

NEWS

of the LEPIDOPTERISTS' SOCIETY

No. 4 July/Aug 1982

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USA

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LARAMIE, 1982

The approximately 125 members who registered for the 1982 Annual Meeting in Laramie found the trip well worth the effort. The planning was flawless, the facilities were both comfortable and functional (once the moderators learned how to dim the lights) and the weather left nothing to be desired.

In particular, the scientific sessions were of very high caliber, and the varied program held something of interest for everyone: the Behavioral Ecology Symposium, with stimulating papers by Deane Bowers, Katherine Williams, Nancy Stamp, Carol Boggs, Joel Kingsolver, and John Smiley — not to mention Larry Gall's rapid-fire presentation on Connecticut Catocala, delivered in a manner to make the average tobacco auctioneer green with envy (please send Larry your surplus saltines!); the Arctic & Rocky Mountain Symposium, with papers by Karolis Bagdonas, Jon Shepard, Steve Kohler, Cliff Ferris, Bob Pyle, and Don LaFontaine; assorted papers on taxonomy, behavior, and population dynamics by Lee & Jackie Miller, David McCorkle, Ben Landing, Austin Platt, and Keith Brown. "Notes on a New Species of Narraga (a diurnal geometrid) from Georgia", presented by C. Covell for the discoverers Irv Finkelstein and Abner Towers, pointed up the fact that there are still some new ones out there waiting to be found, even in the well-collected east. Travelogues on Mexico, Ecuador, and the Dominican Republic by Stanford and Covell provided interludes of relaxation.

One of the best sessions (from the point of view of a moth-man) was the roundtable on the Noctuoidea by Don LaFontaine, Bob Poole, George Godfrey, and Tim McCabe. Not only were the presentations lively and entertaining, but the immense difficulties in ascertaining reliable relationships among species were made clear. It would appear that the only thing that will establish a "final" clarification will be The Bomb. Unfortunately, only 31 people saw fit to attend this session.

The Sunday session produced three fine papers: Mark Scriber on geographic variations in foodplant utilization by P. glaucus; Bob Robbins on presumed pheromone communication between male lycaenids; and David Wagner on mating and flight behavior in some hepialid species. This last paper earned David the John Adams Comstock Award, presented annually by the Pacific Slope Section for the best paper by a student at any level of training.

Social events were a great success. A Thursday night open house at Cleff Ferris' home gave opportunities for conversation, conviviality, viewing Cliff's collection, and black-lighting for the prairie moth fauna. Friday night's wild-game cookout at



GROUP PICTURE: LARAMIE, WYOMING. 1982. 1-D.Mullins 2-W.Bagdonas 3-D.Ahrenholz 4-W.Howe 5-C.Ferris 6-E.Metzler 7-E.Hodges 8-P.Milner 9-N.Stamp 10-K.Williams 11-S.Shepard 12-C.Boggs 13-/J.Smiley 14-? 15-?R.Rosche's son 16-? 17-? 18-? 19-? 20-I.Finkelstein 21-T.Dooley 22-P.Dooley 23-S.N.A.Jacobs 24-S.Nicolay 25-G.Marrone 26-S.Marrone 27-D.Winter 28-J.Brewer 29-F.Preston 30-J.Scott 31-R.Poole 32-C.Covell 33-?D.Jewett 34-?S.Jewett 35-R.Pyle 36-A.Platt 37-M.Epstein 38-L.Gall 39-G.Harjes 40-K.Donahue 41-J.Clarke 42-T.Clarke 43-? 44-D.Bowers 45-? 46-K.Brown 47-?J.Kingsolver 48-D.Lafontaine 49-R.Rosche 50-J.Shepard 51-W.Tilden 52-R.Robbins 53-H.Tilden 54-R.Stanford 55-L.Stockton 56-A.Stockton 57-L.Brower 58-C.Kendall 59-J.Donahue 60-S.Kohler 61-R.Kendall 62-?S.Spomer 63-T.Clifford 64-B.Landing 65-J.Preston 66-K.Wilkinson 67-R.Leuschner 68-J.Lane 69-N.Curtis 70-D.McCorkle 71-L.Miller 72-K.Bagdonas 73-Mrs.J.Powell 74-S.Steinhauser 75-G.Godfrey 76-J.Powell 77-R.Klopinske 78-J.Hinchliff 79-?G.Spomer 80-? 81-? 82-? 83-J.Miller 84-? (Determinations courtesy of Cliff Ferris. Any additions and emendations submitted by members will appear in next issue of the NEWS. We apologize for the fact that the "overlay" came out looking rather like a bunch of 18th century headstones!)

Rancho Bagdonas provided opportunity for more of same, for those who could still bend or breathe after a lavish feast of trout, venison, elk, ham, turkey, and all the accessories. Charlie Covell's pictures of the recent Peruvian trip provided after-dinner entertainment.

The Saturday night Banquet appealed to gourmet and gourmand alike. Lincoln Brower's presidential address, updating progress and problems in protecting the Mexican Monarch overwintering site, was timely and inspiring.

The annual door-prize drawing, mastered by Charlie Covell and assisted by diminutive facsimiles Robert and Katherine, provided valuable and beautiful bonuses to many lucky members. Karolis Bagdonas received a special

award — a genuine pinwheel butterfly cap — in recognition of his role as ringleader of the "Flying Circus".

With the annual business session (and that of the Pacific Slope Section) Sunday a.m., the formal portion of the meeting came to a close. Outgoing president Lincoln Brower did not hand over the gavel to president-elect Charles V. Covell, Jr., because he had left it in Gainesville. In its absence he presented him with a set of Deely-bopper antennae, which actually did more for Charlie than the gavel would have.

But all was not over. An afternoon picnic in the lower elevations of the Snowy Range (the snow was not yet off the higher elevations) gave opportunities for some

successful collecting. Then on Monday, those who had not had to disperse were treated to an excellent trip west to Battle Canyon in the Sierra Madre Range, where *Speyeria* and lycaenids were among the many species that tested our skills. Some of the party camped overnight at the field-trip site for some excellent blacklighting for moths. There the Donahues, John Lane, et al. were observed "roughing it" with pre-dinner margaritas, charcoal-broiled steaks, and red wine with dinner. Californians camp in class!

Another major success — due to the careful planning and tireless labors of Cliff Ferris, Karolis Bagdonas, and the Flying Circus, to mention only a few. And don't forget Peewee, who caught all those trout.

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1982 KARL JORDAN MEDAL AWARDED TO JERRY POWELL.....

Jerry A. Powell was born 23 May 1933 in Glendale, CA, and received his B.S. in 1955 and Ph.D. in 1961 from the University of California, Berkeley. His professional experience includes two visiting research associateships: Smithsonian Institution, 1970-71, and Commonwealth Scientific & Industrial Research Organization, Canberra, Australia, 1980-81.

He has been a member of and held offices in various professional societies, including Xerces Society, Board of Directors; Pacific Coast Entomological Society (Asst. Editor, Pan-Pacific Entomologist, 1957-58, 1960-62; Acting Editor, 1959-60; Editor, Memoir Series, 1965-70, 1973-78; Vice-President 1963, President 1964); Lepidopterists' Society (Journal Editor, 1964-69, Supplement Editor 1969-71, Executive Council, 1973-75); Fellow, California Academy of Science.

Dr. Powell has had varied professional experience from his days as a Junior Entomologist at the Experiment Station (1961) culminating in his present position as full Professor (1973) in the Department of Entomological Sciences, University of California, Berkeley. One of his finest contributions to the science is the California Insect Survey on which he served as project leader (1963-81) and which produced the publication "California Insects", co-authored with Dr. Charles Hogue (1979). He continues to serve as co-project leader of this state survey project.

With more than 130 research publications to date, including three books, Dr. Powell's work on the biosystematics, biogeography, and evolution of Lepidoptera, primarily small moths, is well known. In addition his observations of field behavior in insects, especially ground-nesting wasps and predaceous Diptera, have served as a basis for innovative areas of research.

The Karl Jordan Medal for 1982 is awarded to Dr. Powell for his imposing studies on the Ethmiidae culminating in the 1973 revision of the new world fauna. These superior research publications serve as models and standard references in systematics and field biology.

In Jerry's Karl Jordan Address he discussed a number of species of the Ethmiidae, a family of small but attractive moths in the Gelechioidea, which occur mostly in seasonally dry areas of the northern Neotropics. Problems of foodplant selection (among the Boraginaceae) and dealing with diapause were outlined in detail for this fascinating group.

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FINANCIAL SUMMARY, CALENDAR YEAR 1981.....

1. Net Assets, end of 1981:

Checking Account	4,915.92
Savings/Loan Accounts	39,145.98
Petty Cash	0.00
Total	44,061.90

2. Allocation of Funds:

Life Member Reserve, @ \$140	13,020.00
Commit to NEWS Expense to come	1,042.47
Commit to Journal Exp. to come	18,517.35
1982 Income received early	8,208.00
Publication Fund	5,440.21
Memoir No. 2 Advance Payments	0.00
Illustration Fund	133.50
Subtotal	46,361.53
Operating Balance of Society	-2,299.63
Total	44,061.90

3. EXPENSES for 1981

JOURNAL Publication	24,290.67
NEWS Publication	6,668.37
Supplies/Postage	345.06
Mailing List Maintenance	634.94
Meetings	48.41
Back Issue Handling	1,297.50
Miscellaneous	110.69
Sale of Mailing List	164.01
Dues Notice	555.75
Total	34,115.40

4. INCOME for 1981

Member Dues	25,070.32
Institutional Subscribers	3,339.00
Air Mail	321.00
Page Charges	1,677.00
Back Issue Sales	1,942.18
Sale of List	627.70
Other, including refunds	32.90
Interest	3,277.85
Endowment, Life Member	1,130.00
Total	37,417.95

For comparison, the 1980 figures may be found in the 1981 NEWS, page 71.

Ron Leuschner, Treasurer



Notices

IMPORTANT INFORMATION RE UPCOMING ISSUES.....

The Nov/Dec issue of the NEWS, as in each even-numbered year, will consist solely of the membership list and will contain no notices, ads, research requests, etc.

This membership list also includes your statement as to your interests in the field of lepidopterology. If you wish changes made in your statement as recorded in the 1980 list, send these changes directly to Julian Donahue, L.A. County Museum, 900 Exposition Drive, Los Angeles, CA 90007, USA, before 30 September 1982.

In order to reduce the interval between the issues for Sept/Oct 82 and Jan/Feb 83, Sept/Oct will be intentionally delayed, and will reach you more than two months after this present issue.

If you have notices, ads, or other requests you wish printed before 1983, they should reach me no later than Friday, 1 October 1982.

Ed.

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ALLYN MUSEUM SITUATION CLARIFIED.....

Mr. Jay Stees' letter on page 43 of the NEWS requires a few words of explanation. A museum is not always a site

of public exhibition; it may also be a repository for objects. It is the latter definition that fits the Allyn Museum of Entomology, and the objects of deposit here are butterflies and moths. The Editor was correct in asserting that we are strictly a research institute, and the staff does not conduct tours of the facility without advance planning. By contrast, we are always available to qualified researchers for specific projects, and we have many such workers visit the museum each year. It should be stated also that the Allyn Museum of Entomology is now a division of the Florida State Museum. Our only exhibit facilities are in the main FSM building in Gainesville, and in the Sarasota Jungle Gardens, which lies adjacent to the Allyn Museum's Sarasota operation.

Lee D. Miller

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HELICONIANS SOUGHT FOR NATIONAL AQUARIUM (!)....

The National Aquarium In Baltimore is seeking to obtain live cultures of heliconians and passionflower plants to be incorporated into a rainforest exhibit. Anyone with specimens for sale, trade, etc., or with cultural suggestions, please contact David Robbins, National Aquarium In Baltimore, Pier 3, 501 E. Pratt St., Baltimore, MD 21202 (301-727-3000 x 259).

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COLLECTION OF CLARKE & SHEPPARD TO BRITISH MUSEUM.....

The Department of Entomology of the British Museum, Natural History, has received a collection of 2700 butterflies formed by Sir Cyril Clarke, KBE, FRS, and Professor P. M. Sheppard, FRS. The collection is the outcome of years of breeding butterflies in order to investigate genetic differences between species. The research, which still continues, has been largely concerned with mimicry and has involved Papilionidae from Britain, the tropics, and North America, and some tropical Nymphalidae.

The collection is accompanied by bound copies of relevant papers and an explanatory catalogue, a non-specialist glossary, and copies of early correspondence; it is available to all qualified scholars and researchers.

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NEARCTIC ENTOMOLOGY MEETING.....

A combined meeting of the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of Ontario, will be held 29 November through 3 December, 1982, at the Royal York Hotel, Toronto, Ontario, Canada.

The theme, "Nearctic ENTomology: Continental Cooperation", will be the focus of formal and informal conferences, workshops, symposia, invitational papers, and a special open session for the general public. A special student competition will highlight the roles students play in the three entomological societies.

Further information is available from Jeffrey A. Gorman, ESA, 4603 Calvert Road, College Park, MD 20740, USA.

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IV EUROPEAN CONGRESS OF LEPIDOPTEROLOGY.....

The Ministry of Culture and the Biological Department of the Hungarian Academy of Sciences have approved the IV European Congress of Lepidopterology, to be held in Budapest in April 1984.

Dr. Lancelot A. Gozmany, Termesztudományi Múzeum, Baross utca 13, H-1088 Budapest, Hungary, will serve as head of the local committee in charge of this international event, acting in close cooperation with the Council of the Societas Europaea Lepidopterologica. Further information can be obtained from Dr. Miguel R. Gomez Bustillo, Torre de Madrid 50-12, Madrid 13, Spain.

CARNEGIE MUSEUM POSITION OPEN.....

The Carnegie Museum of Natural History, Section of Entomology, has a one year Postdoc in Lepidoptera. This position will be available this September for 12k/yr and involves 50% research and 50% curatorial work with specimens and literature collections. Persons with a Masters degree who have curatorial experience in Lepidoptera are also encouraged to apply. Send resume, 3 letters of recommendation, to Dr. Ginter Ekis, Section of Entomology, CMNH, 4400 Forbes Ave., Pittsburgh, PA 15213.

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RESEARCH REQUESTS.....

❖ HAIRSTREAKS: Have you reared any Neotropical hair-streaks (including those species whose ranges reach into southern Florida & Texas)? I am compiling a list of food-plant records for these butterflies, and would appreciate unpublished data for inclusion in the list. Robert Robbins, Dept. of Entomology, NHB 127, Smithsonian Institution, Washington, DC 20560.

❖ ARCTIIDAE: Want any information regarding the various defenses of arctiid moths; presence or absence of: 1) defense postures; 2) reflexive bleeding; color of the eliminated fluids and position on the thorax at which the bleeding takes place; 3) tymbals and microtymbals; 4) evasive manoeuvres in the presence of ultrasonic impulses, etc. I would prefer information mainly on North American species (including Mexico), but can use information on species from other parts of the world. All correspondence is welcome, and all significant information will be acknowledged. James K. Adams, Dept. of Entomology, Snow Hall, University of Kansas, Lawrence, Kansas 66045.

❖ EUPHYDRYAS: Want oviposition, prediapause, and post-diapause foodplant records for all subspecies of Euphydryas chalcedona within California and adjacent states, for paper on geographic pattern of foodplant choice. Raymond R. White, 788 Mayview Ave., Palo Alto, CA 94303.

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ADVICE NEEDED RE SEASON SUMMARY.....

The Season Summary, as years go by, has become increasingly lengthy, increasingly cryptic, and harder and harder to read as financial restraints lead to increasing reduction in type size. A fresh look is in order.

What are the functions of the Summary? To record new species/range data? To document new behavioral and biological observations? To record distributional and population variations from year to year? To indicate productive collecting sites? To share with others "what I did on my vacation" or what was new and exciting on the home lot? Is "what's new" really new, or is it just a first time observation on the part of a particular contributor, the uniqueness of which the coordinator may or may not be able to assess? Or other functions not even touched on here?

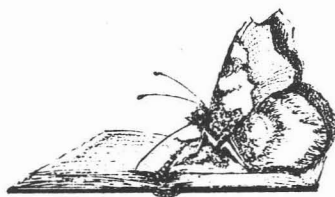
We need feed-back from all Lep. Soc. members — amateurs and professionals at all levels of experience — in order to learn what you want the Summary to do for you, and what you think it should properly include as a permanent scientific record. How might we economize without sacrificing value? There will be no questionnaire: questionnaires are too restrictive when it comes to eliciting opinions. Your letter is what we need.

In this connection, the time has come to compile a directory of people who are keeping extensive and reliable state and regional lists for moths as well as butterflies, for assistance in the process of filtering submitted data. A few examples of such lists are those of Ed Brower for Maine, John Fales for Maryland (Rhop.), the late Charles Kimball for Florida, Ray Stanford for the Rockies (Rhop.), etc. If you are maintaining such lists for your area, or can indicate others who are, please send your/their names

along to us, even if you think the work may be well-known, or, on the other hand, even insignificant.

The 1982 Season Summary, to appear in March 1983, will presumably follow the current format. The following year, depending on your input and Executive Council decisions, improvements should be possible. So jot down your thoughts and send them to me at 257 Common Street, Dedham, MA 02026.

Dave Winter



Books

"BENJAMIN WILKES, THE BRITISH AURELIAN; Twelve New Designs of English Butterflies and Directions for Making a Collection"; with an essay by R. S. Wilkinson. E. W. Classey, Ltd. 1982 (Classica Entomologica No. 3) 31x34 cm. 11 pages on 6 sheets and 14 facsimile plates in a card folder. Limited edition of 475 numbered copies. £20.00.

Anyone seeking the roots of the science of lepidopterology will find information and highlights in this portfolio which are probably not easily available elsewhere.

The Aurelian Society, of which Benjamin Wilkes became a member in about 1738, changed his uninspiring life as a "painter in oyls" into an absorbing career as a butterfly artist, drawing "English Caterpillars, Aureliae, Flies, etc., that he could anyways obtain". The name Aurelia, and the name of the Society, may have been inspired by the bright metallic gold color of some of the chrysalids.

The eleven-page essay on the history of the "Twelve New Designs of English Butterflies", which precedes the prints, is a capsule history of the beginning of the serious study of butterflies and moths in England, starting with the posthumous publication of John Ray's "Historia Insectorum" and concluding with the Cornhill fire which destroyed the Swan Tavern and all the records and collections of the Aurelian Society in 1748. It also details the search for the original drawings (completed by Wilkes in 1741-42). The eventual decision was to publish the later and more desirable Cadington Bowles edition, which included footnotes.

Apparently in the early days it was customary to display one's butterflies and moths as decorative designs pinned properly and set in square boxes. The "Twelve New Designs" were produced to conform to this practice. Seen at a distance, each design resembles a hugely magnified snowflake. Only when scrutinized can the accuracy and delicacy of Mr. Wilkes' drawings be appreciated. A legend at the bottom of each page gives the common names and bits of information regarding each species, of which about one-third are butterflies and the rest moths.

Also included is a reprint of the only known original sheet of Wilkes' directions for making a collection, published in 1742. All the original f-like ss are present. "Mufcheto Gauze", translated, becomes Mosquito Gauze, and butterflies are referred to throughout as "Flies". References are made to such items as branches of broom to capture butterflies (Thomas Moffat, 1634), pincushions carried into the field for instant spreading, a device known as a clapnet, and many more oddities.

This is a fascinating portfolio in which one may browse for hours and at the same time learn a great deal.

Jo Brewer

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"RARE AND ENDANGERED BIOTA OF FLORIDA", Vol. 6, Invertebrates. Edited by Richard Franz. June 1982, University Presses of Florida, 15 NW 15th St., Gainesville, FL 32603, USA. \$7.50 (US)

This is a comprehensive summary of rare/endangered Florida invertebrates, published in an attractive 130 page paper covered book with distribution maps and b/w illustrations. Since the book covers such a wide biological range, the amount devoted to Lepidoptera is necessarily brief. Seven species are discussed: one endangered, two threatened, one rare, and three of special concern. Six of these are butterflies (*H. ponceanus*, *C. maesites*, *E. atala florida*, *A. floridalis*, *E. tatila tatalista*, *S. acis bartrami*) and there is one moth (*Proserpinus gaurae*). Anyone whose interests are wider than Lepidoptera will enjoy this summary of protection and status of Florida invertebrates.

Ron Leuschner



EPIDEMIA EPIXANTHE IN THE ALLEGHENY MOUNTAINS.....

.....A WEST VIRGINIA STATE RECORD

On 5 July, 1982, two colonies of the cranberry-feeding Lycaenid *Epidemia epixanthe* were discovered in the Allegheny Mountains of northern West Virginia at Cranesville Swamp (Preston Co.) near the WV-MD border. This follows in the wake of the report of a Maryland (Garrett Co.) colony found last year (19 July, 1981) in the headwater glades of the North Branch of the Casselman River (NEWS 1982 p. 29, P. Keane). The colonies lie in the Allegheny Plateau Section of the Appalachian Province and represent a significant range extension for *epixanthe*, which is generally restricted to more northerly cool bogs and sandy heathlands of the coastal plain.

The Cranesville Swamp is a montane bog (2550' elev.) whose vegetation shows distinct northern boreal affinities. The area has been well-known to botanists and ecologists for years (Atlantic Naturalist 13:72-84, 1958) and through the efforts of The Nature Conservancy the site was certified as a Natural Landmark by the U.S. Dept. of Interior in 1965. The area is shown in the s.e. corner of Sang Run Quadrangle (USGS topo) as "Pine Swamp", divided into two sections. The north section occupies the headwaters of Muddy Creek, while the south section parallels White Oak Springs Run on the WV-MD border. A sizeable *epixanthe* colony was found in the south section in close association with luxurious growth of *Vaccinium macrocarpon*. Immediately after entering the bog from the WV side, a few fresh ♂♂ and ♀♀ were encountered. Penetrating farther into the bog, it soon became apparent that the colony was in peak flight, as scores of individuals were quickly sighted. They were easily photographed on their foodplant as they sunned and nectared. A short series was collected. The regional state boundary monuments, dated 1910, demonstrated by their position that the state line bisected the colony. A second smaller colony was found in the north section of Cranesville Swamp immediately beneath the power lines that traversed the bog. The cranberry in this section was quite depauperate and no doubt represented recent colonization following disturbance of the tall-shrub zone by power-line construction. A single fresh male was taken here, apparently a stray from a colony close-by. Threatening clouds limited further exploration.

These recently discovered *epixanthe* colonies on the Allegheny Plateau are a full 250 km. south of the last Pleistocene continental ice border. They may have been isolated into discrete units considerably earlier than colonies that occupy bogs in the glaciated terrain to the north. If this is so, they would represent some of the "oldest" *epixanthe* colonies known. Peat borings and pollen stratigraphy have been examined at both Cranesville Swamp (Castanea 33:137-149, 1968) and the Maryland site (Quaternary Res. 2:506-530, 1972). These studies indicate that when the ice sheet stood at its maximum position subarctic tundra vegetation extended at least 300 km. south of the ice border at 2700' on the Allegheny Plateau. Great spruce forests were known to grow at adjacent lower elevations. As the ice sheet retreated, the vegetation underwent a series of changes. About 12,700 years ago on the plateau, the tundra was replaced by an open spruce

woodland. Two thousand years later, this boreal spruce woodland had been replaced by a mixed coniferous-deciduous forest. Eventually a full deciduous forest came to occupy (and still does) most of the plateau. The post-glacial history of the plateau was also punctuated by the frequent development of bogs (or "glades", as they are known locally). Cool fast-moving mountain streams dissected through soft rock to reach underlying resistant rock indigenous to the plateau. After doing so, these streams found that drainage outlets were lacking or very poor at best. As a consequence, water was impounded and many bogs developed in the stream headwaters and stream margins. These bogs are significant from the paleoecologic point of view, since they represent some of the earliest refugia for relict colonies of northern plants and animals like *epixanthe*. Comparative genetic studies of *epixanthe* populations from this region with those from more northerly stations may prove very helpful in understanding this butterfly's glacial and post-glacial history.

(Special thanks are extended to Dr. Earl L. Core, retired Professor of Botany, WVU, Morgantown, for directions and valuable information regarding the Cranesville site.) David M. Wright, M.D.

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For reasons not entirely clear, your editor twice managed to avoid indicating that the item on the foodplant of *Euphydryas chalcedona* on page 5 of the NEWS for January was contributed by Steven W. Austin.

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New Members



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Buy Sell Exchange

Items submitted for inclusion in this section are dealt with in the manner outlined on page 9 of the 1982 NEWS (Jan/Feb Issue). It was decided several years ago that prices would generally be excluded from the printed notices, except for the prices of lists and printed matter. "SASE" calls for a self-addressed, stamped envelope. Notices will be printed once, unless entry in two (maximum) successive issues is requested.

EXCHANGE ONLY: 1 ♂ Papilio machaonides 1A condition and a few 2B ♂♂; a few other rare and semi-rare neotropical Papilionidae. Want other rare neotropical Papilionidae. Please send list of offerata/desiderata. Also wanted: Rothschild & Jordan, "A Revision of American Papilios". Rick Rosycki, 5830 S. McVicker Ave., Chicago, IL 60638
 EXCHANGE: need N.A. butterflies, particularly from the west coast, in exchange for other N.A. material. Particularly interested in series of A1 Lycaenidae; other families needed also. Ken Thorne, Mill Street, Delaware, Ontario, CANADA NOL 1E0.
 FOR SALE: Surplus butterflies from Ontario, Manitoba, Alberta, B.C., Yukon, & Jamaica. List on request. Norman A. Tremblay, Shadow Lake, Rd. 9, Norland, Ontario, CANADA KOM 2L0.
 WANTED: Anyone wishing to exchange Lepidoptera, please write me and send me your exchange list to receive mine. Tom Greager, R.D.#6, Box 56-B, Greensburg, PA 15601.
 BUY: Ornithoptera, Agrias, Parnassius, Carabus, Goliathus, Dynastes, Megasoma, Lucanidae, etc.; butterflies and beetles worldwide. Yoshiaki Fumari, 97-71 komizo-Iwatsuki-SHI, Saitama-KEN, 339 JAPAN.
 FOR SALE: 14 reprints on Heliconiinae, \$20. Oakley Shields, 4890 Old Highway, Mariposa, CA 95338.
 FOR SALE: N.A. arctic and alpine species including Parnassius, Papilio, Colias, Oeneis, Erebia, & Boloria. Also A1 Jamaican material. John Johnstone, Dickson Hill Road, RR2, Markham, Ontario, CANADA L3P 3J3.
 FOR SALE: Cocoons of Graellsia isabella; available now; SASE to A. R. Spokas, P.O.Box 193, Atco, NJ 08004.
 EXCHANGE OR BUY: Living ova of butterflies and Phasmodae (walking sticks, leaf insects). Andreas Gahr, Mühlenbrinkweg 1, 4937 Lage/Lippe, WEST GERMANY.
 WANTED: Information regarding the best months and locations for collecting Lepidoptera in Ecuador. David F.

Jamieson, 325 N.W. 134th St., Miami, FL 33168.
 WANTED: Paped specimens of US butterflies: Neophasia terlooti, Papilio indra, Papilio oregonius; Saturniidae: Antheraea polyphemus oclea from Arizona. Les Sielski, P.O.Box 21, Wheeler, IN 46393.
 FOR SALE: Butterfly Museum & Gift Shop on only road to National Park in Utah. Living quarters included. 300' frontage on state hwy; ½ million visitors annually. Marlen McWilliams, P.O.Box 199, Panguitch, Utah 84759.
 SERIOUS amateur, middle-aged English collector, would like to correspond with an American of similar 'line', with a view to exchanging British & European moths and butterflies for American specimens and possibly livestock. Peter Waite, The Four Horseshoes, Cockpole Green, Wargrave, Reading RG10 8NT, ENGLAND.
 WANTED: Vanessa (no cardui) from India & Asia; neotropical Hypanartia; African Antanartia; Lelex limenitoides. Must have accurate data. Will buy, or exchange So. Californian butterflies. Thomas E. Dimock, 111 Stevens Circle, Ventura, CA 93003.
 FOR SALE OR TRADE: LeMoult 20 color plates of Morphos in a wrapper; perfect condition: "Splendeur et Enigmes des Morphos", Paris 1963. Trade for other books or tropical butterflies. Anthony Ortegon, 1619 N. Greenwood, Pueblo, CO 81003.
 WANTED: "Butterflies of the West Indies" by N.D.Riley, & "Dictionary of Butterflies of Moths" by Watson & Whalley. Robert Diaz, Box 1732, APO Miami, FL 34003.
 WANTED: to exchange identified Morphos with complete, reliable data. Jacques Nieszporek, 6.71 rue Paul Eluard, 92230 Gennevilliers, FRANCE.
 WANTED: any hepialids from the New World or Holarctic; am especially interested in material from eastern Europe, Asia, and western North America. All life stages, pinned or in liquid preservative; seconds are welcome. In exchange can offer many western N.A. taxa, e.g., Papilio, Erebia, Boloria, Speyeria, saturniids, sphingids, determined microleps, etc. All correspondence welcomed. David Wagner, 218 Welman Hall, Dept. of Entomology, Berkeley, CA 94720, USA.

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MEMBERS' COMMERCIAL NOTICES.....

ENTOMOLOGICAL INSTITUTE: KAMPER HANDELSGESELLSCHAFT, Weillgasse 3, A-1191 Wien, AUSTRIA (Prof. E. M. Kamper): dealers in insects and entomological equipment; also want collector-contacts in Neotropics and S.E.Asia. Send 2 international postal coupons for catalog.
 TRANSWORLD BUTTERFLY CO.: Apartado 7911, San Jose, Costa Rica (Simon Ellis). Morpho, S. American & British specimens; live pupae from butterfly farm. Regular monthly catalogs/newsletters \$6; catalog only, \$1 cash in advance. Ship from Costa Rica & Britain.
 SCIENTIFIC TRANSLATIONS, P.O.Box 14200, Washington, DC 20044 (John Heppner). Translation of scientific articles into English at reasonable rates; turnover time 1-3 weeks for short articles. Currently do German, Dutch, & Spanish, others on request.
 MRS. CHANG PI-TZU, P.O.Box 873, Taipei, Taiwan, R.O.C. Formosan moths, butterflies, and other insects; sexual mosaics, aberrations, rare butterflies; one sexual mosaic of Actias sinensis; ova & cocoons of A. atlas, Eriogyna pyretorum, & Actias sinensis; wholesale discounts.
 GARDNER GOODRIDGE, 2932 Broxton Rd., Shaker Heights, OH 44120, USA: collapsible bait traps, as in NEWS for May 1980 but with side zipper; all weatherproof brass and nylon fittings.
 KEN THORNE, Mill St., Delaware, Ontario, CANADA NOL 1E0 (519-652-5194): Selling worldwide butterflies, specializing in Papilio, Morpho, & N. American. Best quality, excellent prices; lists on request.
 MICHAEL K. P. YEH, P.O.Box 32, Ipoh Garden P.O., Ipoh, MALAYSIA: selling Malaysian, Indonesian, & Thai butterflies, beetles, & insects. Wholesale only, price-list on request on dealer's letterhead.

from: The Lepidopterists' Society

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DEADLINES: Material submitted for inclusion in a specific issue of the NEWS should reach the NEWS EDITOR no later than the 15th of the preceding even-numbered month. Reports for the SEASON SUMMARY must reach the ZONE COORDINATORS (listed on front cover of this issue) no later than 31 January.

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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 the full dues for the current year (\$18.00 US), together with mailing address and a note about areas of interest in Lepidoptera; student membership (must be certified) \$12; sustaining membership \$25. 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 list will comprise the last issue of the NEWS in even-numbered years.

Information on membership may be obtained from the TREASURER, Ron Leuschner, 1900 John St., Manhattan Beach, CA 90266, USA. Changes of address must be sent to the TREASURER, and only when the changes are permanent or long-term.

Other information about the Society may be obtained from the SECRETARY, Julian P. Donahue, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007, USA. Please notify him of any additions or changes in areas of interest for publication in the membership list.

Manuscripts submitted for publication in the JOURNAL are to be sent to the JOURNAL EDITOR, Dr. Thomas D. Eichlin, JOURNAL of the Lepidopterists' Society, Insect Taxonomy Laboratory, 1220 N Street, Sacramento, CA 95814, USA. See the inside back cover of a recent issue of the JOURNAL for editorial policies.

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AVAILABLE PUBLICATIONS OF THE SOCIETY.....

CATALOGUE/CHECKLIST OF THE BUTTERFLIES OF AMERICA NORTH OF MEXICO (Memoir No. 2), Lee D. Miller & F. Martin Brown: includes references to original descriptions and location of type specimens. Members and subscribers, \$10 cloth, \$5 paper; non-members, \$17 cloth, \$8.50 paper, postpaid. Order from Ron Leuschner, Treasurer, 1900 John Street, Manhattan Beach, CA 90266, USA.

COMMEMORATIVE VOLUME, 1947-1972: a 25-year review of the Society's organization, personnel, and activities; biographical sketches; JOURNAL 25-year cumulative index by author, subject, and taxon; clothbound. Members and subscribers, \$6; non-members, \$10, postpaid. Order from Ron Leuschner, Treasurer, address above.

BACK ISSUES of the JOURNAL and of the NEWS of the Lepidopterists' Society: order from Ron Leuschner, Treasurer, address above. A list of the available issues and their cost, postpaid, is in the NEWS for Nov/Dec 1981, page 74.