3	3,052.00	
	Miscellaneous Expenses	198.00	
	Total	45,079.57	
	ENDING BALANCE		104,809.71
4.	Distribution of Cash Assets		
	Petty Cash Fund	100.00	
	Checking Account @4.5%	59,709.71	
	CD: 12 mos @8.55%	20,000.00	
	CD: 12 mos @10.05%	25,000.00	
	Total	104,809.71	

For comparison, the 1988 figures may be found in NEWS #5, 1989 on page 69.

James Tuttle, Treasurer

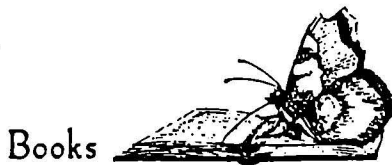
**ATTENTION ARTISTS AND PHOTOGRAPHERS:  
WE STILL WANT YOUR DRAWINGS AND PHOTOGRAPHS**

Don't forget that the JOURNAL is an excellent outlet for your artistic expression. COVER ILLUSTRATIONS and FEATURE PHOTOGRAPHS are two recently established submission categories that provide an opportunity for you to publish your drawings and photographs (black and white or color) in an international publication devoted to Lepidoptera. Submissions in both categories may deal with any aspect of Lepidoptera study but must be accompanied by brief captions that include scientific names.

COVER ILLUSTRATIONS now change with each issue of the JOURNAL. Recent covers serve as good examples, but the range of potential subject matter is much greater than the adults or larvae usually depicted. Submissions should be no larger than letter size (21 by 28 cm), with the caption for the inside front cover on a separate sheet. Drawings are usually more suitable than photographs because drawings better withstand the coarse reproduction necessitated by the textured surface of the JOURNAL's cover stock. Submitted drawings or crisp photographs will be selected for artistry, novelty, and general appeal. There is no limit to the number of submissions per person. No author page charges are assessed for cover illustrations.

FEATURE PHOTOGRAPHS have been published in the first three issues of Volume 43 (1989) of the JOURNAL and in an expanded format in the first issue of Volume 44 (1990), which included both black and white and color illustrations. Submissions in this category might show unusual behaviors, unusual habitats, type localities, specimens in nature illustrating identifying marks, unusual collecting conditions or techniques, or other subjects. Photographic submissions should be mounted on white cardboard no larger than letter size, with a brief caption on a separate sheet. The caption should include details of the photographic equipment and exposure used as well as information on the subject portrayed. Feature photographs must be suitable for reduction to either a half or full JOURNAL page (8.5 cm high by 11 cm wide, or 17 cm high by 11 cm wide, caption included). Submissions will be selected for photographic quality, scientific merit, and general appeal. Regular page charges will apply to accepted feature photographs. Color photographs are welcome, with author page charges for a full page currently running about \$800. As with black and white photographs, color feature photographs must be submitted as mounted color prints, not as transparencies (for submission details, contact the editor).

Submissions in both of these artistic categories should be sent to the JOURNAL Editor: Boyce A. Drummond, Natural Perspectives, P.O. Box 9061, Woodland Park, CO 80866-9061



Books

**NEW PUBLICATION PLANNED**

THE BUTTERFLIES OF BAJA CALIFORNIA by John Brown, Herman Real and David Faulkner is in preparation for publication. The book will be laminate paper bound, 8 x 11 inch format of about 150 pages, including 8 color plates illustrating all 178 species, approximately life size. Dot maps for each species are given as part of each description. An in depth discussion of biogeography with comments on conservation is included. The book will be published Jan. 1, 1991 given sufficient advance sale. \$24.00 regular price, Advance sale to members of the Lepidoptera Research Foundation \$20.00 including P/P. Payment must be made prior to October 1, 1990. In the event the book is not published, payment will be promptly refunded. To order, contact The Lepidoptera Research Foundation, 9620 Heather Rd, Beverly Hills, California 90210 USA or phone (213) 274-1052.

**BOOKS FOR SALE**

I am selling a complete library of books and journals (over 300 volumes) dealing with butterflies and moths from the United States and other countries, especially Africa. The books, old and new, are in very good condition. For a complete listing, send a self addressed stamped business sized (#10) envelope (SASE) with 45¢ postage to: Eric H. Metzler, 1241 Kindale Sq. N., Columbus, Ohio 43229-1306. Inquiries (with SASE) about individual items are welcome.

**RECENTLY PUBLISHED BOOKS**

Brusca, Richard C. & Gary J. Brusca. 1990. Invertebrates. (Illustrations by Nancy J. Haver). Sinauer Associates, Inc., Sunderland, Massachusetts 01375. 922 pages. \$44.00.

Common, I. F. B. 1990. Moths of Australia. Melbourne University Press, P.O. Box 278, Carlton South, Victoria, Australia 3053. 544 pp., 32 color plates. \$125 (Australian). Distributed by Apollo Books, Lundbyvej 36, DK 5700 Svendborg, Denmark.

Kudrna, Otakar (Ed.). 1990. Butterflies of Europe, Vol. 2. Introduction to Lepidopterology. AULA-Verlag GmbH, Postfach 1366, D-6200 Wiesbaden, Federal Republic of Germany. (length and price not yet known)

Larsen, Torben B. 1990. The Butterflies of Egypt. The American University in Cairo Press (Egypt); available elsewhere from Apollo Books, Lundbyvej 36, DL-5700 Svendborg, Denmark. 112 pp., 8 color plates. DK 240 + postage.

Neunzig, H. H. 1990. Pyraloidea, Pyralidae (part) in Dominick, R. B. et al., The Moths of America North of Mexico, fascicle 15.3. E. W. Classey and the Wedge Entomological Research Foundation (% National Museum of Natural History, MRC-127, Washington, DC 20560). 165 pp., 5 color plates. \$55.00 + \$2.00 S&H.

Peigler, Richard S. 1989. A Revision of the Indo-Australian genus *Attacus*. Lepidoptera Research Foundation, 9620 Heather Road, Beverly Hills, California 90210. Softcover, 167 pp., 4 color plates. \$30.00 postpaid.

Pinratana, Amnuay & Rudolf E. J. Lampe. 1990. Moths of Thailand, Volume 1: Saturniidae. Brothers of St. Gabriel, St. Gabriel's College, Bangkok 10300, Thailand. 47 pp., 44 color plates. \$22 U.S. (postpaid)

**BOOK REVIEW**

Behavior-Modifying Chemicals for Insect Management (Application of Pheromones and Other Attractants), Edited by Richard L. Ridgeway, Robert M. Silverstein and May N. Inscoe. 1990. Marcel Dekker, Inc., Cismarron Road, Monticello, NY 12701. xvi plus 761 pp. Many charts, diagrams, graphs. Hard cover, 6 1/4 x 9 1/4 in., ISBN0-8247-8156-2, \$195.00 (U.S. and Canada) or \$234.00 (all other countries).

The 7 parts and 39 articles provide comprehensive coverage of the subject of pheromones for insect control. No new work is presented here, but this is indeed a basic reference on studies and efforts to date, collected in one compact volume.

This book begins with a review of research and development principles for behavior-modifying chemicals, their chemistry and delivery systems. Case studies follow of current and potential use against various types of insect pests of field, forest, and stored products. Regulatory matters are discussed, including registration procedures in the United States. The concluding part has commercial development descriptions, availability of chemicals, and future potentials. Each article has its own extensive bibliography. An appendix lists commercial suppliers needed for pheromone research or production.

Ron Leuschner



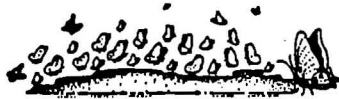
## Research Notices

● WANTED: Information on the population boom of the Red Admiral (*Vanessa atalanta*) in 1990. Interested in dates, places, observations on hosts, survival, parasitization, etc. Arthur M. Shapiro, Dept. of Zoology, U.C. Davis, Davis, CA 95616.

● WANTED: INFORMATION ON ALBERTA BUTTERFLIES. For the past 10 years I have been actively engaged in an ongoing documentation of Alberta butterflies and skippers that was originally begun by C. D. Bird in the 1970's. Detailed distribution maps have been prepared and are updated annually. Phenological analysis is underway.

To make the story as complete as possible I am soliciting information on Alberta butterflies from non-resident collectors and museum curators that may have Alberta material lurking in their collections. Minimum required information is species, collectors, date and location. Information on abundance, behavior, habitat, etc. is desirable. Please be as specific as possible about locations because the distribution maps are based on the 6 mile by 6 mile Alberta Township Survey grid.

The information resulting from this project is normally made available to researchers on request. If you want all or part of your information to be kept confidential, please indicate so when sending the information. Please send information to Norbert Kondla, 6415 95 Avenue, Edmonton, Alberta T6B 1A6, Canada.



## Forthcoming Meetings

### LEPIDOPTERISTS' SOCIETY 42ND ANNUAL MEETING AUGUST 1-4, 1991, TUCSON, ARIZONA

Mark your calendars now and plan to attend the 1991 Lepidopterists' Society 42nd Annual Meeting in Tucson, Arizona. Our hosts will be Sonoran Arthropod Studies, Inc. and the University of Arizona's Department of Entomology.

Madera, Garden and Guadalupe Canyons are but a few of the well known "hot spots" in the island biogeography of the Sonoran Desert in southeastern Arizona. Pre- and post-conference trips to these and other rich areas, plus exciting symposia on their lepidoptera are being planned.

The meetings will be held at the Quality Inn University where rooms have been reserved for us at very reasonable rates. Registration forms and more information on the Meeting will appear in the January NEWS but mark your calendar now for a super meeting in one of the most exciting areas in the United States: the Sonoran Desert.

For more information contact Steve Prchal, c/o SASI, P.O. Box 5624, Tucson, AZ 85703. Phone (602) 883-3945.

### 2ND INTERNATIONAL WORKSHOP ON LOWER LEPIDOPTERA

The 2nd International Workshop on Lower Lepidoptera will be held 22-25 March 1991 in Canberra, Australia. The program will include a series of review papers and short research reports. Contributions will include taxonomy, phylogeny and classification, biogeography, morphology and anatomy, ultrastructure, molecular taxonomy, general biology, palaeontology and systematic methodology. The meeting will take place at the CSIRO Division of Entomology which also houses the Australian National Insect Collection. An account of the first meeting in this series is given in

*Antenna* 14(2): 84-85 (1990) by N. P. Kristensen. The registration fee will be approx. A\$100 and reasonably priced accommodations will be provided.

Canberra is Australia's national capital. It is a centre for biological research and the city is known as a garden city, situated near pioneer towns, vast forests and mountains. Further afield are small pockets of temperate rainforest and the Pacific coast. Anyone wishing to receive further information and to offer contributions to this meeting, should write to: Ebbe S. Nielsen, CSIRO Entomology, GPO Box 1700, Canberra ACT 2601, Australia; telephone (06) 246 4258; fax (06) 246 4264.

### THIRD PEDAGOGICAL EXHIBITION AND INTERNATIONAL TRADE FAIR OF PARIS, 1990

The Third Pedagogical Exhibition and International Trade Fair of Paris will be held late this fall at the Marie of Paris, 14th district (townhouse), 26 Mouton Duvernet Street, Paris, FRANCE. The Pedagogical Exhibition includes 90 boards and is reserved on Thursday, November 29 and Friday, November 30 for schools and teachers, with free admission. The International Trade Fair will have both foreign and French exhibitors and will feature sales and exchanges from 10 a.m. until 7 p.m. on Saturday, December 1 and Sunday, December 2. Entrance fee is 25 F with children under 12 years old admitted free. For further information, list of hotels, exhibition hall plan, etc., contact: FRANCE ENTOMOLOGIE, 18 Sente des Châtaigniers, F.92380 Garches, FRANCE.

## New Members



AIELLO, ANNETTE: Smithsonian Tropical Research Institute, APO Miami, FL 34002-0011.

ALAN, KEITH: 226 East Elmwood Avenue, #P, Burbank, CA 91502-1512.

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GRABBER, DAN: 1 Station Road, Millinocket, ME 04462.

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 ROBINSON, BETH: 501 Mackey Avenue, Belford, NJ 07718.  
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 LAWRIE, DAVID D.: 49 Strabane Place SW, Calgary, Alberta T3H 1H6, CANADA.  
 LAYRON, LEODEGARIO: c/o Mogpog Post Office, Mogpog, Marinduque 4901, PHILIPPINES.  
 LAZAROFF, JERRY: 706 South Bishop, #C, Rolla, MO 65401.  
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 RICE, THOMAS J.: 1231 Pearce, Wichita, KS 67203.  
 RICE, VIRGINIA: 2324 Brahms Drive, Dayton, OH 45449.  
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 SCHARNBERG, ERIC C.: 73 Bodine Road, Malvern, PA 19355.  
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 SMIDANSKY, ERIC D.: 2192 North Oak Lane, State College, PA 16803.  
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 SPENCER, LORI: 207 Danes West, Central University of Iowa, Pella, IA 50219.

CORRECTION: In list of New Members in 1990 NEWS 3: 54 correct the spelling of Keven Reed's first name.

## Address Changes



ADAMS, JAMES K.: 1702 Crow Valley Road, #214, Dalton, GA 30720.  
 ARTHUR, WILLIAM E.: P.O. Box 568, Westmont, IL 60559-0568.  
 BENTON, MICHAEL R.: 2911 N.W. 41st Place, Gainesville, FL 32606.  
 BRINKMAN, BARTON B.: 11737 North Washington, #1305, Northglenn, CO 80233-1924.  
 BURGESS, KATHRYN HOY: Dept. of Ecology & Evolutionary Biology, Biological Sciences-East, University of Arizona, Tucson, AZ 85718.  
 COLEMAN, RAYMOND E.: 4830 St. Hedwig, Detroit, MI 48210.  
 CRABO, LARS G.: 4002 34th Avenue West, Seattle, WA 98199-1630.  
 CRNJAR, ROBERTO (Dr.): Fisiologia Generale, Viale Poetto 1, I-09126 Cagliari, ITALY.  
 ETHERIDGE, MARK: 9422 Fairleigh Court, Burke, VA 22015-1504.

## The Market Place

Buy • Sell • Exchange • Wants



Items submitted for inclusion in this section are dealt with in the manner set forth on page 10 of the Jan/Feb 1990 NEWS. Please note that in keeping with the guidelines of the Society, henceforth no mention of any species on any threatened or endangered species list will be accepted in these items. This will include all Ornithopterans now and for the foreseeable future. Items will be accepted from members only and will be printed only once unless entry in the maximum of two successive issues is requested. Please keep items short. A maximum of 100 words is allowed. SASE in an ad stands for self addressed stamped envelope.

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

WANTED: Papered specimens of the following—Hemileuca and other Saturniids, Parnassius of the world, Speyeria and Oeneis, and also Beetles. Cash or exchange. Elmer L. Griepentrog, Elsie Rt., Box 740, Seaside, Oregon 97138.

FOR EXCHANGE OR SALE: I expect to obtain from the Grande Comore (Comoro Islands) a few Graphium levasorri, P. dardanus humbloti, and P. aristophontes. I also expect some mixed small butterflies and beetles. Want-lists for these items solicited, but for non-papilio species I require photocopies of pictures of the species you require. M.A. Cranston, P.O. Box 432, Seekonk, Mass. 02771.

WANTED TO PHOTO FOR BOOK: Live ova/larvae/pupae of Lepis. from other areas. Most wanted: Papilios, Parnassius, Pierids, Nymphalidae: (Fritillaries esp. S. diana and idalia, Anaea sp., Marpesia petreus, Admirals, A. predowii, Hypol. missippus, Anartia latrophae, Angle wings, Eunica, Lycaenids, Hel. julia, Sphingids, Thysanis zenobia, Ascal. odorata, Saturniids and more, live Brown Recluse Spider, and interesting insects, etc. I'll buy, trade, or send slides as available. Send your lists. I'll send mine. David Liebman, 981 S. Quail Street, Norfolk, Virginia 23513. Phone (804) 853-4722.

WANTED: Communication with persons who have attempted to cold store live pupae and ova for long terms. My purpose is to accumulate large numbers of livestock for later sale when I might have enough to make a large sale. What species adapt to long term storage? Contact Kenneth R. Knight, 433 Brady N.W., Comstock Park, Michigan 49321 or phone (616) 784-6243.

FOR SALE: Bernard D'Abrera's Butterflies of the World: Australian Region (1st ed., spine slightly loose) \$250; Afrotropical Region \$250; Oriental Region (I, II, III) \$400/set; Neotropical Region (I, II) \$100 ea. All in excellent condition unless noted otherwise; dj; all prices include postage. James M. Loughlin, Carnegie Museum of Natural History, Pittsburgh, PA 15213. Telephone (412) 622-3255.

WANTED: I wish to purchase living pupae of the following species and have some contacts to subtropical Saturniidae such as A. mittrei for those who are interested. I want H. cecropia, H. euryalus, H. columbia, H. gloveri, H. rubru, A. luna, A. selene, C. promethea, C. angulifera, C. regalis, E. imperialis, E. magnifica, S. cynthia walkeri, Brahmaea wallichi and any of the Rothchildia family of America. James G. McKeithan, Jr., 922 Homlock Ave, Wilmington, North Carolina 28403.

FOR SALE: Atrophaneura dasarada and Atrophaneura latreillei. All the specimens are from India. For information contact Vincent Thomas Fornieri, 1308 "C" Street, Elmont, New York 11003. My phone number is (516) 488-7726. Please call between 7pm and 9pm, Eastern time, Monday through Saturday.

WANTED: A copy of Dornfeld's 1980 book on the butterflies of Oregon. Please contact: Bob Robbins, Entomology, NHB Stop 127, Smithsonian Institution, Washington, DC 20560 USA, telephone (202) 357-2353.

OFFER EUROPEAN SPECIES FOR SALE OR EXCHANGE: Sphingidae— Dellephila elpenor, Mimas tillaie; Lymantridae— Lymantria dispar, Dasychira pudibunda, Orgyia antiqua; Arctiidae— Tyria jacobaeae, Diacrisia sannio, Spilosoma luteum; Nymphalidae— Vanessa atalanta, Araschnia levana, Inachis io, Polygona c-album, Aglais urticae, and others. All live material only. Send SASE to: Drs. W. De Rover, Kampheidelaan 19, 2300 Turnhout, BELGIUM.

WANTED TO BUY: Specimens of, or livestock of Sphinx moths, especially USA including but not limited to Abbot's, Nessus, Big Poplar, Achemon, Pandorus, and all clearwing species. Also BOOKS with color plates of Sphinx and silk moths of the world. Paul Bradshaw, Rt. 5, Box 519C, Springdale, AR 72764.

AVAILABLE FROM AUTHOR: Peterson Field Guide series, A Field Guide to the Moths of Eastern North America (1984), with errata sheet. Paperback, \$12 postpaid in US and Canada, \$15 outside; Casebound, \$17 postpaid in US and Canada, \$20 outside. Charles V. Covell Jr., Biology Dept., University of Louisville, Louisville KY 40209, USA.

WANTED: To get specimens of some of the rarer or hard-to-get USA Hesperilidae. Interested in all USA genera. Specimens need not be 1-A. Full data necessary. I would like to know what surplus specimens you have, and what you would want for them. John Holoyda, 5407 N. Oketo Ave., Chicago, Illinois 60656.

FOR SALE: Pupae of H. cecropia, A. luna, S. cynthia, E. imperialis, C. regalis, and others. Send a SASE to Jeff Frey, 364 Oaklyn Rd., Lebanon, PA 17042, or phone (717) 272-6597.

FOR SALE: Cocoons of A. luna, A. lo, C. promethea and probably A. pernyi. Papered adults also available. SASE for prices to: Larry J. Kopp, R.D. 1, Box 30, Klingerstown, PA 17941.

#### MEMBERS' COMMERCIAL NOTICES.....

THOMAS GREAGER, R.D. #6, Box 56-B, Greensburg, PA 15601, USA. FOR SALE: WORLDWIDE BUTTERFLIES in all families. Also some moths, beetles, and other insects. Finest quality specimens with complete data. Satisfaction guaranteed. Good prices. ALSO FOR SALE: INSECT PINS— Imperial, Elephant, and Stainless Steel in all sizes. United States residents send SASE to begin free price list subscription. Foreign residents send US\$5.00 for a one year price list subscription.

J. M. CHAVEZ, 1015 No. El Centro Ave., Hollywood, Calif. 90038. Finest quality lepidoptera specializing in South American species, with full collecting data; for collections, educational, art. Good prices. List \$1.00. ALSO WANTED: Contacts with serious dealers from BRAZIL, BOLIVIA, ECUADOR, COLOMBIA and CENTRAL AMERICA. I am interested in all families of butterflies.

MARIO ROJAS VILLEGAS, Apartado 119, Tingo Maria, PERU. Butterflies from Tingo Maria (Huallaga Central) and Cuzco (Madre de Dios). We sell in April, May and June. We also welcome visitors wishing to make collecting trips into the Jungles of Rondos, Intl, and Huallaga Central. The collecting seasons are April, May, June (good) and November, December. Butterflies FOR SALE are papered and in A-1 condition with reduced prices for large, mixed lots. Many Morpho, Agrias, Prepona, Caligo, Papilio, Graphium and general assortments of Nymphalidae and Satyridae are available. Write for more information on species and prices, and costs of field trips.

IANNI BUTTERFLY ENTERPRISES, P.O. Box 81171, Cleveland, Ohio 44181, U.S.A. Phone: (216) 888-2310. Worldwide unmounted butterflies, moths and beetles with data, in all price ranges. Superior quality, double boxed for shipping safety. Personalized service to all - including new collectors! We specialize in Papilio, Morpho and Heliconius. ALSO, excellent quality insect mounting pins including standard black, stainless steel, and Elephant at the BEST prices. Send \$5.00 for one year price list subscription.

TRANSWORLD BUTTERFLY COMPANY, Apartado 6951, 100L San Jose, COSTA RICA, Central America. Serving Lepidopterists worldwide since 1976. LATEST 12-PAGE ILLUSTRATED CATALOG includes Neotropical, African, Palearctic and Indo-Australian butterflies. Specialist listings of Papilionidae, Morphidae, and Brassolidae. Many seldom offered species! Books and more. WE OPERATE PERSONALIZED ENTOMOLOGICAL, NATURALIST, BIRDING TOUR PROGRAMS. Latest catalog \$1 or one year's monthly lists via airmail \$6.

I. R. WILLEM, P.O. Box 1625, Margate 4275, SOUTH AFRICA. FOR SALE: Largest selection of South African beetles, including Hypselogenia geotrupina, Eudicella uthalia natalensis, Amaurodes passerini rufotibialis, Anthia sp., Julodis, Mantichora sp. Also the multicoloured rainbow grasshopper, Maphyetus leprosus. Also butterflies: Charaxes druceanus cinadon, ethalion and other rare material on special request.

MIGUEL SERRANO, TROPICAL BUTTERFLIES OF AMERICA, 6823 Rosemary Drive, Tampa, Florida 33625, USA. Rare and beautiful butterflies from Central and South America including bred Papilio, Anaea, etc. Many Morpho, Brassolidae, Agrias and some Indonesian material as well. Lists \$1.

SOUTH DENE SDN. BHD., P.O. Box 10139, 50704 Kuala Lumpur, Malaysia, Fax 603-4222267. Offer Holloway's The Moths of Borneo, all published so far, Parts 1, 4, 6, 12, 14 at US\$18 per copy, Pt. 3 and Barlow's Introduction to the Moths of S.E. Asia at US\$25 per copy to include P/P surface mail.