

NEWS

of the LEPIDOPTERISTS' SOCIETY

No. 5 Sept/Oct 1989

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| 5. Ron A. Royer | | |

ALBUQUERQUE 1989

The 40th Annual Meeting of the Lepidopterists' Society and 36th Annual Meeting of the Pacific Slope Section convened Thursday, July 27, 1989 at the University of New Mexico under the able leadership of Richard Holland and Gloria Caprisecca. An example of the excellence of Dick's planning was evident in the quality and organization of the printed program, produced by Theresa Romero. The beautiful *Sandia mcfarlandi* logo by Beth Dennis, emblazoned on pre-meeting correspondence, badges, T-shirts and printed programs, gave a unique local touch. Steve Cary's collecting site atlas, mailed early to pre-meeting registrants, was of great value to those planning regional collecting.

It is clear that the public at large has a blurred image of the etymology of the word "lepidoptera". The Holiday Inn, site of the annual banquet, welcomed the Lepidopterists, while the room reservations at the Hokona Hall dorm were filed under "Lepidopterous" Society, possibly in reference to some select group enamored of the 29 fossil butterflies so far known to man!

Most of the 100 registrants at the meeting were spared the rigors of the Executive Council Meeting, deftly chaired by President Julian Donahue. Sixteen of the 24 Council members were able to attend on Thursday afternoon.

An open house Thursday evening drew a large crowd to the home of Dick Holland and Gloria Caprisecca, where Dick's collection was reviewed by those interested, and all enjoyed an elaborate spread of food and drink.

The formal presentations of papers ran through the full days of Friday and Saturday, as well as Sunday a.m. While the sessions were well attended, evening conversations suggested that some of the registrants had been off in the mountains studying nature, not books.

Friday evening took us back to Gloria and Dick's home for an outstanding barbecue. The ensuing slide show covered a broad range of topics, most weighty of which was Tom Kral's heroic attempt to shoot down a species of *Oeneis*. Young Eric Caprisecca performed the duties of slide-changer with scarcely a glitch. Larry Gall's demonstration of his Macintosh *Catocala* computer mapping program was of great interest to the data compilers.

The Saturday night banquet was presided over by Vice President Ron Leuschner. President Julian Donahue had been forced to leave the meeting the previous day because of a family emergency. On behalf of The Pacific Slope section, Jerry Powell presented the Comstock Award for the best student paper to Adam Porter, while The Man We Honor tribute was given to pioneer California Microlepidopterist H. H. Keifer. Lee Miller presented the Jordan Medal to joint recipients (a Lep. Soc. first) Richard I. Vane-Wright and Phillip Ackery for their integration of biologic data into systematic studies culminating in the imposing taxonomic revision of the Danaiidae, the book "Milkweed Butterflies". The recipients then delivered a learned address entitled "Of

Stone Kings and Things, Confessions of Two Taxonomists," on certain aspects of Danaid speciation, fleshed out with peripheral observations of a lighter vein (? Vane-).

Charlie Covell's door-prize bonanza was more copious than ever, thanks to the generosity of many members and our several commercial sponsors. Prize-winning numbers were selected alternately by Eric Caprisecca and Marisa Davis. It is indeed curious that every member of Marisa's family (and even Charlie Covell) won a prize, but we all know that chance is totally unbiased.

Most moving presentation of the meeting was David Wagner's brief biography of the late Alexander Barrett (Bill) Klots, who had, through his writings, done more to stimulate general interest in lepidoptera than any other member of the Society. He was brought to life for those of us who had not had the privilege of knowing him personally.

The meeting formally ended following the annual Business Meeting, after which attendees dispersed, some to their homes, some to field trips in surrounding areas, where success was varied, depending on local conditions and the state of the rains.

Twenty-eight states, including Hawaii, were represented, as were Brazil, England, and Lebanon.

Attendees varied from old-times who rarely miss a meeting, to first-timers making new acquaintances who may become life-long friends. They ranged from (rarely austere) professional types up to the most fundamental amateur collectors and lep-watchers.

Join us in June 1990 in Milwaukee. "Try it — you'll like it!"

Dave Winter

MINUTES OF THE 40TH ANNUAL MEETING OF THE LEPIDOPTERISTS' SOCIETY

University of New Mexico
Albuquerque, New Mexico
July 27 — 30, 1989

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The formal program began at 8:30 a.m. Friday morning in Room 104 of the Education Classroom Building with a Welcome and Announcements by Steven J. Cary of Santa Fe, NM. This was followed by **Session 1, Biogeography of Northwestern Mexico and New Mexico**, with Ron Leuschner presiding. It included the following papers:

BIOGEOGRAPHY OF NEW MEXICAN BUTTERFLIES, Michael E. Toliver, Eureka College, Eureka, IL;

SONORAN ARTHROPOD STUDIES, INC. (SASI), THREE YEARS OLD AND GROWING FAST, Steven J. Prchal, Sonoran Arthropod Studies, Tucson, AZ;

BUTTERFLIES AND SKIPPERS OF SONORA, Douglas D. Mullins, Tucson, AZ.

Attention was called to the poster presentation, POSSIBLE APPLICATIONS OF DNA-DNA HYBRIDIZATION STUDIES TO ISSUES IN LEPIDOPTERAN PHYLOGENY, by Benjamin H. Landing, Woodland Hills, CA, and then there was

a brief coffee break, following which Session 1 continued with 2 more papers:

BAJA CALIFORNIA BUTTERFLIES: A BIOGEOGRAPHIC SCENARIO, John W. Brown, Smithsonian Institution, Washington, DC;

BIOGEOGRAPHICAL REGIONS OF SONORA, MEXICO, Michael J. Smith, Citrus Heights, CA.

Session 2, The Genus Catocala, with Larry Gall as organizer and presiding, followed with only two papers:

MOTH MIGRATION, CATOCALA STYLE, Douglas C. Ferguson, U.S. National Museum, Washington, DC; and

TAXONOMIC DECISION-MAKING IN WESTERN SALICACEAE-FEEDING UNDERWING MOTHS, David C. Hawks, University of California, Riverside, CA.

We then gathered outside for The Group Photograph, followed by a lunch break, and the afternoon sessions began at 1:45 p.m. with **Session 3, Endangered Species and Environment Modification** with Christopher D. Nagano presiding, including 2 papers:

ECOLOGY OF OAK AND CHESTNUT LEPIDOPTERA (INVITED), Paul A. Opler, U.S. Fish and Wildlife Services, Fort Collins, CO;

INSECT CONSERVATION IN CALIFORNIA: A FEDERAL PERSPECTIVE, Christopher D. Nagano, U.S. Fish and Wildlife Service, Sacramento, CA.

Session 4, Everything You Wanted to Know About Monarchs (But Were Afraid to Ask) with Christopher Nagano again presiding had 5 papers, interrupted by a coffee break:

IS DOGBANE A HOSTPLANT OF THE MONARCH BUTTERFLY, DANAUS PLEXIPPUS?, Susan Sullivan Borkin, Milwaukee Public Museum, Milwaukee, WI;

HAIRPENCIL CHEMICALS, MILKWEED BUTTERFLY CLADISTICS & EVOLUTION — WHAT ARE THE QUESTIONS?, R. I. Vane-Wright, British Museum (Natural History) and M. Boppre, University of Freiburg, West Germany;

WIND, A KEY ENVIRONMENTAL FACTOR ASSOCIATED WITH THE MONARCH BUTTERFLY OVERWINTERING HABITAT, K. L. H. Leong, Cal. Poly University, San Luis Obispo, CA;

NOTES ON MONARCH BUTTERFLY (DANAUS PLEXIPPUS) WINTERING ECOLOGY IN THE SANTA MONICA MOUNTAINS OF SOUTHERN CALIFORNIA, Walter H. Sakai, Santa Monica College, Santa Monica, CA and Christopher D. Nagano, U.S. Fish and Wildlife Service, Sacramento, CA;

A NEW EARLY RECORD OF THE MONARCH BUTTERFLY [DANAUS PLEXIPPUS (L.): DANAIDAE] IN CALIFORNIA, John Lane, Santa Cruz City Museum and Julian P. Donahue, Los Angeles County Museum of Natural History.

A short informal discussion preceded the final paper of the afternoon on:

THE ASSOCIATION FOR TROPICAL LEPIDOPTERA AND THE ATLAS OF NORTH AMERICAN LEPIDOPTERA, John B. Heppner, Florida Dept. of Agriculture, Gainesville, FL and Thomas C. Emmel, University of Florida, Gainesville, FL.

Announcements were made about The Field Trips and Shopping Excursions before adjournment for the Barbecue and Slide Fest.

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Saturday morning, **Session 5, Revisions and Descriptions**, began at 8:30 with Jacqueline Y. Miller presiding. There were 8 papers, interrupted by a coffee break, before lunch: **AMBLYSCIRTES: PROBLEMS WITH SPECIES, SPECIES GROUPS, LIMITS OF THE GENUS, AND GENUS GROUPS BEYOND (HESPERIIDAE)**, John M. Burns, Smithsonian Institution, Washington, D.C.;

FURTHER ADVENTURES WITH WEST INDIAN HESPERIIDAE: A REEVALUATION OF THE GENUS RHINTON, Jacqueline Y. Miller and Lee D. Miller, Allyn Museum, Sarasota, FL;

MOLECULAR PHYLOGENY OF THE HIGHER DITRYZIA: PRELIMINARY RESULTS, Tim Friedlander and Dorothy Pashley, Louisiana State University, Baton Rouge, LA;

REVISION OF EUNICA (NYMPHALIDAE) AND CRITERIA FOR DIAGNOSING SPECIES AND SUBSPECIES IN EURYTELINAE, Dale W. Jenkins, Allyn Museum, Sarasota, FL;

DOES MITOURA MILLERORUM OCCUR IN NEW MEXICO?, Robert K. Robbins, Smithsonian Institution, Washington, DC;

TWO NEW SUBSPECIES OF CALLOPHRYS APAMA FROM NEW MEXICO & MEXICO, Glenn A. Gorelick, Citrus College, Glendora, CA;

A NEW SPECIES OF COLIAS FROM THE INTERMOUNTAIN REGION, Clifford D. Ferris, University of Wyoming, Laramie, WY;

TESTING NOMINAL SPECIES BOUNDARIES USING GENE FLOW STATISTICS: THE ADMIRAL BUTTERFLIES (LIMENITIS, NYMPHALIDAE) IN WESTERN NORTH AMERICA.

Following lunch, **Session 6, Life Histories, Usual and Unusual**, began with John Lane presiding:

THE EXPERIMENT WITH PROLONGED DIAPAUSE IN PRODOXUS Y-INVENSUS: THE 20TH YEAR CLASS IS THE LARGEST, J. A. Powell, University of California, Berkeley, CA;

LIMACODIDS IN MOTION: BIOLOGY AND ACROBATICS OF SLUG CATERPILLARS, Marc E. Epstein, National Museum of Natural History, Washington, DC;

INFESTATION OF DASYLIRION (LILLIACEAE) BY LARVAE OF DARTIS HOWARDI, HY. EDW. (ARCTIDAE; PERLOCOPIINAE), Gregory S. Forbes, New Mexico State University, Las Cruces, NM;

JUVENILE BIOLOGY AND SYSTEMATICS OF THE AMERICAN KITE SWALLOWTAILS (PAPILIONIDAE: GRAPHIINI), Keith S. Brown Jr, Universidade Estadual de Campinas, Sao Paulo, Brasil;

AN ESTIMATE OF THE NUMBER OF LARVAE IN THE SPRING CATERPILLAR COMMUNITY OF QUERCUS AGRIFOLIA IN AN URBAN SITUATION, J. A. Powell, University of California, Berkeley, CA.

Session 7, Evolution, followed The Coffee Break with Steven J. Cary presiding over the last 5 papers of the afternoon:

DEVELOPMENTAL EFFECTS OF SOME COLOR PATTERN GENES IN HELICONIUS (INVITED), H. F. Nijhout and G. A. Wray, Duke University, Durham, NC and L. E. Gilbert, University of Texas, Austin, TX;

THORNS AMONG THE ROSACEAE-FEEDING CATOCALA, WITH MONA NOTES, Larry F. Gall, Yale University, New Haven, CT;

INTRASPECIFIC SIZE VARIATION IN EASTERN NORTH AMERICAN LEPIDOPTERA, Marc C. Minno, University of Florida, Gainesville, FL;

HOW CYDIA SPECIES GOT THEIR BODY SIZE (TORTRICIDAE), William E. Miller, University of Minnesota, St. Paul, MN;

GEOGRAPHIC DISTRIBUTIONS OF INFERIOR WING SURFACE PATTERNS OF CALICORE AND ALLIED GENERA — ? MIMICRY SYSTEMS, Benjamin H. Landing, Woodland Hills, CA.

Adjournment followed so we could trek to the Holiday Inn for the Attitude Adjustment Hour and the Annual Banquet.

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Sunday morning at 8:30, **Session 8, Distributions** began with Lee D. Miller presiding:

REPRODUCTIVE DIAPAUSE AND SEASONAL MIGRATORY PATTERNS IN THE COSTA RICAN PIERID, EUREMA DAIRA, Boyce A. Drummond, Natural Perspectives, Woodland Park, CO, Thomas C. Emmel, University of Florida, Gainesville, FL, William A. Szelistowski, Universidad de Costa Rica;

WESTERN MOTH ATLAS PROJECT, Paul A. Opler, U.S. Fish and Wildlife Service, Fort Collins, CO;

A COMPARISON OF THE BUTTERFLY FAUNAS OF THE SOUTHERN BAHAMAS; ARE THE BAHAMAS HOMOGENEOUS?, Lee D. Miller, Allyn Museum, Sarasota, FL;

NOTES ON THE MICROLEPIDOPTERA OF KENTUCKY, Charles V. Corell, Jr, University of Louisville, Louisville, Kentucky.

Preceding the Coffee Break was an **In Memoriam** presentation of ALEXANDER (BILL) BARRETT KLOTS by David L. Wagner, University of Connecticut, Storrs, CT.

Session 9, Reproductive Curiosities was presided over by Charles V. Corell, Jr, with the final 4 papers of the meetings: **PARTHENOGENESIS AND VIVIPARITY IN LEPIDOPTERA (INVITED)**, Donald R. Davis, Smithsonian Institution, Washington, DC;

BUTTERFLY CHASTITY BELTS: DO THEY WORK?, Boyce A. Drummond, Natural Perspectives, Woodland Park, CO;

THE MATING SYSTEMS OF PRIMITIVE LEPIDOPTERA, David L. Wagner, University of Connecticut, Storrs, CT;

BUTTERFLIES AND BEEFBURGERS? IN PRAISE OF AN INTERNATIONAL CUISINE!, P. R. Ackery, Natural History

Museum, London, England.

The business meeting immediately followed the final paper.

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MINUTES OF THE ANNUAL BUSINESS MEETING, 1989

The annual business meeting of the Lepidopterists' Society was called to order at 12:20 p.m. in room 104 of the Education Classroom Building, University of New Mexico, in Albuquerque. Approximately forty of the 100 registrants participated.

Vice President Ron Leuschner presided, acting in behalf of President Julian Donahue, who had been called

away by a family emergency. The secretary was directed to write a letter of condolence to Mrs. Kathy Donahue.

The names of 13 members whose deaths had come to the notice of the Society since the last Annual Meeting were read. Their passing was noted with a moment of silence.

Susan Borkin briefly reviewed the plans for the 1990 Annual Meeting, to be held 14-17 June, 1990, in Milwaukee, WI, at the Milwaukee Public Museum.

Jerry Powell reported on the uncrystallized plans for the 1990 Pacific Slope meeting, which might possibly occur in Washington State under the aegis of Bob Pyle.

Treasurer Jim Tuttle briefly summarized the financial status of the Society. During 1988 cash assets increased from \$89,000 to \$93,375, with income of \$49,400 exceeding expenses by over \$4,000.



GROUP PHOTO IDENTIFICATIONS: 1. Michael Prentice, 2. Paul Thompson, 3. Youssef Hashash, 4. Avery Freeman, 5. John Burns, 6. Sarah Burns, 7. Hazel Tilden, 8. Dottie Landing, 9. Boyce Drummond, 10. John Kemner, 11. Bill Miller, 12. Debbie Matthews, 13. Terry Lott, 14. Dave Winter, 15. Jo Brewer Winter, 16. Judy Peterson, 17. Bob Langston, 18. Stephanie McKown, 19. June Preston, 20. J. R. Turner, 21. Viola Stallings, 22. Beulah Turner, 23. John Heppner, 24. Kent Wilson, 25. Dick Holland, 26. Sandra Doyle, 27. J. F. Doyle, 28. Richard C. Rosche, 29. Ray Stanford, 30. Hide Chiba, 31. Don Davis, 32. John Lane, 33. John Hinchliff, 34. John Justice, 35. Doug Mullins, 36. Ray Peterson, 37. Chuck Harp, 38. Charlotte Ferguson, 39. Charlie Covell, 40. Doug Ferguson, 41. Lee Miller, 42. Jacqueline Miller, 43. Mike Smith, 44. Jim Tuttle, 45. Laurence Crabtree, 46. Floyd Preston, 47. Steve Prchal, 48. Jane Ruffin, 49. Ron Flaspohler, 50. Susan Borkin, 51. Walter Zanol, 52. Tim Friedlander, 53. Lynn Friedlander, 54. John Rawlins, 55. Mike Toliver, 56. Marc Minno, 57. Adam Porter, 58. Marc Epstein, 59. Cliff Ferris, 60. John Brown, 61. Fay Karpuleon, 62. K  rolis Bagdonas, 63. Dale Jenkins, 64. Walter Sakai, 65. Tom Emmel, 66. Paul Opler, 67. Greg Forbes, 68. Fred Stehr, 69. Chris Nagano, 70. Bob Robbins, 71. Steve Cary, 72. Paul Milner, 73. Don Harvey, 74. Ann Milner, 75. Dave Hawks, 76. Steve Steinhauser, 77. John Vernon, 78. Ron Leuschner, 79. Dick Vane-Wright, 80. Ben Ziegler, 81. Phil Ackery, 82. Ron Robertson, 83. Fred Nijhout, 84. Carol Nelson, 85. Ron McKown, 86. John Nelson, 87. Ben Landing.

Incoming Secretary Dave Winter expressed thanks to former secretaries Dick Arnold and Julian Donahue for helping make the changeover go smoothly. He solicited suggestions from members regarding improvements in the Society, and offered assistance to members in dealing with any problems related to the Society.

V. P. Ron Leuschner reviewed highlights of the Executive Council meeting:

1. Plans are afoot for use of color plates in JOURNAL articles, on a basis limited by available funds and determined by the JOURNAL Editor.
2. The problem of the cost of dealing with stored back issues of the JOURNAL will be handled by a committee chaired by Publications Coordinator Ron Leuschner; this may include sale of complete (almost!) sets of the JOURNAL by BioQuip, and storage of major excess in Albuquerque under the care of Dick Holland. Unwieldy increase in storage and retrieval costs at Allen Press is the stimulus for change.
3. The compiling of the "Techniques Manual" is being resumed; the possibility of including some videotape supplements is being considered.
4. A standing committee of five persons is to be appointed by President Donahue to determine policies for dealing with Endowments and Awards.
5. Policies were set for handling obituaries and book reviews; these will be coordinated by the editors of the two periodicals.
6. The Nominating Committee, appointed by President Donahue, consists of Bill Miller, Ray Stanford, and Ben Ziegler, Chairman.
7. The year-end ballot will include nominees for two Honorary Life Members.

The Resolutions Committee, Jo Brewer and Jackie Miller, reported, with their usual élan, as follows:

WHEREAS:

Dick Arnold has served as our scribe,
He will always belong to the tribe.
The length of each query
Could make a man bleary,
Which nobody else could survive.

AND WHEREAS:

Dick Holland was Chieftan Supreme.
The meeting went off like a dream!
With Gloria's collusion
The final conclusion:
Albuquerque was top of the cream.

AND WHEREAS:

The little green lep on the cover,
On shirts and on paper did hover.
Beth's artwork unique
Provided mystique:
'Twas art that made everyone love her.

AND WHEREAS:

Steve Cary, who acted as guide,
And helped us to search far and wide
For leps to collect
And places to check
When anyone wanted or tried.

AND WHEREAS:

The conference was managed by Susie.
On the program Theresa was choosey.
Arrangements they made
Were not done by "clade"
And the leps did not dare to go woozy.

AND BE IT RESOLVED THAT:

The land of enchantment was clear,

But the leps have a longing for beer.

So lift up the cup

And save money up:

See you in Milwaukee next year!

There being no old or new business to consider, Ron Leuschner handed over the gavel and the now-traditional deely-bopper (taxonomically redefined as a pheromone dispenser for this unique occasion) to incoming President Jacqueline Y. Miller. Jackie is the first member of the fairer sex to become President of the Society.

Following an announcement requesting that registrants consider contributions to offset deficits incurred because of misunderstandings about certain aspects of the University room and meal package, the meeting was adjourned at about 1 p.m.

Respectfully submitted,

Dave Winter
William D. Winter, Secretary
5 August 1989

KARL JORDAN MEDAL AWARD 1989

For the first time since the initiation of the Karl Jordan Medal in 1973, the Committee recognizes two lepidopterists for their outstanding collaborative contribution to the field, Phillip R. Ackery and Richard I. Vane-Wright.

Phillip R. Ackery was born on 22 October 1946 in Wembley, London, England; married Wendy Elliott, 1972.

Although Mr. Ackery achieved an 'A' academic level (university entrance level) in Zoology, Chemistry, and Physics, at Preston Manor County Grammar School, he never pursued a university degree. Associated with the Department of Entomology, British Museum (Nat. Hist.) since 1965, he began as a Scientific Assistant in Diptera, and later transferred to Lepidoptera in January, 1969. Since then he has served as Scientific Officer (May, 1969), Higher Scientific Officer (February, 1975), Senior Scientific Officer (February, 1983), Head of Rhopalocera (1984-1988), and currently serves as Deputy Head of Lepidoptera.

As an active Fellow of the Royal Entomological Society, Mr. Ackery served as a co-convenor along with Mr. Vane-Wright, for the Royal Entomological Society Symposium on The Biology of Butterflies in 1981. He also served as a convenor of the Butterfly Research Association meetings on 'The Lepidoptera — their biology and phylogenetic systematics' (1985) and 'Lepidoptera lives — aspects of behaviour in butterflies and moths' (1986). Mr. Ackery also attended to the First International Conference on Tropical Entomology in 1986.

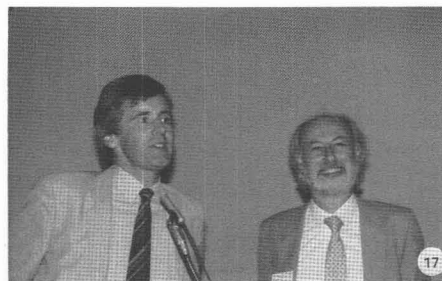
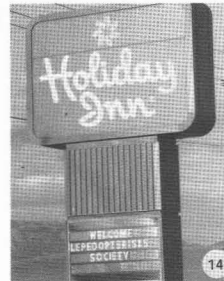
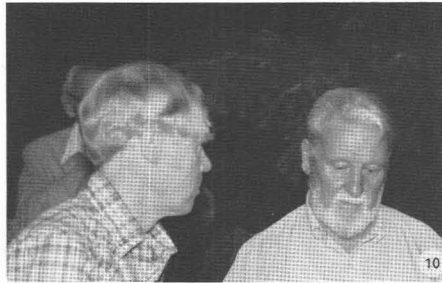
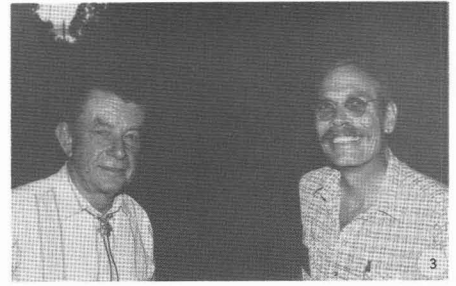
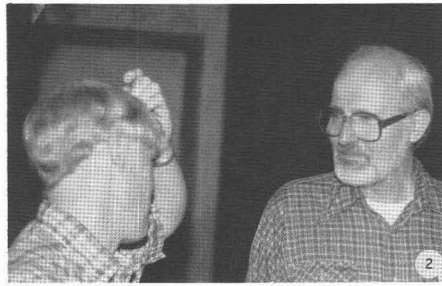
With more than 15 major publications to date, Mr. Ackery has focused his research interests on the systematics of nymphalid butterflies with additional interest on the Parnassiinae (Papilionidae).

Mr. Richard I. Vane-Wright was born at Orpington, Kent, England, 26 July 1942. Married Hazel Whitehead, 1987; one daughter, Naomi.

Educated at Bromley County Grammar School for Boys in Kent, Mr. Vane-Wright achieved an 'A' level in Zoology and Botany from Bromley Technical College (1962). He commenced as an undergraduate reading biochemistry at University College, London, University of London in 1962, transferred to Zoology in 1964, and graduated with 1st Class Honours B. Sc. in Zoology (Special. Marine Biology) in 1967. Mr. Vane-Wright pursued a doctor of philosophy degree with his research on mimicry in *Papilio dardanus* but to date has not completed the degree.

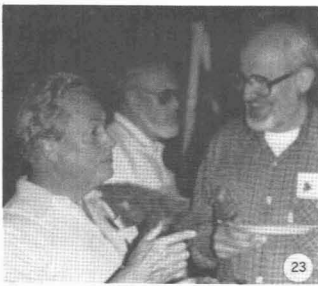
continued on page 67

CANDID PHOTOS FROM ALBUQUERQUE,* #'s 1-22, by Dave Winter. 1. Jerry Powell and Ralph Wells, 2. Cliff Ferris with Bill Miller, 3. Bob Langston and Steve Prchal, 4. Jackie Miller and John Lane, 5. Adam Porter, John Lane and Boyce Drummond, 6. Ron Leuschner, 7. Dick Vane-Wright and Larry Gall with his little one, 8. Richard Fall, 9. Phil Ackery, 10. Cliff Ferris and John Hinchliff, 11. Paul Opler and Steve Cary, 12. Dottie Landing, Hazel Tilden, Ben Landing, 13. Charlotte and Doug Ferguson, 14. The Holiday Inn signboard, 15. Jordan Medal Presentation: Ron Leuschner, Lee Miller (back to camera), Dick Vane-Wright, Phil Ackery, 16. A portion of the 120 banquet attendees, 17. Jordan Medal recipients, Phil Ackery and Dick Vane-Wright, 18. The Heppner family at the Banquet, Dale Jenkins standing, 19. Vi Stallings and Jo Brewer, 20. Stephen Davis, Marisa Davis, Vanessa Heppner and Eric Caprisecca, 21. Marisa Davis draws for a door prize with Covell's help, 22. Marisa Davis, Charlie Covell and Eric Caprisecca handle the door prizes. *Identifications in each photo are always from left to right.



ALBUQUERQUE PICTURES

Photography,
Dave Winter



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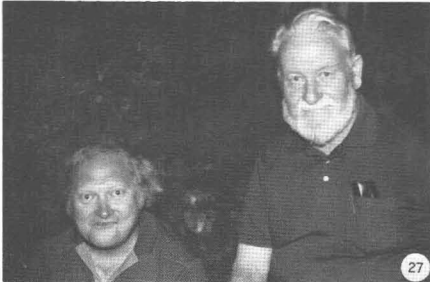
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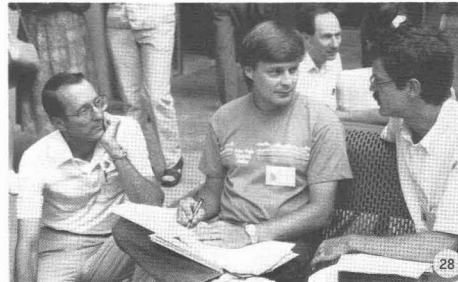
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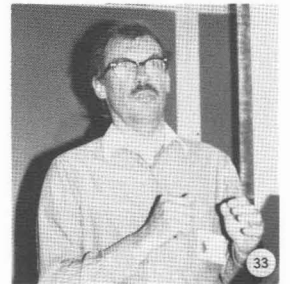
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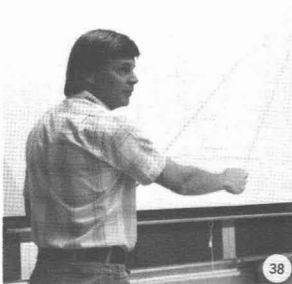
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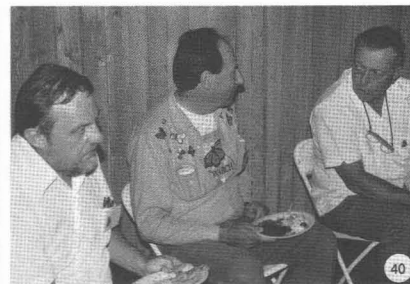
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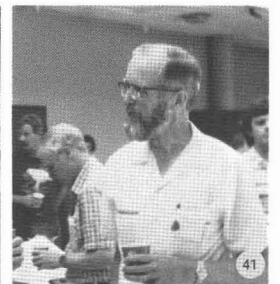
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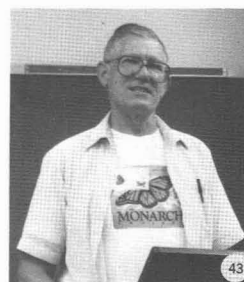
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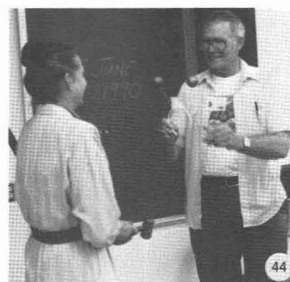
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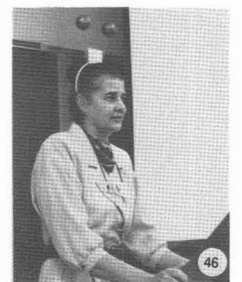
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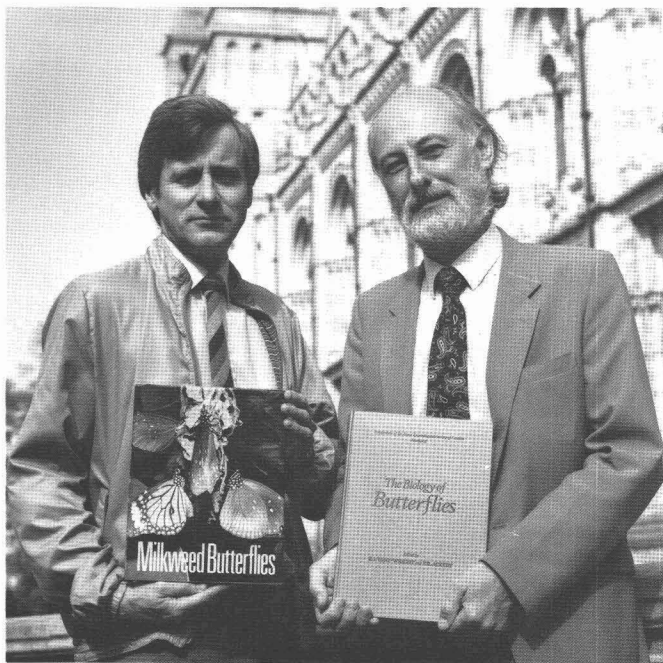
MORE ALBUQUERQUE PHOTOS

Photography,
Charles V. Covell Jr.

Mr. Vane-Wright has been associated with the Department of Entomology, British Museum (Nat. Hist.) in various positions since 1961, first in the Lepidoptera section, followed by two years as an assistant to Dr. Paul Freeman, working on British and exotic Diptera (Nematocera). In 1967 he was appointed Scientific Officer to engage in the study of butterflies with special emphasis on evolutionary studies and in 1968, was promoted to Head of the newly formed Rhopalocera Section. In 1984, Mr. Vane-Wright was appointed Deputy Keeper of Entomology.

Member and held office in a number of professional and honor societies, Mr. Vane-Wright has served in many capacities, including: Council Member of the Royal Entomological Society of London, Secretary of the British Museum (Nat. Hist.) Scientific Officers' Association, Scientist to BMNH Dept. of Public Services, Editorial Boards of Zoological Journal of the Linnean Society, Antenna, Evolutionary Biology, and Cladistics, and has been instrumental in the organization of numerous international symposia and conferences on the Lepidoptera.

With more than 50 publications to date, Mr. Vane-Wright's principal scientific interests include systematics, taxonomy, evolution of color, polymorphism and mimicry of butterflies, especially the Nymphalidae. He has also had extensive field experience throughout the world, including Philippines, New Guinea, Malaysia, and BMNH entomological expeditions to south western Africa (1972) and Sulawesi (1985).



The contributions of Mr. Ackery and Mr. Vane-Wright to the field in addition to their tireless efforts to assist and to collaborate with museum personnel and scientists throughout the world are highly regarded. Their organization of the international symposium on 'The Biology of Butterflies' (1981) followed by the laborious editing and publication of the symposium volume (33 contributors; 1984) is especially noteworthy. In their revisionary work, Ackery and Vane-Wright are recognized for the integration of biological data and other information into systematic studies, molding all into one cohesive taxonomic unit. These

excellent systematic syntheses are integrated into the Milkweed Butterflies, and it is for this imposing taxonomic revision that Messrs. Ackery and Vane-Wright are recognized with the Karl Jordan Medal.



NOTES ON TWO MOTHS IN LOUISIANA

Two males of Argyrogramma basigera (Walker) (Noctuidae: Plusiinae) were reared by the author from larvae found eating flowers on Cardinal Flower, Lobelia cardinalis L. (Campanulaceae), collected by D. P. Pashley in residential Baton Rouge, Louisiana. The adults emerged during the week of 8-16 September 1988 and will be vouchered in the LSU insect collection. C. V. Covell (A Field Guide to the Moths of Eastern North America, Houghton Mifflin Co., Boston, 1984:155) listed the larval food plant for A. basigera as unknown. T. D. Eichlin (pers. comm.) confirmed that there were in all likelihood no published host records for this species. This then is the first host plant record for A. basigera.

Opogona omoscopia (Meyrick) (Tineidae) is evidently common in residential Baton Rouge. Close to 100 individuals have been observed and collected at light at the author's home since mid-February of 1989 and continue to show up as of this writing in early May. This interesting moth was recently reported and two new species of Opogona were described in the United States by D. R. Davis (Smithsonian Contrib. Zool., No. 282, 1978). These Louisiana captures represent a significant range extension for O. omoscopia, originally described from Australia, as it was previously known only from coastal, southern California in the United States. It flies earlier than the California populations, the latter being reported to fly in late May to late July (Davis, 1978). An additional specimen (dead) was observed 5 miles east of St. Francisville, Audubon State Commemorative Area, 19 March 1989. It is not known whether or not these records represent a recent introduction to the Gulf region. Series of the moth will be deposited with the collection at LSU and with the Smithsonian Institution.

T. P. Friedlander
Dept. Entomology, Louisiana State

ZONE 5 COORDINATOR CHANGING

For the past 5 years the ZONE 5 Season Summary has been very ably handled by Richard C. Rosche of Chadron, Nebraska. In that time, through his diligent efforts, the ZONE 5 coverage has greatly increased as have the number of contributors. The Great Plains have finally been recognized as good butterfly territory. Dick has also been instrumental in attracting many new members in the Great Plains area to the Society. Our sincerest thanks go to Dick Rosche for all the time and effort he has expended for the Season Summary, and we wish him well in his future ventures as he leaves the position of ZONE 5 Coordinator.

The new ZONE 5 Coordinator will be Dr. Ron A. Royer of Minot, North Dakota. Ron is quite interested in distribution and ecology of the butterflies and is the author of the recently published book, Butterflies of North Dakota. He is on the faculty of Minot State University in the Division of Science.

MORE CANDID PHOTOS FROM ALBUQUERQUE,* #'s 23-46, by Charlie Covell. 23. Ben Ziegler, Dick Rosche, Bill Miller, 24. Chuck Harp, Stan Nicolay, Bob Langston, 25. Phil Ackery and Susan Borkin, 26. Lee and Jackie Miller, 27. K  rolis Bagdonas and John Hinchliff, 28. Tom Emmel, Boyce Drummond and Chuck Harp with Paul Opler in background, 29. Jerry Powell and Stephanie McKown, 30. John and Sarah Burns and Paul Opler, 31. J.R. and Beulah Turner, 32. Paul Milner and K  rolis Bagdonas, 33. Dick Holland making announcements, 34. Paul Milner, Tom Emmel and Dale Jenkins, 35. John Lane presents a paper, 36. An attentive audience, 37. Hide Chiba, 38. Boyce Drummond illustrates a point, 39. John Rawlins, 40. Don Davis, Paul Opler and Lee Miller, 41. Jim Tuttle & Cliff Ferris in background, Dave Winter, Steve Cary in background, 42. The Resolutions Committee, Jackie Miller and Jo Brewer, 43. Ron Leuschner presiding, 44 and 45. Ron Leuschner presents the symbols of office to Jackie Miller, 46. Our first woman president, Jackie Miller, adjourns the meeting. *Identifications in each photo are always from left to right.

ERROR CORRECTION IN RE LYME DISEASE ITEM

A typographical error which might cause some misunderstanding and confusion slipped through in the article on Lyme Disease appearing on page 46 of NEWS #3, 1989. In the first paragraph of the article, the last sentence should read "In some areas of the Northeast," (not the Northwest), "tick infectivity approaches 20%..."

POPULATION EXPLOSION OF HYLES LINEATA

An article from the Los Angeles Times of Thursday, April 6, 1989 was sent to the NEWS by Julian Donahue. Titled, "Fly-by-Night Stadium Fans," subtitled "Swarms of Moths Eclipse Padres' First Performance," it was written by Curt Holbreich, a Times staff writer. The article tells of the swarms of white-lined sphinx moths that were attracted to the San Diego Jack Murphy Stadium by the bright lights, causing spectators to dodge more than hard-hit foul balls. The moth, with a wing span of 3 to 4 inches is large enough to scare people. It is a hardy moth, harmless to agriculture and wildlife, that doesn't seem to have been seriously affected by the lack of winter rainfall and is experiencing a real population explosion in 1989 in Southern California. Society member Brian Harris, a lepidoptera technician at the Los Angeles County Museum of Natural History, is quoted in the article, saying "I've seen them flying around in the morning on the freeway and that is quite amazing. I haven't seen that in a long time." David Faulkner, curator of entomology at the San Diego Natural History Museum, and also a Society Member, says "they seem to run in cycles; every three or four or five years their population just explodes. The moths that are flying now are the result of eggs laid last summer." The moths are in the news this year because their emergence period coincided with the opening season for the Padres National League baseball team and they have been so numerous that baseball fans have been complaining. In normal years the swallows nesting in the stadium are able to keep the moths in check, but this year the birds appear to be overwhelmed. The moths are so numerous this year that they are even bothersome during the day games at the stadium, although they are usually only nocturnal. As Kathy Wilson, a biology professor at San Diego State University says, "They are a beautiful moth; they are just making a bad name for themselves because they were at the wrong place at the wrong time. If this had happened before the baseball season, no one would have cared."

AMPHIBIOUS BUTTERFLIES

At Cottonwood Spring in the Atascosa Mts., Santa Cruz Co., Arizona, on 5 August 1986, I was amazed to see several Pyrrhopyge araxes (Hesperiidae) land on water near the edge of small pools, float with wings spread flat on the water's surface, extend the proboscis and drink for awhile, then flap the wings vigorously and fly away. When I was a kid I discovered that butterflies placed underwater would immediately flap their wings and shoot straight out of the water like a Polaris missile. But voluntary amphibious behavior is new to me.

James A. Scott
Lakewood, Colorado

AN UNUSUAL COLLECTING TRIP

In April, 1988 I was on a collecting trip in the Ft. Myers, Florida area while visiting my brother there. Needless to say, it was a trip that didn't turn out as expected. I was following a dirt road in the wooded area south of the Metro Mall looking for butterflies and, in crossing the road from one side to the other, I glanced behind some palmettos and saw a skeleton. At first I thought it was a deer but then I looked closer and saw it had clothing on it. The skeleton appeared to be lying face down. The clothing was tattered and weathered. There was a pair of running shoes and what appeared to be blue jeans on the skeleton but I couldn't see a shirt. Finding the body wasn't

the shocking experience it could have been as the advanced decomposition of the remains made them less shocking. I guess that when we venture out in the brush we should be prepared for anything.

Richard Ullrich
Lilburn, Georgia

TRIVIA TIME

Papilio glaucus, the tiger swallowtail, has been designated the official state butterfly by Georgia's legislature.

From The Editor's Desk

June Preston



The summer is almost over, the Annual Meeting in Albuquerque is history, as is the NEWS editors' summer of chasing after butterflies in unusual habitats and hard to reach localities. The only complaints we've heard about the Annual Meeting is that it rained too much, both before and after it, for there to be much good collecting in the area, but we were forewarned that the end of July was the monsoon season in New Mexico. We do want to express our thanks to Charlie Covell and Dave Winter for taking the candid photos of the meeting activities.

We hope those of you who enjoy collecting had a good summer and that all you photographers out there found plenty to photograph as well. However, whatever your lepidopterological bent, we trust you all had an enjoyable summer with plenty of pleasant memories to carry you through the coming winter.

I have finally reached the bottom of the pile of mail that has been accumulating since I took the last issue of the NEWS (#4, 1989) to the printer. The following letters seem to address points of general interest to the membership. Keeping up with the changes in nomenclature is difficult for many of us and now we must also be concerned with changes in terminology. As usual, opinions expressed in these letters are those of the authors and do not in any way reflect any policies of the Lepidopterists' Society.

Dear June:

Recentmost issues of Journal of Research on the Lepidoptera, Journal of the Lepidopterists' Society, and Bulletin of the Allyn Museum all contain papers which use the term "nominate subspecies." As far as I can determine, usage of this term is now obsolete and technically incorrect. In Article 47 of the 1985 International Code of Zoological Nomenclature, the term has been changed to nominotypical subspecies. I assume that taxonomists should now use this latter terminology, despite the fact that nominate is well-established in the literature. It will be interesting to see how quickly the new term becomes adopted in the entomological literature, if it does at all. Sincerely,

Richard S. Peigler
Denver Museum of Natural History

RE: Mariposas Mexicanas Dear Ms. Preston:

I refer to the request for information about this book in the March-April issue of NEWS of the Lepidopterists' Society. Last fall I ordered a copy of the book Mariposas Mexicanas directly from the publishers in Mexico. My copy arrived in due course in perfect condition, having been well packaged to survive the rigors of surface mail. To order a copy, send a check for \$61.50 to:

Fondo de cultura Económica, S.A. de C.V.
Av. de la Universidad, 975
Apartado Postal 44975
03100 México, D.F., MEXICO

The book costs \$58.60, and postage is \$2.90. (These prices were correct as of October, 1988.) I have been advised that the book may be purchased for much less in

Mexico, where payment would be made in pesos.

If entomological book dealers do not have the book, it may be because the Mexicans require cash in advance and may not grant a dealer's discount.

John W. Wall

Notices



MONARCH BUTTERFLY FOR NATIONAL INSECT

NEEDED: References, illustrations, or other information documenting a knowledge of the monarch butterfly by Indians of the Americas (U.S., Mexico, Canada) or by early settlers. To date, information indicates the monarch was described from specimens collected in Pennsylvania in or before 1758; the first Western record appears to be an illustration in the report of the 1815-1818 Kotzebue Expedition along the California coast; it was used as a decoration on the hat of Chief Sitting Bull in the 1880's. Additional information should be sent to the Chairman of the National Insect Subcommittee, Doug Sutherland, Entomological Society of America, 9301 Annapolis Road, Lanham, MD 20706 or phone (703) 557-2224 days or (301) 345-6119 evenings.

SPECIAL BACK ISSUE SALE

Due to necessary circumstances, the Society (starting in 1990) will only sell single copies/single volumes of the JOURNAL from 1980 on. Issues from 1948-1979 will be available only as a nearly complete set, not sold separately.

This means that this is your LAST CHANCE to fill in those missing issues or volumes in your JOURNAL library. As a special inducement, The Society has reduced prices as follows:

	PER VOL.	PER ISSUE
Original NEWS, Vol. 1,2,3,5	\$15	
Original NEWS, Vol. 4		\$3.75
(only 4-5, 8-9 available)		
JOURNAL, VOL. 6-33	\$15 (if compl.)	\$3.75
However, remember, your order must be received by November 1, 1989 to be filled. All orders received after that date will be returned.		
The following are those issues of the original NEWS or the JOURNAL which are NOT available:		
V.6 - All issues but 4-5	V.10 - 1-2	
V.7 - All issues	V.11 - All issues	
V.9 - All issues but 4-5, 6	V.12 - All issues but 5-6	
V.13 - 1	V.20 - 3	V.23 - 1,2
V.18 - 1,2,4	V.21 - 1	V.24 - 1,2
V.19 - 1,2,3	V.22 - 1	V.33 - 1

Order from the Publications Coordinator, Ron Leuschner, 1900 John St., Manhattan Beach, CA 90266-2608 USA.

VISIT COSTA RICA

LEPIDOPTERISTS EXPEDITION PROGRAM IN COSTA RICA: Personalized programs dedicated to your special interests in collecting or photography. Naturalist lodges located in the best lowland, montane, cloudforest locations. We obtain collecting and export permits. Come, join the many Lepidopterist Society members who've visited Costa Rica. Low cost inclusive of accommodation, meals, guide, field-trips, airport-lodge-airport transfers and much more! Come, visit Costa Rica, a Naturalists paradise awaiting to be discovered! NEW LEPIDOPTERISTS PROGRAM BROCHURE WITH COLOR PHOTOGRAPH: Write to Lepidopterists program, TRANSWORLD BUTTERFLY COMPANY, Apartado 6951, 1000L-San Jose, COSTA RICA, C. America (Tel. +506-284768, FAX +506-281573)

ICZN

The following application was published on June 23, 1989 in Vol. 46, part 2 of the Bulletin of Zoological Nomenclature. Comment or advice on these applications is invited for publication in the Bulletin and should be sent to the Executive Secretary, I.C.Z.N., c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.

Case No.

2665 Rosema Walker, 1855 (Insecta, Lepidoptera): proposed conservation

Paul Thiaucourt, Muséum National d'Histoire Naturelle, 45 rue de Buffon, 75005 Paris, France Abstract. The purpose of this application is to conserve the notodontid moth generic name Rosema Walker, 1855 by giving it precedence over two unused senior subjective synonyms, Zelica and Rhogalia, both published by Hübner [1825].

The following opinion was published on June 23, 1989 in Vol. 46, part 1 of the Bulletin of Zoological Nomenclature. Opinion

1544 ETHMIIDAE Busck, 1909 (Insecta, Lepidoptera): given precedence over AZINIDAE Walsingham, 1906.

1988 TREASURER'S REPORT

1. Beginning Balance \$88,901.96
2. INCOME for 1988

Member Dues	31,120.86
Institutional Subscriptions	5,000.00
Air Mail	800.00
Late Fees	96.00
Interest Earned	3,595.78
Undesignated Gift	598.00
Illustrations Fund Gift	57.50
Publications Fund Gift	37.50
Sale of Memoirs/Commemoratives	605.50
Sale of Back Issues	675.30
Page Charges, Vol. 40	60.00
Vol. 41	1,890.00
Vol. 42	1,570.00
Mailing List Rental	838.39
New Life Members	2,450.00
Miscellaneous Income	17.00
Total	49,411.83

3. EXPENSES for 1988

NEWS (#6, 1987; #1-#5, 1988)	9,519.14
JOURNAL [Vol 41(4); Vol 42(1-4)]	30,631.00
Printing	497.53
Postage	1,502.08
Back Issue Handling	1,132.15
Treasurer	137.47
Secretary	254.18
Assistant Secretary	100.81
JOURNAL Editor	79.68
NEWS Editor	54.70
Mailing List Maintenance	364.97
Bank Service Charges	154.83
Miscellaneous Expenses	479.73
Total	44,938.27
ENDING BALANCE	93,375.52

4. Distribution of Cash Assets

Petty Cash Fund	100.00
Checking Account @4.5%	43,275.52
CD: 12 mos @8.05%	15,000.00
CD: 12 mos @8.90%	15,000.00
CD: 12 mos @7.05%	20,000.00
Total	93,375.52

For comparison, the 1987 figures may be found in NEWS #5, 1988 on page 82.

James Tuttle, Treasurer

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 Miller-Brown list (Lep. Soc. Memoir No. 2, 1981) 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 1990 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

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

CALL FOR NOMINATIONS FOR NEW MEMBERS OF THE ICZN

The following members of the Commission reach the end of their terms of service at the close of the XXIV General Assembly of the International Union of Biological Sciences, to be held in Amsterdam in July 1991: Dr H. G. Cogger (Australia, Herpetology); Prof Dr O. Kraus (Fed. Rep. Germany, Arachnology); Dr M. Mroczkowski (Poland, Coleoptera); Dr W. D. L. Ride (Australia, Mammalia). A further vacancy arises from the resignation of Dr G. C. Gruchy (Canada, Ichthyology).

The addresses and specialist fields of the present members of the Commission may be found in the *Bulletin of Zoological Nomenclature*, 46(1) (March 1989). Under article 3b of the Commission's Constitution a member whose term of service has terminated is not eligible for immediate re-election unless the Council of the Commission has decided to the contrary.

The Commission now invites nominations, by any person or institution, of candidates for membership. Article 2b of the Constitution prescribes that:

'The members of the Commission shall be eminent scientists, irrespective of nationality, with a distinguished record in any branch of zoology, who are known to have an interest in zoological nomenclature.'

(It should be noted that 'zoology' here includes the applied biological sciences (medicine, agriculture, etc.) which use zoological names.)

Nominations made since September 1987 will be reconsidered automatically and need not be repeated. Additional nominations, giving the date of birth, nationality and qualifications (by the criteria mentioned above) of each candidate should be sent by 15 June 1990 to: *The Executive Secretary, International Commission on Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.*

UTAHENSIS RUNNING STRONG

Back issues of UTAHENSIS – A Lepidoptera Journal (presently six of them) will, most probably, all be published by the end of this year. Many of these are already in prep. The latest (back) issue (Vol. 6, Iss. 3) is a very informative, 24-page, all California issue by Dr. A. Oakley Shields. Copies of the fourteen published issues (Vols. 4 thru 8) are available at the rate of \$10.00 per volume of four issues each. For a subscription or further details, please write to: Col. Clyde F. Gillette, Editor, UTAHENSIS, 3419 El Serrito Dr., Salt Lake City, UT 84109.



ALEXANDER B. KLOTS.....

Dr. Alexander Barrett Klots, a leading authority on butterflies and other insect life, died of emphysema on April 18 at the Day Kimball Hospital in Putnam, Conn. He was 85 years old and had lived in retirement in Putnam for 16 years having previously lived in Pelham, N.Y.

Dr. Klots wrote more than 100 articles on Lepidoptera, the order that includes butterflies and moths, as well as on other insects and on animal ecology. He was the author of

"The World of Butterflies and Moths" and of "A Field Guide to the Butterflies." The latter, published in 1951 by Houghton Mifflin, sold more than 100,000 copies.

Reviewing the guide for The New York Times Book Review, the writer Vladimir Nabokov, who was also a lepidopterist, hailed "A Field Guide" as the finest book on the subject since Samuel Scudder published "The Butterflies of the Eastern United States and Canada" six decades earlier.

With his wife, Dr. Elsie Broughton Klots, Dr. Klots wrote four other books on insects. A member of the Explorers Club, he led expeditions to collect insects throughout the United States and Canada, South America and Europe.

From 1934 to 1965 he was a professor of biology at City College.

He was born in Manhattan and was a graduate of the Trinity School, Blair Academy and Cornell University, from which he received bachelor's, master's and doctoral degrees.

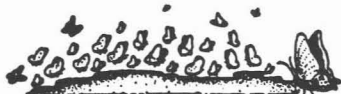
During World War II he served for four years in the Troop Carrier Command of the Army Air Force.

Dr. Klots was a research associate of the American Museum of Natural History and a past president of the New York Entomological Society and of the International Lepidopterists' Society. He was a fellow of the Royal Entomological Society and of the Linnean Society of London.

In addition to his wife, he is survived by a son, Dr. Cornelius E. Klots of Oak Ridge, Tenn.; a daughter, Louise Snell of Washington, and four grandchildren.

by Glenn Fowler, from The New York Times
OBITUARIES of Friday, April 28, 1989, p. A15

* * * * *



Forthcoming Meetings

NEW YORK NATURAL HISTORY CONFERENCE

The New York State Biological Survey is organizing a forum for current research to be held June 20-22, 1990 at the Cultural Education Center, The Empire State Plaza, Albany, New York. This conference will update scientists on natural history research in New York State, will focus attention on critical research needs and foster communication and linkages among research groups. The program will include invited symposia, contributed papers, and poster sessions. The symposia being organized include topics such as: Stream Ecology; Ecology of Lakes; Fishes of Lakes, Large Rivers and Estuaries; Social Insects; Forest History; Ecosystems and Disruption; Post Ice-Age Environments; Mammalian Ecology; Bird Biogeography; Natural History of Old Fields; Natural History Collections in New York; Biology of Rare Plants and Animals; and the Importance of Natural History Research. Symposia and contributed paper sessions will be scheduled for Thursday and Friday, June 21 and 22 with a general session and mixer on the evening of Wednesday, June 20th. Poster sessions will be scheduled to minimize conflicts with oral sessions, and ample time will be provided for viewing and discussion of poster presentations. Abstracts of all presentations will be published in the conference program. Student presentations are encouraged.

Final details of the meeting and a formal call for papers will be announced in a circular to be mailed this fall. If you are interested in attending this conference, please contact: The Organizing Committee, Daniel Molloy, Chairperson, Rm 3140 Cultural Education Center, Biological Survey, New York State Museum, Albany NY 12230 or telephone (518) 474-5812.

SECOND INTERNATIONAL ENTOMOLOGICAL TRADE FAIR

The 2nd International Entomological Trade Fair of Paris will be held November 25 and 26, 1989 at the MAIRIE of PARIS, 14th district (townhouse), Mouton Duvernet Street. There will be 70 exhibitors from Belgium, Denmark,

Germany, Italy, France and possibly other areas. Plans call for a pedagogical exhibition for children with free admission on Friday, November 24th, for schools and teachers. Items exhibited will be for sale or exchange. Public admission is \$3.60 U.S. or 25FF, with hours from 10 a.m. until 7:00 p.m. on Saturday and Sunday. Lodging and meals are obtainable in the area for very reasonable rates. For further information, contact M. Bernard Courtin, FRANCE ENTOMOLOGIE, 18 Sente des Chataigniers F.92380 GARCHES, FRANCE.

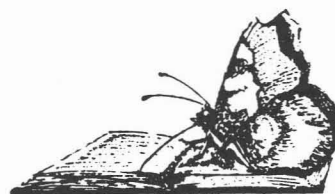


Research Notices

● **WANTED:** Living material of any species of Asterocampa and Doxocopa. Any species, any origin; ova, diapause larvae or pupae. Costs and shipping expenses reimbursed. John McFeely, 90 Stonechat Avenue, Abbeydale, Gloucester GL4 9XF England.

● **INFORMATION WANTED:** Looking for behavioral information on the adult stage of the North American noctuid AMPHIPYRA PYRAMIDOIDES Gurnee (Copper Underwing) and the following European noctuid moths - AMPHIPYRA PYRAMIDEA Linnaeus (Copper Underwing), AMPHIPYRA BERBERA SVENSSONI Fletcher (Svensson's Copper Underwing), AMPHIPYRA TRAGOPOGINIS Clerck (Mouse Moth). Using mark-recapture techniques I am investigating localized population behavior of AMPHIPYRA PYRAMIDOIDES Gn. (Copper Underwing) at sugar bait trees along a transect in the woods of central Minnesota. The focus of this work deals with sex ratios and the possible influence of sex pheromones and/or weather conditions during feeding and roosting aggregation. I wish to communicate with anyone who has any experiences, information or references of similar context relating to or about these listed moths. Please correspond to: TOM SEABOLT, 710 7th Street SE, Minneapolis, Minnesota 55414 USA.

Books



IMPORTANT NOTICE

Available now is Memoir #3 of the Lepidopterists' Society: Ferris, C. D. (editor), Supplement to: A Catalogue/Checklist of the Butterflies of America North of Mexico. 103 pp, soft cover.

This work contains general notes on entries in the Catalogue/Checklist, corrections and additions to the North American butterfly names since publication of that work, and an updated straight checklist of all North American butterfly species and subspecies reflecting the latest additions and changes in nomenclature. The latter makes a fine life list, as well as guide to organization of collections and preparation of labels.

Order from: Charles V. Covell Jr.,
Dept. of Biology
University of Louisville
Louisville, KY 40292, U.S.A.

Prices: \$6 postpaid (members, in U.S.A.)
\$7.50 postpaid, first class (members, in U.S.A.)
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You may wish to use the center pull-out order blank in the NEWS #2, March/April 1989.

ADDITIONS AND CORRECTIONS TO MEMOIR #3

For a list of Corrections and Additions to the recently published Memoir #3 (Supplement to: A Catalogue/Checklist of the Butterflies of America North of Mexico, edited by C. D. Ferris), send \$2.00 to Charles A. Bridges, 502 N. Main, #308, Urbana, Illinois 61801.

FREE PUBLICATION

SOUTH AFRICAN RED DATA BOOK — BUTTERFLIES, 1989, by Henning & Henning. vi + 175 p., 106 figs. Of the 632 species known to occur in South Africa, this book treats 141 species and subspecies: 2 are categorized as extinct, 2 endangered, 7 vulnerable, 91 rare, and 39 indeterminate. Each taxon is treated with sections of Identification, Life History, Distribution, Habitat and Ecology, Status, Threats, Conservation Measures, Investigations Required, and References. The authors argue convincingly that habitat destruction, not collecting, is the cause of declining populations, and give examples of conservation measures being undertaken. Large format, well illustrated, soft cover. Available free on request from: Foundation for Research Development, Council for Scientific and Industrial Research, P.O. Box 395, Pretoria 0001, South Africa.

FIRST ANNUAL OF FRENCH ENTOMOLOGICAL ASSOCIATIONS AVAILABLE

"ANNUAIRE des ASSOCIATIONS ENTOMOLOGIQUES FRANCE, Edition 1989." This Annual has just been published, in French, by FRANCE ENTOMOLOGIE. It contains the names, addresses and phone numbers of associations, buyers, museums and butterfly farms in France. The cost is \$10.00 US, payable to FRANCE ENTOMOLOGIE. To order, contact M. Bernard Courtin, FRANCE ENTOMOLOGIE, 18 Sente des Chataigniers F.92380 GARCHES, FRANCE.

RECENTLY PUBLISHED BOOKS

- Chalmers-Hunt, J. M., 1989, Local Lists of Lepidoptera, Hedera Press, Uffington, Oxfordshire, England. 247 pp, hard cover £21
- D'Abrera, B., 1988, Butterflies of the Neotropical Region, Part V. Nymphalidae (conc.) & Satyridae. Hill House Publishers, Victoria, Australia. pp 680-877 (217 pp), hard cover \$195
- Eaton, John L., 1988, Lepidopteran Anatomy, John Wiley & Sons, New York. 257 pp, hard cover \$49.95
- Gerberg, Eugene J. and Ross H. Arnett, Jr., 1989, Florida Butterflies, Natural Science Publications, Inc., Baltimore, Maryland. soft cover \$9.95
- Holloway, J. D., J. D. Bradley, D. J. Carter, 1987, CIE Guides to Insects of Importance to Man. 1. Lepidoptera. C.A.B. International, Wallingford, Oxon OX10 8DE, U.K. 262 pp, spiral bound \$29, hard cover \$52.25
- Merzheevskaya, O. I., translated by P. M. Rao, 1988, Larvae of Owl Moths (Noctuidae). Biology, Morphology, and Classification, Smithsonian Institution Libraries and National Science Foundation, Washington, D.C. 419 pp, hard cover \$50
- Motono, Akira and Noriko Negishi (supervised by Tadahiro Takakura), 1989, Butterflies of Laos, Kirihara Shoten, Tokyo, Japan. 215 pp, in Japanese with English preface. No price available at present.
- Palm, Eivind, 1989, Nordeuropas Prydvinger (Lepidoptera: Oecophoridae), Fauna Bøger, København, Denmark. 247 pp, in Danish, DKK 240
- Poole, Robert W., 1989, Lepidopterorum Catalogus (new series), fascicle 118, Noctuidae, parts 1, 2 and 3, incl 2 text parts and a bibliography and species index. E. J. Brill, Leyden, Holland / Flora & Fauna Publications, Florida. 1318 pp, \$250

BOOK REVIEWS

The Butterflies of Hispaniola, by Albert Schwartz. Univ. of Florida Press, 1989. 580 pages. 7 double-page

plates of habitat. Two butterfly plates, one in color. Price: \$35.00. (Order from: Univ. Presses of Florida, 15 NW 15th St., Gainesville, FL 32603)

This is the ultimate book on butterflies of Hispaniola, an island of the Greater Antilles comprising the countries of Haiti and the Dominican Republic. The book represents an amazing effort in a very short time, since prior to 1974 very little was known of butterflies on this island. Ten years of collecting at various seasons have produced this volume, which provides distribution over the island for the 196 species that are discussed.

The notes on each species are extensive. Precise details of habitat (wet vs. dry, forest type), elevation, time of day, nectar sources and temperature at time of capture are given. This is not a picture book, but a complete key to all species is included (with a second version in Spanish). Within each species discussion are further details on various names that have been applied (rightly or wrongly), and characteristics of each.

Not mentioned are the rigors of many hours in the field which must have been spent gathering the collections on which this book is based. Neither are details given on how the near inaccessible interior localities were reached. But the result of these efforts is a very comprehensive book on this interesting island fauna. Included as an appendix is the description of Tmolus victoria Kurt Johnson and Matusik (Lycaenidae) so that this new species could be included.

Ron Leuschner

Portraits of South Australian Geometrid Moths, by Noel McFarland. Allen Press, 1988. 400 pp., 1,540 photos. Price \$80 (includes postage and handling in U.S.; \$85 outside U.S.) Available only from author: Noel McFarland, P.O. Box 1404, Sierra Vista, AZ 85636, U.S.A.

This large (10-1/4 x 13-3/4 inches) soft cover book is unique in the annals of Lepidoptera life history studies in several ways. Not only does it include superb black and white photos of all life stages of 72 species of Australian inchworm moths, but it includes the most detailed accounts of lovingly reared moths I have yet seen. Being privately published, the usual constraints for scientific publication do not apply, and McFarland was free to follow his star. This he has done by giving the reader a view into his own mind and soul, as well as exhaustive information — visual and verbal — about the 72 species covered.

The book begins with introductory material explaining the background, format, localities, and foodplants of the included inchworms. There are 88 fine black and white photos of habitat to supplement descriptions. Then follow chapters of text and plates covering each species — at least 2 pages for each. Chapters include basic nomenclatural references, foodplants and phenology, descriptions of adult, egg, larval instars, and pupa with copious observations, plus data on photographs and notes. Photographs usually show eggs, larvae and pupae in one to several aspects, and adults as either pinned or live individuals, or both. Contrast and sharp detail are about the best I have ever seen in black and white photography. The live moths often exhibit interesting stances and variations of wing posture as McFarland shows them (sometimes head-on) — perhaps the most interesting aspect of the book. In any case, I was struck by the great diversity of form and pattern in Australian geometrids, some of them so unlike the American geometrid fauna that they superficially resemble Noctuidae, Notodontidae, and other families.

Appendices include treatises on resting positions of adults and larvae, crypsis, rearing and preservation techniques, photographic techniques, plus acknowledgements, references, several indices, and other helpful and informative sections. Woven throughout are some of Noel's personal history, methods and reasoning behind them, and philosophy. The work is punctuated with quotes from Thoreau and others; and there are many nice "extras," such as rulers printed inside front and back covers, a pocket to hold his additional publications, and boldfaced key words in his text to emphasize points.

It is clear that McFarland extols observing and learning life cycles and habits of his subjects over the mere collection and study of adults alone. He amply describes techniques to make such work possible, but admits that

time, patience, and labor must be invested to make possible the results his book exemplifies. He dispels what he calls the "myth of the green thumb" and the "myth of the elaborate tripod" to help break down one's resistance to attempting much-needed biological and behavioral studies.

This is a scholarly work of great importance and interest. Photos of living caterpillars and moths are true portraits, with exceptionally fine photographic quality. My only negative observation is that one must invest time to learn how to best use the book, as some coding and special terminology are employed, and organization is a bit difficult to key into. It is the magnum opus of a careful and talented student of life histories; and I heartily recommend it to anyone at all interested in living moths and biological studies. And it is a bargain at the price.

Charles V. Covell Jr.

Butterflies of Borneo. Volume 1. Papilionidae, Pieridae, Danaidae, Satyridae, Libytheidae, Nymphalidae and Riodinidae. by Kazuhisa Otsuka. 1988. xx plus 61 pp Japanese text, and xix plus 61 pp English text; 80 color plates, each showing 15 insects; 7.5" x 10.5". Cost is \$75 which includes mailing via surface mail. It is obtainable from the author at 1-13-26, Jindaiji, Higashi-cho, Chofu City, Tokyo 973, JAPAN or a book dealer, TTS Kontyu Tosyo, P.P. Box 11, Naigo, Iwaki City 973, JAPAN. The book is nicely made, hardbound and attractive. The introductory text consists of a preface, acknowledgments, explanation of symbols and abbreviations, and 10 pages of Nature and Butterflies in Borneo. There is a short Bibliography listing 27 references for South East Asia. The main text has a short paragraph for each of the 337 taxa covered, giving species name and author, information on size, useful identification characters and distribution. There are no drawings of genitalia. Volume II, covering the Lycaenidae and Hesperiidae is due in late 1990.

Charles A. Bridges

The Butterflies of Manitoba by P. Klassen, A. R. Westwood, W. B. Preston and W. B. McKillop. 1989, Manitoba Museum of Man and Nature, 190 Rupert Ave., Winnipeg, Manitoba R3B 0N2, Canada; 8" x 11", 296 pages in paperback with a laminated plastic cover; \$21.95 plus \$2.00 postage and handling in Canadian funds or \$18.66 plus \$1.70 postage and handling in U.S. funds. This well documented and comprehensive coverage of the 144 known Manitoba butterflies is a beautiful addition to the growing number of recent books on butterflies of individual states and provinces. The authors are to be congratulated for their efforts in making this book particularly useful for those wishing detailed distribution data on northern species. The species are shown in 27 color plates with pertinent data accompanying each specimen. The color plates are supplemented with black and white habitat shots and several photos in color and in black and white of living specimens. For each species, the authors present a description of the adult, with life history, habitat, range and nectaring information, plus a discussion of similar species if there are any. There is also a listing of localities in Manitoba where each species has been found. Large and clear dot maps accompany each species. Flight periods are given for all the species. An interesting account is given of early Manitoba lepidopterists. The various ecological environments for butterflies in the province are also discussed. The appendices include sections on collecting butterflies, a list of larval and adult food plants, a check-list of the Manitoba butterflies, detailed locations of major collecting sites, including latitude and longitude and a locator map, a summary of flight periods, and a statement on collecting policy from the Lepidopterists' Society. There is a glossary of terms and a species index as well as a complete table of contents. Since Manitoba covers such a diverse range of habitats, ranging from Tall Grass Prairie and Mixed Grass Prairie through Boreal Coniferous Forests to Arctic Tundra, there is a wide range of information to be imparted and The Butterflies of Manitoba has done this in a very readable, informative style. An extensive bibliography is also included. Anyone with an interest in North American butterflies will find this a fascinating book.

June D. Preston

Butterflies of the World, by Rod and Ken Preston-Mafham. Facts on File Publications. New York and Oxford, England. 1988. Price: \$22.95 hardbound. 192 pages. Fully illustrated, many in color.

If you could own only one general book on butterflies, this should be it. This book offers an overview of many aspects of butterflies, complete with color (and colorful) photos of species in their natural surroundings. Its ten chapters cover structure, life cycle, adult behaviour (courtship/reproduction and "The Daily Round"), survival patterns, variation, enemies, ecology and distribution, and Butterflies and (or versus) Man.

Each subject is presented in a clear and understandable manner, with the evidence and line of reasoning leading to the theories presented. But this is not a pedantic book, presenting theories as fact. Quite often, conflicting ideas are given, with contradictions or gaps in knowledge gently pointed out. The reader is thus invited to make the final decisions. No matter how many books on butterfly habits you have read, this book is bound to offer some new insights and show areas worthy of further study.

Ron Leuschner

New Members



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The Market Place

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

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

WANTED: D'Abrera's Butterflies of the Neotropical Region, Vol. 3, Part 1 and D'Abrera's Butterflies of the Oriental Region, Vol. 4, Part 1. Please state price and condition. Bob Gondek, 11164 Marsha Place, Warren, Michigan 48089. Phone (313) 758-6499.

EXCHANGE: Many rare bred European Parnassius and Papilio sp and ssp, in pairs, for rare world Parnassidae of Alaska, Soviet Union, Kina, in pairs and very good quality; also for rare S. American Papilios and Morphos and better Asiatic Papilios, etc. Available also for sale or exchange are bred pairs of the rare A. damone (Sicily), Z. polyxena macedonica pupae, rare (Greece), M. arge fresh pairs, and P. machaon sphyryus bred pairs (Sicily), etc. I also desire contacts with Kinese and Japanese amateurs specializing in Parnassius. Nardelli Uberto, Via Cosma e Damiano 9/2, I-38100-Vela-Trento, ITALY.

FOR SALE: D'Abrera, Butterflies of the Afrotropical Region, \$150.00 (negotiable) and D'Abrera, Butterflies of the Neotropical Region, Vol. 1, \$150.00 (negotiable). Both books are like new; I will pay shipping costs. Send inquiries and a SASE to Adrienne Venables, 6212 Princess Garden Parkway, Lanham, MD 20706.

FOR SALE: Cocoons of Actias luna and possibly other species. SASE for prices. Larry J. Kopp, R.D. 1, Box 30, Klingerstown, PA 17941.

FOR SALE: Light traps for use with 12 volt batteries or 120 volt AC, or both. Portable and light weight with 8, 15 or 22 watt bulbs. Beetle screen and rain drain. Excellent design and construction. For more information and pricing, contact: Leroy C. Koehn, 2946 N.W. 91st Ave., Coral Springs, FL 33065. Telephone (305) 344-3873.

FOR TRADE: Dark coastal H. euryalus live cocoons and ova for papered North American Saturniidae, Hemileuca, P. indra ssp, or what have you. Write to Bill Cornelius, P.O. Box 57, Albion, CA 95410.

WANTED: Two or three A+ pairs of Polites mardon. Can offer choice of 300-400 N.A. species in exchange, or a few moth species. Also, EXCHANGES: I need many species of N.A. butterflies and skippers, especially from the Southwest and West. I offer 300-400 N.A. species, including many rare taxa, as: Speyeria n. coerulescens, Boloria i. harryi, Problema bulenta, Mitoura hessell, Satyrus ssp, Satyrus kingi, Erora laeta, Electrostrymon angelia, Lycena dorcus dospassosi, Papilio joanae, etc. Ron Gatrell, 126 Wells Rd., Goose Creek, SC 29445.

BOOK WANTED: I am looking for one copy in good to excellent condition of Butterflies and Moths of Newfoundland and Labrador by R. F. Morris, 1980. If you have one of these that you are willing to sell, please contact Tom Seabolt, 710 7th St. SE, Minneapolis, MN 55414.

FOR SALE: Butterfly bait traps in two forms. For more information contact William G. Ward, 1474 Melbourne Dr. SE, Girard, Ohio 44420-1332 USA or telephone (216) 539-5374

WANTED: Seeds of *Asclepias viridis* (Antelope horn), *Asclepias variegata* (White flowered Milkweed), *A. quadrifolia* (four leaved Milkweed), *A. exaltata* (Poke Milkweed) and *Periploea gracea* (Silk-Vine) in the Milkweed Family, *Asclepias*. Seeds of *Conium chinensis* (Hemlock-Parsley), *P. montanus* (Mountain-Parsley), *L. dissectum* (Lomatium), *Heracleum lanatum* (Cow-Parsnip), *T. barbinode* (Meadow-Parsnip) and *P. nuttallii* (Prairie-Parsley) in the Umbelliferae Family. Seeds of *Epilobium latifolium* (River-beauty), *E. angustifolium* (Fireweed or Wickup) and *E. palustre* (Marsh Willow-herb) in the Willow-herb Family, *Epilobium*. Please send amounts and prices to Randy Robinette, 4800 State Rt. 5, Ashland, Kentucky 41101 USA.

WANTED TO BUY: Papilionidae of Western USA, Mexico and Central America. Possible exchanges for *Parnassius apollo* ssp. from Italy, France and Spain. Brunetti Giovanni, Via Montevettore 10-60100, Ancona, ITALY.

FOR SALE: Surplus butterflies and moths from S.E. Georgia, and from Florida. Many Papilios and Saturniids. I am also willing to trade for Saturniia cocoons or pupae. For price list send SASE to Michael Benton, 3913 B SW 26th Drive, Gainesville, FL 32608.

WANTED: California Dogface (*Zerene eurydice* = *Colias eurydice*) ova and foodplant seeds (*Amorpha californica* and *Amorpha fruticosa*). Would like to hear from knowledgeable persons about rearing *eurydice*. Would also like to obtain ova of *A. polyphemus* from California. Steve Kinder, 11123 McGee, Kansas City, MO 64114. Phone (816) 942-3578.

MEMBERS' COMMERCIAL NOTICES.....

ADAM COTTON, THAI PAPILIO CO, LTD, 41/2 Bamrungburi Road, Tambon Phrasingh, Muang Dist., Chaingmai 50000, THAILAND. FREE new price list of papered Thai butterflies, moths and other insects on request to Commercial buyers only. All specimens with full collecting data, good quality and competitively priced. For economic reasons, we apologize that we cannot supply direct to collectors by post, however visitors are always welcome. We do not supply live insects and do not trade in CITES listed species. Also available are green jewel beetle wing cases for jewelry/decoration purposes. ALSO FOR SALE: World's largest butterfly breeding farm on 5-1/2 acres of land in Chaingmai, Thailand. Please write for details or phone 053-221176 or 053-252136 (home).

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

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JOEL MILLER, P.O. Box 397 (Westside Station), Worcester, Mass. 01602, USA. Phone (305) 435-2243 after 5 p.m. (leave message). Indonesian butterflies from Bali, Borneo, Moluccas, Sumatra, Irian Jaya, Sulawesi, and other islands. *Papilios*, *Delias*, Nymphalids and others. Send SASE with your phone number for further information.

KEN THORNE, P.O. Box 684, Lambeth, Ontario, CANADA N0L 1S0, (Tel. (519) 652-6696). Fine quality Lepidoptera and Coleoptera from around the world. Specializing in World *Papilio*, *Morpho*, Lycaenidae, North American species, including far north. I have items for the specialist and the generalist. Please send \$1.00 for lists and postage. I sell and trade.

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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, Kansas 66044-2373, USA. Phone (913) 843-6212. RIPPLES EDITOR is Jo Brewer, 257 Common St, Dedham, Massachusetts 02026-4020, USA.

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INFORMATION ABOUT THE SOCIETY.....

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

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

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

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

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