

NEWS

of the LEPIDOPTERISTS' SOCIETY

Number 6

Nov/Dec 1977

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Spreading Board: Dr. Charles V. Covell, Jr., Dept. of Biology, Univ. of
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A Short Lived Phenomenon

On the afternoon of Sunday, September 18th, my wife and I (and a half dozen neighbors) witnessed a spectacular mass migration of Monarch Butterflies. We live in the Squantum section of Quincy (Mass.). Squantum is a peninsula separating Dorchester Bay, a part of Boston Harbor, from Quincy Bay to the South. It appeared that our home was on the direct center of the flight path.

My wife, sitting with friends on an open porch about four o'clock in the afternoon, first noticed a pair of Monarchs flying ten to twelve feet above the ground--then another pair. In looking up, she saw dozens more. She called me from the house. By the time I was outside, the air was literally filled with them.

The temperature was in the mid-seventies, humidity about 70% and the sky 50% cloud covered. It had rained earlier in the day. In the fifty minutes we watched them, I estimate that between 100,000 and 200,000 flew over. They ranged in height from ten feet above ground level to perhaps as much as 250 feet; the average height was between 25 and 35 feet. An occasional butterfly alighted for a few seconds on flowers in our front yard. Our street is at the highest point in Squantum--about 80 feet above sea level. The width of the swarm was at least 200 yards; one hundred yards being close to the limit of my ability to distinguish them to the right and left of the direction of flight.

The flight direction was from slightly east of northeast to the west southwest. Their average speed, although individual butterfly flight patterns were anything but "bee-lines", was about 8 to 10 miles per hour. Groupings were random. The majority appeared to be flying singly, but individuals would appear to team up with others for a while, then separate and fly on alone. Sometimes there would be six to ten together in a fairly tight pattern. In numbers, they were fairly uniformly distributed for almost an hour. Shortly before 5:00 P.M., the flight seemed to end abruptly, with only a few stragglers. Five minutes later, no more could be seen.

Outside of ducks and geese (flying at high levels), the closest I had previously come to observing a mass migration was the daily flights of starling just before dusk, principally in the spring of the year. Their destination was the Fore River Bridge (between Quincy and North Weymouth) for overnight roosting--an airline distance of only 4½ miles. This butterfly "armada" was far more impressive.

The following day, I called Boston's Museum of Science. While somewhat interested, they suggested I report my observations to Harvard's Department of Comparative Zoology. Dr. Silberglid suggested that I also contact the Audubon Society in Lincoln and that the Lepidopterist Society Editor, Mrs. Jo Winter of Dedham, would want to know details of the swarm. A conversation with her prompted the writing of this report.

John R. Sharp, 54 Knollwood Rd, Squantum, MA 02171

(This mass migration was witnessed by several other residents of Squantum, and was reported briefly in a Boston newspaper. Reports of any sightings of a similar phenomenon, or of a significantly large congregation of monarchs, either north or south of Squantum, MA, would be greatly appreciated by the editor. Please include date & time of day.

Jo Brewer, Ed.

NAMES AND ADDRESSES OF ZONE CO-ORDINATORS

- ZONE 1 (Southwest): Arizona, Nevada, California. R.L. Langston, 31 Windsor Av, Kensington CA 94708
- ZONE 2 (Pacific Northwest): Oregon through British Columbia. Jon Shepard, R.R. #2, Nelson, B.C.
- ZONE 3 (Rocky Mountain region): Alberta, Montana, Wyoming, Utah, Colorado, New Mexico. Donald Eff, 445 Theresa Dr, Fairview Estates, Boulder, CO 80302.
- ZONE 4 (Great Plains): Saskatchewan, Manitoba, N&S Dakota, Nebraska, Kansas, Oklahoma, Texas. H.A. Freeman, 1605 Lewis Dr, Garland, TX 75040.
- ZONE 5 (Eastern Midwest): Minnesota, Iowa, Missouri, Wisconsin, Illinois, Michigan, Indiana, Ohio, Kentucky, West Virginia. M.C. Neilsen, 3415 Overlea Dr, Lansing MI 48917.
- ZONE 6 (Southeast): Arkansas, Louisiana, Tennessee, Mississippi, Alabama, Florida, Georgia, N&S Carolina, Virginia. Bryant Mather, 213 Mt. Salus Dr, Clinton, MS 39056.
- ZONE 7 (Northeast): Quebec, Maritimes, New England, New York, New Jersey, Pennsylvania, Delaware, DC, Maryland. W.D. Winter Jr, M.D., 257 Common St, Dedham, MA 02026.
- ZONE 8 (Far North): Alaska, Northern Canada, Newfoundland, Greenland. Kenelm Philip, SR Box 10181 6 mile Chena Ridge Road Fairbanks, AK 99701
- ZONE 9 (Northern Neotropics): Mexico, Central America, Antilles. Eduardo C. Welling M., Apartado, Postal 701, Merida, Yucatan, Mex.
- ZONE 10 (South America.) (no co-ordinator. Any volunteers?)
- ZONE 11 (Ontario): Q.F. Hess, 11 Esgore Drive, Toronto 12 CANADA.

RESEARCH REQUESTS

RELIABLE DATA WANTED regarding species records, flight dates, localities, elevations, habitats, and host plants for a master's thesis on the butterflies of the Guadalupe Mountains (Culbertson County, Texas). All correspondence will be acknowledged. Jeff Robb, Dept. of Entomology, Texas Tech University, Lubbock, TX 79409.

BUTTERFLIES OF THE WORLD in multi-volumes by Region is now being prepared by Bernard D'Abrera. I would appreciate any information regarding food plants, early stages of any butterfly from anywhere. (No skippers, please). All information acknowledged in the final publication. Vol II: Butterflies of the Ethiopian Region (Afro-Tropical) now in preparation. Vol III (Oriental Region) to follow shortly after; Vol IV & V (Neotropical Region) 18 months away. Any separates of new descriptions, behavior etc. greatly appreciated. Bernard L. D'Abrera, Dept of Entomology, British Museum of Natural History, S. Kensington, London SW7 5BD ENGLAND.

PUBLICATION

The LEPIDOPTERISTS' SOCIETY - COMMEMORATIVE VOLUME. 374 ps. Hard bound. in blue cloth. Contains a complete index for the first 25 volumes of the JOURNAL of the Lepidopterists' Society; History of membership, publications, annual meetings, field summary; statistics of officers past and present. Liberally illustrated with photographs of significant past happenings. Copies of the Volume have already been mailed to subscribers and contributors. The remaining copies are now available to members of the Society at \$6.00 per copy, and may be obtained from Dr. Charles V. Covell Jr., University of Louisville, Louisville, KY 40208. Price for non-members is \$10.00.

It is with great regret that we announce the death of

WILBUR S. MCALPINE, formerly a charter member and sustaining member of the Society, who died on 30 July, 1977, at the age of 88.

of

DR. WILLIAM HOVANITZ, editor and publisher of Journal of Research on the Lepidoptera, who died suddenly on 13 September 13, 1977

and of

CHRISTOPHER HENNE, of Pearlblossom, California, a noted collector and a sustaining member of the Society.

Complete obituaries will appear in the Journal.



MINUTES OF THE 28TH ANNUAL MEETING OF THE LEPIDOPTERISTS' SOCIETY, concurrent with the 24th Annual Meeting of the Pacific Slope Section.

The 28th Annual Meeting of the Lepidopterists' Society, in conjunction with the 24th Annual meeting of the Pacific Slope Section, was held at the Harvest House Motor Hotel, Boulder, Colorado, between 21-24 July 1977. The meeting was co-sponsored by the University of Colorado Museum and the Association of Rocky Mountain Lepidopterists.

The combined meeting of the Executive Council and the Editorial Board was held Thursday afternoon, 21 July. The meeting was convened by President S.S. Nicolay at 3:00 p.m., and adjourned at 6:10 p.m., to be reconvened on Friday and Saturday evenings.

Members in attendance participated in an Open House at the Department of Entomology, University of Colorado Museum, on Thursday Afternoon.

The program began on Friday morning, 22 July, as follows: Welcome message from Peter Robinson, Director of the University of Colorado Museum, Boulder. Morning Session: Ray E. Stanford, Chairman of Local Arrangements and Program, presiding; Contributed papers.

"A New/Old Classification of the Lycaenidae." Lee D. Miller, Allyn Museum of Entomology, Sarasota, Florida, and F. Martin Brown, Colorado Springs, Colorado.

"Interactions between Native and Introduced Species of Cabbage Butterflies (Pieridae)." Frances S. Chew, Tufts University, Medford, Massachusetts.

"Effects of Pupal Refrigeration on Adult Coloration in Apantesis (Arctiidae)." James K. Adams, Liberty, Missouri.

"Adult Movement Patterns in Euphydryas (Nymphalidae)." Raymond R. White, Old Dominion University, Norfolk, Virginia.

"Inter-Specific Hybridization among Nearctic Limenitis (Nymphalidae) and its Evolutionary Implications." Austin P. Platt, University of Maryland, Baltimore, Maryland.

"Sperm Utilization in Double Matings of Limenitis arthemis (Nymphalidae)." James F. Allen, University of Maryland, Baltimore, Maryland.

"The Behavioral and Physiological Convergence of Thermoregulatory Strategies in Arctic Butterflies." Matthew M. Douglas, University of Kansas, Lawrence, Kansas (read by June Preston).

Friday afternoon: symposium on "Recent Advances in the Higher Classification of Lepidoptera." Jerry A. Powell, presiding:

"Introduction and Historical Review." Jerry A. Powell, University of California, Berkeley, California.

"The Primitive Suborders: Zeugloptera, Dacnonypha and Monotrysis." Don R. Davis, National Museum of Natural History, Smithsonian Institution, Washington, D.C.

"Recent Advances in Superfamily Concepts among Glyphipterygid, Choreutid and Related Moths." John B. Heppner, University of Florida, Gainesville, Florida and Smithsonian Institution, Wash. D.C.

"Higher Classification of the Gelechioidea." Ronald W. Hodges, U.S. Department of Agriculture, Beltsville Agricultural Research Center, Beltsville, Maryland.

"Recent Contributions of Larval Studies to Superfamily Concepts." Frederick W. Stehr, Michigan State University, East Lansing, Michigan.

Jerry A. Powell concluded the symposium with a discussion and summary.

Friday evening: An informal session and slide fest at the home of J. Donald Eff. Four illustrated programs:

"Some Butterfly Food Plants and Type Localities." J. Willis Tilden, San Jose, California.

"Rediscovery of Schreckensteinia felicella Walsingham." Jerry A. Powell, University of California, Berkeley, California.

"Unusual and New Ghost Moths (Hepialidae) from North America." Norman B. Tindale, Palo Alto, California.

"Colorado Butterflies and Flowers." Oscar O. Otto, Jr., Westminster, Colorado.

Attendees then participated in an open slide fest.

Saturday morning, 23 July, a general session, Clifford D. Ferris presiding:

"Compacted Storage: Modern Technology Solves the Perennial Museum Space Problem." Julian P. Donahue, Natural History Museum of Los Angeles County, Los Angeles, California.

"A Scientific Data Abbreviation System as Applied to Field Notes and Specimen Labels." Clyde F. Gillette, Salt Lake City, Utah.

"Some Thoughts on Lepidoptera Origins." Norman B. Tindale, Palo Alto, California.

"Lepidopterists in America before Columbus." Benjamin H. Landing, Los Angeles, California.

"Some European Natural History Museums: Lepidoptera Collections and Colleagues." John B. Heppner, University of Florida, Gainesville, Florida and Smithsonian Institution, Washington, D.C.

"Notes on Oviposition and Mating in Speyeria (Nymphalidae)." Richard A. Arnold, University of California, Berkeley, California.

"Some Taxonomic Considerations in the Castniidae." Jacqueline Y. Miller, Allyn Museum of Entomology, Sarasota, Florida.

"Differentiating Gold-Banded Skippers (Hesperiidae: Autochton)." John M. Burns, National Museum of Natural History, Smithsonian Institution, Washington, D.C.

"Ecology of High-Altitude Pierini in Colombia." Arthur Shapiro, U. Cal., Davis, California.

Saturday afternoon a symposium on "Biology of Rocky Mountain Lepidoptera", F. Martin Brown presiding:

"Relict Moths in Colorado." Karolis Bagdonas, Adelphi University, Garden City, New York.

"Relict Arctiidae in Colorado." Ira Heller, Adelphi University, Garden City, New York.

"Notes on Pine-Feeding Microlepidoptera in Colorado." Robert E. Stevens, Rocky Mountain Forest Experiment Station, U.S.D.A., Fort Collins, Colorado.

"Butterfly Diversity in New Mexico." Michael E. Toliver, University of Illinois, Urbana, Illinois

"Natural Enemies of the Pine Butterfly, Neophasia menapia (Pieridae) in Montana." Steven J. Kohler, Montana Department of Natural Resources and Conservation, Missoula, Montana.

"The Natural History of Erebia magdalena (Satyridae): Do the Larvae Really Eat Rocks?" Robert M. Pyle, University of Leicester, Leicestershire, England.

"Butterfly Ecology in a Small Habitat: Red Rocks Park, Denver, Colorado." Marc Epstein, Denver, Colorado.

"Quiet Disappearance of Critical Habitats in the Rocky Mountains." Clifford D. Ferris, Laramie, Wyoming.

F. Martin Brown concluded the symposium with a summary and comments.

The Saturday evening program began with the annual banquet, a social hour and steak fry at the Harvest House, followed by the presentation of the Karl Jordan Medal to Dr. Don R. Davis by President S. S. Nicolay. Dr. Davis then presented the Karl Jordan Address, entitled "The Subterranean World of Moths and Other Creepy-Crawlers."

Following this, F. Martin Brown presented a paper on "Early Butterflies and Early Collectors of Lepidoptera," after which Charles V. Covell, Jr., conducted the drawing for door prizes.

Sunday morning, 24 July, a general session; Charles V. Covell, Jr., presiding:

"Biology of the Papilio indra Complex (Papilionidae)." John F. Emmel, Hemet, California.

"Watercourses as Butterfly Corridors." Robert M. Pyle, University of Leicester, Leicestershire, England.

"Endangered Butterflies of the San Bruno Mountains of California." Richard A. Arnold, University of California, Berkeley, California.

"The California Butterfly Farmers: Charles and Ximena McGlashan." Jeannine Oppewall, Santa Monica, California.

"Progress in the Conservation of North American Lepidoptera." Paul A. Opler, Office of Endangered Species, U. S. Fish & Wildlife Service, Washington, D.C.

"The Xerces Society July Fourth Butterfly Count." Mary Hathaway, Durham, New Hampshire.

"Comments and Research on the Thessalia leanira Complex (Nymphalidae) in Western North America." Michael J. Smith, Atwater, California.

"Some Habits of Battus philenor (Papilionidae)." Jo Brewer, Dedham, Massachusetts.

The Sunday morning session was concluded by outgoing Society President Stanley S. Nicolay's Presidential Address: "Thirty Years and Counting."

President Nicolay then called the Annual Business Meeting to Order at 12:25 p.m., with approximately 55 members in attendance. There being no old business, Secretary Donahue made the following announcements: Pellet 5 of Frass has been delayed, and will be mailed to registrants if it is published at all; the 1978 Annual Meeting will be held in Louisville, Kentucky, in late June or early July, and the 1979 Annual Meeting will be held in Fairbanks, Alaska, date to be announced; this year's Nominating Committee consists of J. B. Ziegler, chairman, Richard A. Arnold, and John F. Emmel; the Resolutions Committee is comprised of Jo Brewer, chairman, George Godfrey, Frances Chew, and Tim Cashatt; the Society Library will be moved in the near future from California State University, Northridge, to the Natural History Museum in Los Angeles, where it will become a lending library through the Inter-Library Loan System.

In the absence of Treasurer John Snider, Donahue proceeded to give the highlights of the Treasurer's Report: in calendar year 1976 there was a total income of \$23,727.37 and expenses of \$21,757.96, leaving a net operating surplus of \$1,969.41. As of July 1977 there was \$8,317.37 in the Permanent Publication Fund, \$5,266.30 in the Commemorative Issue Fund, and \$25,689.93 in the General Fund. Donahue also pointed out that back issue sales have been excellent, with income of \$702.60 in calendar 1976, and that savings and certificate accounts yielded interest of \$1,027.70 in 1976. No increase in dues will be necessary in 1978.

Ray Stanford, Program and Local Arrangements Chairman for the meeting, announced that a total of 129 persons had registered at the meeting, making it the best-attended Annual Meeting in Society history. The meeting was conducted in the black--in fact, a small surplus would be transferred to the General Fund of the Society. A show of hands indicated that the Abstracts distributed at the meeting had been read and used. Publication of the abstracts for distribution to all members was discussed but not resolved. Stanford then thanked all who had assisted in planning and conducting the meeting, after which the audience gave Stanford a standing ovation.

Other new business consisted of an announcement that the Commemorative Issue had (finally) been published and was being trucked to Louisville, Kentucky for distribution. Don Eff announced that the U. S. Postal Service had suggested that the Society appoint a member to serve in an advisory capacity for commemorative stamps relating to Lepidoptera.

Jo Brewer, Chairman of the Resolutions Committee, then read the Resolutions, which she had prepared in a novel limerick form.

There being no further business, outgoing President Nicolay presented the Society gavel to incoming President J. W. Tilden, who adjourned the meeting at 12:50 p.m.

Respectfully submitted, Julian P. Donahue, Secretary.

MINUTES OF THE 24th ANNUAL BUSINESS MEETING, PACIFIC SLOPE SECTION

Jerry A. Powell called the meeting to order at 12:53 p.m. on 24 July 1977 in the Harvest House Motor Hotel, Boulder, Colorado, with 17 members present.

It was decided that the 1978 Pacific Slope Branch Meeting would be held at the Natural History Museum in Los Angeles, 26-27 August. Julian P. Donahue will be in charge of Local Arrangements, and Thomas D. Eichlin (chairman) and Donahue will be in charge of the program.

Powell brought up the idea of establishing a fund to support a memorial lecture, honoring a different person each year. A prize would be awarded for the best paper by a student or younger member. Competing papers would be presented prior to the banquet, and the award presented at the banquet. No action taken.

The site for the 1979 meeting was discussed. Fairbanks, in conjunction with the Society's Annual Meeting was suggested. Decision will be delayed until the 1978 meeting in Los Angeles.

The meeting adjourned at 1:11 p.m.

Respectfully submitted, Julian P. Donahue, Acting Secretary.



Front Row (L-R)

Ron Leuschner
 Kurt Leuschner
 John Burns
 Jim Scott
 Felix Sperling
 Candy Clark
 Charles Remington
 Larry Gall
 Francie Chew
 Bob Pyle
 Donna Tidwell
 Ken Tidwell
 David Shaw
 June Preston
 Roy Kendall
 Connie Kendall
 Jack Clarke
 Stan Nicolay
 Ray Stanford
 Tim Cashat
 Charles Sorensen
 Bill Field
 Fred Thorne
 Mary Hathaway
 Emily Dial

Second Row

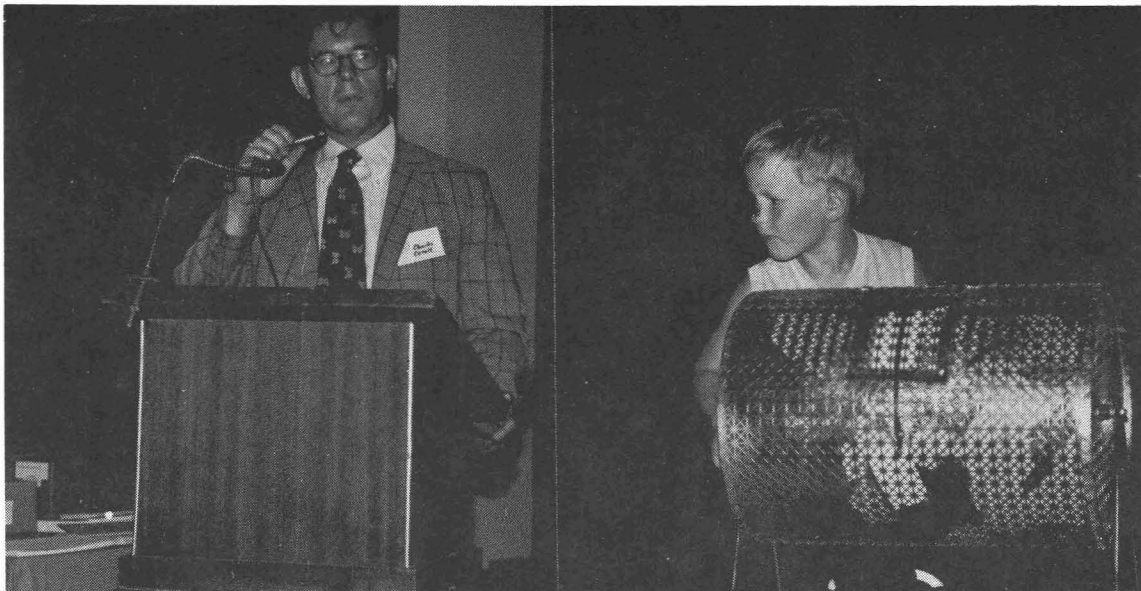
Jeanne Leuschner
 Marilyn Hick
 Bob Price
 Marc Epstein
 Cliff Ferris
 Mike Fisher
 Steve Kohler
 Mike Smith
 Ralph Wells
 Sterling Mattoon
 Les Ferge
 Charles Bridges
 Clyde Gillette
 Richard Arnold
 Wayne Steele
 Mrs. Steele
 Dave Winter
 Jo Brewer
 Douglas Ferguson
 Phyllis Emmel
 John Emmel
 James Allen
 Julian Donahue

Third Row

Charles Covell
 Wayne Wehling
 George Godfrey
 Austin Platt
 Art Shapiro
 David McCorkle
 John Beattie
 Robert Anderson
 Marion Anderson
 Floyd Preston
 Mike Toliver
 Teresa Benton
 Betty Fales
 Mignon Davis
 Don Davis
 Ben Ziegler
 Ira Heller
 Larry Ferrandiz
 Lorrie Lee
 Hazel Tilden
 Bill Tilden
 Bruce Walsh
 Jackie Miller
 Lee Miller
 Teresa Clifford
 Sylvia Bagdonas
 Karl Decker

Top Row

Bruce Griffin
 Paul Opler
 Don Duckworth
 Tom Eichlin
 Lowell Harris
 Don Eff
 Don Phillipson
 Arthur Allyn
 Dorothy Allyn
 David Ferguson
 Joe Minow
 Seth Montfort
 Peter Eades
 John Heppner
 John Fales
 Fred Stehr
 Ron Hodges
 Elaine Hodges
 Art Detmar
 James Adams
 Chris Woosley
 Bruce Oman
 Mike Pogue
 Richard Nuzzi
 Karolis Bagdonas
 William Bagdonas
 John Justice
 Oscar Otto
 Keith Hughes
 Raymond White





Resolutions

PASSED AT THE ANNUAL MEETING OF THE LEPIDOPTERISTS' SOCIETY, 1977
BOULDER, COLORADO

Whereas:

On July 24, sic: today,
Our President, Stan Nicolay,
Will cast off the coils
Of that office's toils
Without any undue dismay;

whereas:

George Godfrey has guided the JOURNAL
Through financial pitfalls eternal,
(Not losing his cool
as a general rule) -
A task often labelled *INFERNAL*;

where as:

Though the problems of Treasurer Snide-
r, Grew massive & mammoth & wide,
He offered to stay
Until almost next May
To act as the new victim's guide;

whereas:

Ray Stanford, without any doubt,
Has just about turned inside out
To give every member
A day to remember,
And shown he has plenty of clout;

Not to mention a lady named Kit
Who also is loaded with "IT",
As a butterfly dressed
She astonished each guest
With the concept - and also the fit;

whereas:

Don Eff lured us into the hills
And gave us an evening of thrills: -
A bus double stacked,
A collection well packed,
And garage full of Kodachrome stills;

whereas:

Url Lanham knew people were hopin'
The Museum doors would be open,
So he stayed in the wings
And took care of things
Which saved people time spent in gropin' ;

whereas:

With very soft-sell invitations,
A number of friends and relations
Have opened their coffers
And made many offers
Of valuable door prize donations;

whereas:

Both Robert and Charlie Covell
Took charge of the raffle so well
And so democratical
The Leps were ecstatical
(Or else disappointed as hell):

Therefore:

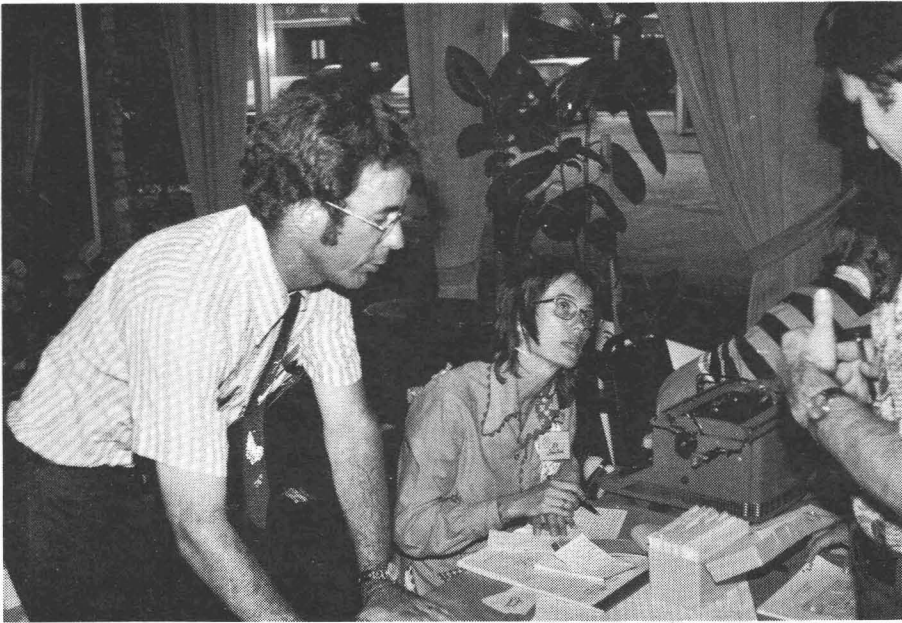
At this time be it therefor resolved
To thank these and all others involved
For their efforts resplendant
Toward all those attendant
And applaud them before we're dissolved.

Hastily conceived and
respectively submitted,

Jo Brewer

Resolutions Chairman

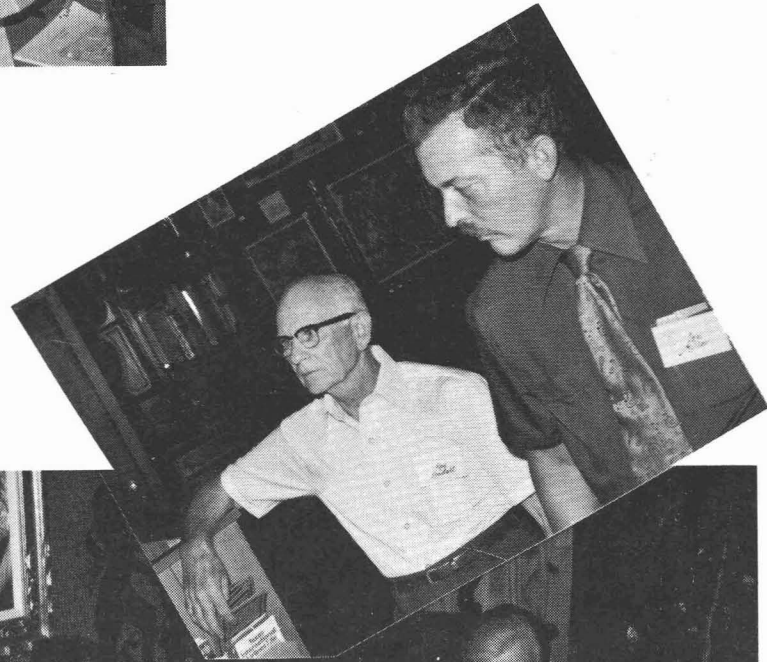
Boulder Album



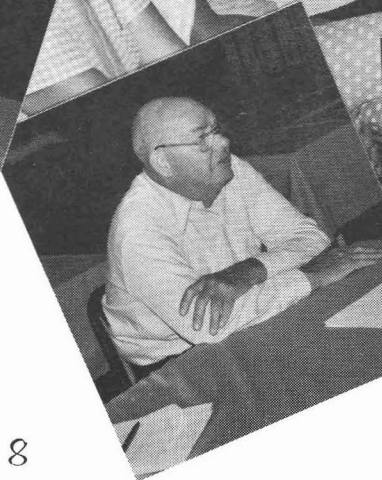
Left: Ray & Kit Stanford power the registration & information desk.

*Some things were taken seriously.
Below: Roy Kendall & Lee Miller*

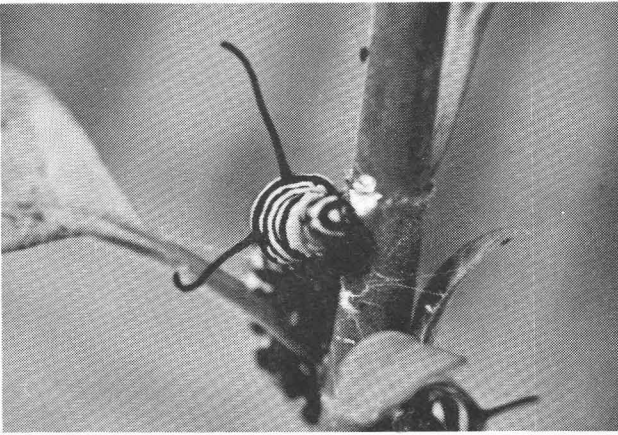
*There was also a lighter vein. Right center:
Hazel Tilden, Jackie Miller & Bill Field.*



*Below: Ron Hodges, Bill Tilden,
Julian Donahue & Charlie Covell
in the Think-Tank.*



THE CAT-LIKE CATERPILLAR



I was delighted to read Jo Brewer's notes on the behavior of Monarch caterpillars. The subspecies from Trinidad which I am rearing here likewise often cuts through the stem of the leaf on which it is feeding so that this hangs down and forms a sunshade. However, my caterpillars want the maximum "gravy" with the main course. They are avid drinkers of latex and the first act they perform after cutting into the stem is to drink the milky liquid as it oozes forth. When we originally noticed this behavior of the "cat-like caterpillars" we suggested that it was a useful way of stocking up with cardenolides, as the latex is exceptionally rich in those substances. The enclosed photograph shows the Monarch caterpillar imbibing latex from a deliberately wounded stem of *Asclepias curassavica*.

Miriam Rothschild, Ashton Wold,
Peterborough, ENGLAND PE85L2

To the Editor:

I should be interested in knowing if any of our members have observations on delayed wing expansion in freshly emerged leps.

On 2 October 1977 a ♀ Nevada buckmoth (*Hemileuca nevadensis*) reared on *Salix* by Ben Williams from ova obtained from Steve McElfresh from Escondido, CA, emerged indoors at 18 degrees c. sometime prior to my first observation at 6:00 pm. At that time the wings were pupal sized, crumpled in a sinuous fashion and were held out horizontally or elevated to 45 degrees as the moth scuttled about the screen walls of the cage or rested quietly. From time to time, when disturbed, she went through the peculiar rocking motions (about the longitudinal axis) typical of *Hemileuca*. Five and a half hours later, at 11:30 pm, when the size and shape and position of the wings were unchanged, the moth was assumed to be a "cage-cripple".

At the next observation at 6:00 am on 3 October, the wings were fully expanded without a wrinkle (span 68mm, somewhat above the ♀ mean for the species), and the insect began calling half an hour later.

A litter-mate ♂, which emerged at 6:15 am was fully expanded at 6:45 am.

W.D. Winter Jr. M.D.

257 Common St., Dedham, MA 02026.

To the Editor:

Scott Treatman's article, The Flood and the Butterfly (NEWS of the Lep's. Soc. no 6 1976) which describes habitat damage resulting from the 31 July flooding in the river canyons of Larimer County, CO, should be of interest to all lepidopterists. I feel that if Mr. Treatman's example can be regarded in a broader bio-geological perspective, it will become clear that it is precisely such catastrophic natural events that generate and maintain habitat diversity. If it were not for flooding rivers, the dynamic riverine environment with its shifting sand bars (mud puddling butterflies!), and rapidly changing vegetational components would, in a short time, greatly diminish. Flooding is an important natural process. If it is not allowed to occur, much of the biological diversity that characterizes riverine environments would soon disappear.

Unfortunately, the U.S. Army Corps of engineers and other federal agencies have extensive vested interests in combatting floods and "taming" of rivers by dams and channelization (as reflected in news items released to the media by them after each flood).

Rather than this, what we need is more study and observation on the role of such natural catastrophies in maintaining diversity of butterfly habitats. It is hoped that fellow lepidopterists will make use of the NEWS to record their ideas and experiences on this important subject.

Lincoln P. Brower, Professor of Biology,
Amherst College, Amherst, MA 01002.

8 * * * * *

The Editor wishes to apologize for the error in spelling of the word 'gynandromorph' in the letter from David Walsten on page 6 of the Sep/Oct issue of the NEWS. The error was that of the editor, not of Mr. Walsten.

We also wish to thank all of the NEWS readers who have been very tolerant over the past year, in not complaining about our many goofs. We now have a reliable (I think) proof reader, and the readability of the NEWS should henceforth be greatly improved.

ed.

Dear Jo,

It was with pleasure and considerable surprise that I received the second issue of the NEWS this year and found the photos of my semi-melanic *P. glaucus* displayed. I was even more surprised to see Dr. Rosier's specimen in issue no.4 with very similar coloration.

As I later discovered, Dr. Austin Platt at U. of Maryland would have delighted in making a genetic study of the specimen's probably multifaceted offspring. Unfortunately, my lack of experience and success with rearing and a hasty "bird-in-hand" philosophy at the time led me to choose the killing jar over the rearing cage. However, I was glad to read in the 4th issue of the NEWS that other Lepidopterists have observed similar aberrations in the wild, so that a genetic study is probably still possible for some lucky collector in spite of my regretted superficiality.

Close examination of the abdomen of my *P. glaucus* reveals no difference apparent to me, comparison with a normal ♀. Thus, I would say that the specimen is not a gynandromorph. So, if the "semi-melanic gynandromorphic *P. glaucus*" exists, I wish fellow collectors the best of luck.

Richard H. Smith Jr., 1512 Park Glen Ct,
Reston, VA 22090.

NOTICES - Buy, Sell, Exchange

Members of the Lepidopterists' Society are invited to use this section free of charge to advertise their offerings in Lepidoptera. We cannot guarantee any notices, but all are expected to be made in good faith. By decision of the Board, prices of specimens offered for sale will not be published henceforth. Please be brief, clear, and check spelling. Notices will be limited to two appearances. The Editor reserves the right to alter or reject unsuitable copy.

FOR SALE: Collection of approximately six hundred butterflies and some moths from Uganda and Kenya. Strong on Nymphalidae, especially Charaxes. They are fresh (not dusty or exposed to light) and in good condition (IA and IB). Fair amount of duplication (perhaps 250 uniques). All are mounted.

Also collection of approximately two hundred and fifty butterflies from Kenya, Uganda, Pakistan, Nepal, India, Malaysia and Thailand. They are fresh and in good condition. All are papered specimens. Write for prices. Peter S. Heller, 3619 Fordham Rd., N.W., Washington DC 20016. (Tel. 202-362-0804).

FOR SALE: One copy of Emperor Moths of South and South-Central Africa, Eliot Pinhey, in excellent condition. \$12.95 post paid Donald J. Dill, 1773 W. Granville Ave, Chicago, IL 60660.

WANTED: Information relating to Tritanassa texana texana and its southeastern subspecies, T. t. seminole, especially records from Louisiana, Alabama, Florida, Georgia, or South Carolina. The exact status of T. t. seminole is not well known. According to present available information only 7 colonies are known in Georgia & Florida, of which two may already be receiving developmental pressure. Please send dates of capture, locality descriptions, flowers visited, numbers captured, etc. Dave Baggett, 1246 Holmesdale Rd., Jacksonville, FL 32207.

WANTED: Clearwing, wasp-like moths (Sesiidae). World-wide interest; specimens need not be named but other data wanted. Many so-called "common" species needed in my collection. John Holoyda, 2819 N. Marmora Ave., Chicago, IL 60634.

WANTED: Information on anyone who is rearing the Cabbage Butterfly (Pieris rapae), especially material which has been reared on an artificial media. Richard L. Best, 1232 Kenwood Drive, Burlington, NC 27215.

WANTED: Proceedings of the New England Zoological Society, Vols. 2&4; Proceedings of the Boston Society of Natural History, Vol.34, No.13, Vol.36, nos 1,2, title page & index, Vol.39 title page & index; Cyril F. dos Passos, Washington Corners, Mendham, NJ 07945.

EXCHANGE: Many Parnassius, Colias, Erebia, etc. from Tien-Shan, Pamirs, Altay, Caucasus, including many rare species (such as Parnassius patricius, Colia marcopolo, etc.) Want to have tropical Papilionidae, (especially Ornithoptera) Morpho and Saturnidae. Dr. D.S. Lastochkin Poste Restante, Kiev-42, USSR (CCCP).

EXCHANGE: Speyeria idalia from Missouri for Speyeria diana. Thomas J. Riley, Dept. of Entomology, 1-87 Agriculture Bldg., Univ. of Missouri, Columbia, MO 65201.

FOR SALE: Large quantity of high quality colorful, rare, and common butterflies, beetles and other insects from Malaysia. Papered and dried, specially prepared for Decorative and Collection work. Free catalogue. Mr. H.F. Wong, M/S Deco Enterprise, 100 A, 1st Floor, Simpang Rd., P.O. Box 155, Taiping, Perak, MALAYSIA.

FOR SALE: Viable cocoons of H. cecropia, A. polyphemus, A. luna. Please write for prices. Bonnie Ravy, 1013 N. Lark, Oshkosh, WI, 54901.

WANTED: (a) Hampson, G.F. A Catalogue of Lepidoptera Phalaenae in the B.M., plates only for vol. 2,3,4 and 6;

(b) Bulletin of the Buffalo Society of Natural Science, the first four volumes;

(c) Stretch, R.H., Illustrations of the Zygaenidae & Bombycidae of N.A., vol. 1;

(d) Eliot & Soule, Caterpillars and their moths;

(e) Proceedings of the U.S.N.M., vol. 12 & 13 (1889-1890);

(f) Bulletin of the U.S. Geological & Geographical survey of the Territory, vol. 7 (1878)

Answer all offers. Will pay best prices cash. Louis Handfield, 133, Messier, Mont St. Hilaire, P.Q. Canada J3H 2W8.

FOR SALE: Rare Ornithoptera from West Irian including tithonus, goliath, paradisea and rothschildi, also Delias, Papilio and material from New Guinea. All inquires to G. Watson, P.O. box 1567, Wollongong, 2500, Australia.

WANTED: Urania (=Alcides) zodiaca and U. aurora; Kallima jacksoni, Morpho tenaris, schoenbergi, Ornithoptera paradisea, Teinopalpus imperialis, Papilio gundlachianus and P. ascanius. Will buy or exchange. Bruce E. Ellis, 3176 West 50th St, Cleveland, Ohio 44102 USA.

WANTED: AMERICAN MUSEUM NOVITATES and PROCEEDINGS of the U.S. NATIONAL MUSEUM on Lepidoptera. Please send list of offerata and prices. R. A. Rahn, 411 W. Stewart Av. Wausau, WI 54401.

EXCHANGE: Pair of S. coerulescens ex pupa for suitable offer. John M. Snider, 3520 Mulldae Ave, San Pedro CA 90732.

EXCHANGE/Buy: Will trade butterflies from Quebec CAN., Peru, Brazil, Nationalist China, Spain for what you can offer. I will buy also, Ornithoptera, Troides & Morpho. Please send list. Brian Donnelly, e.s. Vanier, 100 Blvd Hamel, Vanier, P. Quebec, CANADA.

- FOR SALE: I still have a few books for sale including Morris: Butterflies; Godman & Salvin: Moths of America; J Lep Soc (complete). Make offer. Robert Stewart, 9595 Genessee Ave. C-1, San Diego, CA 92121; (714) 452-2140.
- WANTED: One pair of Ornithoptera victoriana isabellae-Santa Isabel Isl. Male should have an extreme coppery-gold band on the hindwing recto. Not to be confused with O. epiphanes or O. reginae. Gary Walter Simon, 118 Sunnybrook Rd., Cherry Hill, NJ 08034.
- FOR SALE: 3000 Manitoba moths and butterflies, including good numbers of Speyeria cybele pseudo carpenteri, S. atlantis hollandi, S. aphrodite manitoba, Oeneis daura alberta, Boloria chariclea grandis, Lethe portlandia, L. p. borealis, Catocala manitoba, C. coccinata, C. parta, C. osculata. Price list on request. Also a complete set of the Lepidopterist Journal from Vol. I No. 1 to the latest copy. What offers? C.S. Quelch, 21 Park Circle, Winnipeg, Manitoba, CANADA R2CoL6.
- WANTED: Small quantities of viable chrysalids of North American & Mexican Papilios and any ornithoptera. Please indicate prices and dates of availability. Also, a new or used copy of Rothschild & Jordan's A Revision of American Papilios. (1906) or the reprinted edition of 1967 (Novit. Zool) Rick Rozycki, 5107 So. Long Ave., Chicago, IL 60638.
- BUY or EXCHANGE: I collect, trade buy exotic arthropods. Will trade Pacific N. West Papilio, Speyeria, Boloria, Parnassius, Limnitis, Nymphalis, Phyciodes, Euphydryas, Colias, Pieris, species for tropical Ornithoptera, Papilio, Morpho, Agrias, Heliconius, Caligo, Saturnid species. I welcome correspondence in this area. Also desire giant scarab beetles, (Megasoma, Dynastes, Goliathus, Chalusoma), giant spiders, unusual Phasmids, Leaf Mimics, etc. in exchange. Richard Horace Whitten, Head, Dept of Invertebrate Biology, Powell Labs. Div. of Carolina Biological Supply Co., Gladstone, OR 97027.
- FOR SALE: "Report on the Lepidoptera...of the Panama Canal Zone" by H.G. Dyar (1914); Ent. News, Vols 46-70 ('35-'59); Bull. Brooklyn Ent. Soc., Vols. 31-60 ('36-'65). Best offer. M. C. Nielsen, 3415 Overlea Dr., Lansing, MI 48917. (517-321-2192).
- FOR SALE: Copies of "The Michigan Ent.", Vol. 1 no. 1 (1966), featuring "The Invention of Sugaring" for Moths in 19th Century England by R. S. Wilkinson. @ \$1.00 post paid. Michigan Entomological Society, c/o Dept of Entomology, Michigan State University, East Lansing, MI 48824.
- Buy/EXCHANGE: Common mixed North American Noctuidae, espially Agrotinae, Hadeninae and Cucullinae, in lots of 100-1000 specimens. All specimens must be in A-1 condition and have full data. Ken Neil, Dept. of Biology, Dalhousie Univ., Halifax, Nova Scotia, CANADA.
- WANTED TO BUY: Catagramma from Mexico and other Central American countries, especially C. casta and C. patelina. Also wanted: Megasoma elephas from Mexico and large Bird spiders. Henry Hensel, 145 Bellevue St. Edmundston, NB CANADA.

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NEW MEMBERS

- Peter H. Adler, 208 Life Scs 1, Dept of Biology, Penn. State Univ, University Park, PA 16802
 Andrew F. Beck, Dutch Village #S-5, Blacksburg, VA 24061,
 Ben M. Gregory Jr., 3413 W. Park Square, Apt. 1, Tampa, FL 33612
 Robert Muller, 8 Ridge View Ave, New Providence, NJ 07974
 Daisaburo Okumoto, 5-46-6 Sendagi Bunkyo-Ku, Tokyo, Japan 113
 Melissa Savage, 1404 Cerro Gordo Rd, Santa Fe, NM 87501
 Mrs. JoAnn D, Vogt, 39 Church St, Burgettstown, PA 15021.

CHANGES OF ADDRESS

- Robert A. Belmont, Dept of Entom. & Nemato. 3103 McCarty Hall, U. of Florida, Gainesville, FL 32601.
 Bernard L. D'Abrera, Dept of Entom, British Mus (Nat. Hist), S. Kensington, London SW7 5BD ENGLAND
 Robert C. Godefroi, 14104 N.E. 77th St, Redmond, WA 98052.
 John W. Kemmer, 6814 Skillman, #226, Dallas, TX 75231.
 Stephen R. Steinhauser, 2335 County Line Rd, Sarasota, FL 33508
 Dr. Paul M. Tuskes, Rte 1, Box 34 Tavernier, FL 33070

***** IMPORTANT NOTICE *****

Its not too soon to start planning ahead for the next two annual meetings. In 1978 the meeting will be held in Louisville, Kentucky, Charles V. Covell Jr, and the University of Kentucky, hosts. In 1979 the meeting will be held in Fairbanks, Alaska, Kenelm Philip and the University of Alaska, hosts. North is north and south is south, but ever the Lep's shall meet. More details in the next issue.

Deadline for items for the Jan/Feb NEWS:

DECEMBER 7 !

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AVAILABLE PUBLICATIONS OF THE SOCIETY

MEMOIRS of the Lepidopterists' Society, No.1, 1964: A Synonymic List of the Nearctic Rhopalocera. C.F. dos Passos (with 3 supplementary articles). Unbound copies ONLY. \$5 (member); \$7.50 (non-members), sent postpaid.

JOURNAL of the Lepidopterists' Society (and its forerunner, LEPIDOPTERISTS' NEWS), from Vol. 1 '947) to date, \$13 per volume, postpaid. Individual numbers available at prices depending on how many were published in each volume (varies from 4-8). NOT available are: Vol.7, no.3/4 (combined in one issue), Vol.9, no.3/4, Vol.12, no.1/2, and Vol.21, no.1.

NEWS of the Lepidopterists' Society. Some recent issues are still available at \$.25 per copy, postpaid. Inquire as to availability before sending money.

ORDER FROM: Dr. Charles V. Covell Jr., Memoirs Editor, Dept. of Biology, University of Louisville, Louisville, KY 40208 U.S.A.

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, (\$13, U.S.A.) together with full address and areas of interest in Lepidoptera. Remittances in dollars (U.S.A.) should be made payable to the Lepidopterists' Society. All members will receive the JOURNAL published quarterly, and the NEWS in even-numbered years. Back issues of the JOURNAL may be purchased from the TREASURER.

Information on membership may be obtained from the TREASURER, Dr. John M. Snider, 3520 Mulldae Ave., San Pedro, CALIF. 90732, U.S.A. Change of address must be sent to him alone, and only when changes are permanent or very long terms.

Other information about the Society may be obtained from the SECRETARY, Julian P. Donahue, Dept. of Entomology, Los Angeles Co. Mus. of Nat. Hist., 900 Exposition Blvd., Los Angeles, CA 90007. U.S.A.

Manuscripts for publication in the JOURNAL are to be sent to the Editor, Dr. George L. Godfrey, Illinois Natural History Survey, Natural Resources Bldg., Urbana, IL 61801, U.S.A. See inside back cover of a copy of the JOURNAL for editorial policies.