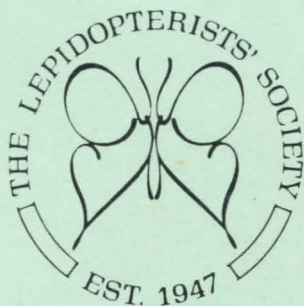


36th ANNUAL MEETING



THE LEPIDOPTERISTS' SOCIETY

18-21 July 1985

University of Illinois
Urbana-Champaign, Illinois

Sponsored By
Illinois Natural History Survey (Champaign)
Dr. Paul G. Risser, Chief
and

Illinois State Museum (Springfield)
Dr. R. Bruce McMillan, Director

Divisions of the Illinois Department
of Energy and Natural Resources
Dr. Don Etchison, Director

In Cooperation With
Department of Entomology
Dr. Stanley Friedman, Head
University of Illinois-UC, Urbana

PROGRAM & ORGANIZATIONAL COMMITTEE

E. D. Cashatt (Co-chairperson), G. L. Godfrey (Co-chairperson), W. H. Allen, J. E. Appleby, D. F. Hess, M. R. Berenbaum, E. G. MacLeod, J. G. Sternburg, and M. E. Tolliver.

ACKNOWLEDGMENTS

The Program Committee thanks all who helped with this meeting. Robert Korb, Lloyd LeMere, Richard Rosentreter, and John Sherrod provided assistance with various aspects of graphics. Special thanks go to Linda Cashatt for her generous hospitality in connection with the Springfield tour. Our colleagues and students graciously helped in many ways, and the members of the Illinois Field Entomologists Club rendered aid when and where it was needed. The cooperation of the University of Illinois' Office of Conference Services, Office of Space Utilization, and staff of the Krannert Center for the Performing Arts is greatly appreciated.

We thank the members of the Murray O. Glenn family for their warm reception and permission to collect on the Glenn farm, and appreciate the cooperation of the Illinois Department of Conservation and the U.S. Forest Service for permitting the Society to collect on sites that they respectively regulate.

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Cover: Lacinipolia implicata green.

PROGRAM
Thursday – 18 July 1985

- Noon** **Registration:** Townsend/Wardall Halls
—
(Illinois Street Residence Halls).
- 5:00 pm** (After registering, enjoy a 15-minute walk
from the Illinois Street Residence Halls to
the Illinois Natural History Survey. If you
need to drive, limited metered parking is
available near the Survey.)
- 1:00 pm** **Open House:** Illinois Natural History Sur-
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vey, Natural Resources Building (6th Street
5:00 pm and Peabody Drive).
Insect Collection - Room 296
Fish Collection - Room 87
Geographic Information System - Room 272
Herbarium - Room 396
IFWIS Demonstration - Room 296
Library - Room 96
- 1:30 pm** **Executive Council Meeting:** Illinois Natural
History Survey, 187 Natural Resources
Building (6th Street and Peabody Drive).
- 5:00 pm** **Dinner Hour:** Open.
- 7:00 pm** **"Evening Puddling":** 2nd Floor Levis Fac-
—
ulty Center, 919 West Illinois Street
10:00 pm (immediately south of Illinois Street Resi-
dence Halls) (parking available). Cash Bar.

Friday - 19 July 1985

8:00 am **Registration:** Townsend/Wardall Halls (Illinois Street Residence Halls).

SESSION I - 228 Natural History Building

(2.5 blocks west of Townsend/Wardall Halls, next to Illini Union)

John C. Downey, Chairperson
University of Northern Iowa, Cedar Falls,
Iowa

8:15 am **Announcements:** E. D. Cashatt, Co-host, Illinois State Museum, Springfield, Illinois.

8:30 am **Welcome to Illinois, "Land of Lincoln."**

Samuel Kaplan, Director, School of Life Sciences, University of Illinois-UC, Urbana, Illinois.

R. Bruce McMillan, Director, Illinois State Museum, Springfield, Illinois.

Paul G. Risser, Chief, Illinois Natural History Survey, Champaign, Illinois.

8:45 am **Presidential Address:** In Search of Missing Links. Donald R. Davis, U.S. National Museum of Natural History, Washington DC.

9:15 am **Geologic-Biotic History of West Central Illinois Prairies.** David F. Hess, Western Illinois University, Macomb, Illinois.

9:30 am **Collecting *Asterope* (= *Callithea*) and *Agrias* in the Tropical Forest Canopy.** Dale W. Jenkins, Sarasota, Florida.

9:45 am **A Synchronized Mass-Emergence of a Yucca Moth, *Prodoxus y-inversus*, After 16 Years in Diapause.** Jerry A. Powell, University of California, Berkeley, California.

10:05 am **Coffee Break.**

SESSION II - 228 Natural History Building

E. D. Cashatt, Chairperson
Illinois State Museum, Springfield, Illinois

- 10:20 am **Recent Interspecific Hybridization Studies Involving Maryland Strains of *Limenitis*.** Austin P. Platt, University of Maryland-BC, Catonsville, Maryland.
- 10:40 am **Mechanisms of Insect Response to Host Plant Dispersion.** William Capman, University of Illinois-UC, Urbana, Illinois.
- 10:55 am **Evidence that *Pieris rapae* is a Better Name Than *Artogeia rapae*.** Robert K. Robbins & Pamela M. Henson, U.S. National Museum of Natural History, Washington, DC.
- 11:15 am **Additional Data on *Boloria napaea halli*.** June & Floyd Preston, Lawrence, Kansas.
- 11:30 am **The Effects of Temperature and Group Size on Larval Development in the Buck Moth, *Hemileuca lucina* (Saturniidae).** M. Deane Bowers, Harvard University, Cambridge, Massachusetts & Nancy E. Stamp, State University of New York, Binghamton, New York.
- 11:50 am **Lunch: Open.**

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MINI SESSION A

Michael E. Toliver, Chairperson
Eureka College, Eureka, Illinois

- 1:15 pm **False Head Patterns of Tailed Nymphalid Butterflies.** Benjamin H. Landing, Los Angeles, California.
- 1:30 pm **Comparative Studies of Butterfly Fauna on Sand, Loess Hill, Acid Upland, and Limestone-Till Prairies in West Central Illinois.**
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- 1:45 pm **David F. Hess, Yale Sedman, Patrick J. Conway, George Balogh, and Irwin Leeuw, Western Illinois University, Macomb, Illinois.**

2:00 pm **Group Photograph:** Go to Greek Amphitheater, west side of Krannert Center for the Performing Arts.

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SESSION III - 228 Natural History Building

**SYMPOSIUM: A Tribute to Edna Mosher
and Stanley B. Fracker —
Lepidopterous Larvae and Pupae**

Frederick W. Stehr, Chairperson
Michigan State University, East Lansing, Michigan

2:30 pm **Notes on the Contributions of Edna Mosher and Stanley B. Fracker.** Frederick W. Stehr.

2:35 pm **Phylogeny and Ontogeny in Lepidoptera: Caterpillars as Indicators of Relationships in Noctuoidea.** John E. Rawlins, Carnegie Museum of Natural History, Pittsburg, Pennsylvania.

3:05 pm **Biotic Hay Balers: Noctuids and Notodontids — A Contrast in Larval Feeding Structures.** George L. Godfrey, Illinois Natural History Survey, Champaign, Illinois.

3:25 pm **Larval Hypermetamorphosis in Gracilariidae and Its Phylogenetic Implications.** Donald R. Davis, U.S. National Museum of Natural History, Washington, DC.

3:55 pm **Passive and Active Antipredator Defenses of Caterpillars.** Robert C. Lederhouse, Rutgers University, Newark, New Jersey.

4:25 pm **A Woollybear Family Tree — Why They Do the Things They Do!** Nancy L. Jacobson, University of Texas, Austin, Texas.

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6:30 pm **PICNIC — (Tickets required) Illini Grove - NW Corner of Pennsylvania Ave. & Lincoln Ave. 15-minute walk from Illinois Street Residence Halls (Parking available for those needing to drive)**

SHOW'N TELL

228 Natural History Building

James G. Sternburg, Chairperson
University of Illinois-UC

- 9:00 pm **Mountains of Mist – Part 2.** Richard L. Brown, Mississippi State University, Mississippi State, Mississippi.
- 9:20 pm **Open Carousel.**
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- 10:30 pm

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Saturday - 20 July 1985

SESSION IV - 228 Natural History Building

Jerry A. Powell, Chairperson
University of California, Berkeley, California

- 8:30 am **Status of Revision of 12 Genera of Neotropical Nymphalids.** Dale W. Jenkins, Sarasota, Florida.
- 8:45 am **A Phylogenetic Analysis of the Genus *Oneida* Hulst (Lepidoptera: Pyralidae) With Comments on Wing Scale Color Coding.** Maria Alma Solis, University of Maryland, College Park, Maryland.
- 9:05 am **The Biology of Hackberry Butterflies.** Tim Friedlander, Texas A&M University, College Station, Texas.
- 9:25 am **Description of the Life Stages of a New Nearctic *Glyphidocera* (Lepidoptera: Blastobasidae).** David Adamski & Richard L. Brown, Mississippi State University, Mississippi State, Mississippi.
- 9:40 am **Species in Confusion: *Wallegrenia otho* and *W. egermet* (Hesperiidae).** John M. Burns, U.S. National Museum of Natural History, Washington, DC.
- 10:00 am **Break.**

SESSION V - 228 Natural History Building

Jacqueline Miller, Chairperson
Allyn Museum of Entomology/Florida State Museum
Sarasota, Florida

- 10:20 am **Studies of the Comparative Protection of Male and Female Black Swallowtails (*Papilio polyxenes* Fabricius) as Batesian Mimics.** Sylvio G. Codella & Robert C. Lederhouse, Rutgers University, Newark, New Jersey.
- 10:40 am **A Batesian Polymorphic Swallowtail Without Sexual Dimorphism.** David A. West, Virginia Polytechnic Institute & State University, Blacksburg, Virginia.
- 11:00 am **Morphological Diversity and Classification of Larval and Pupal Pyralidae.** Steven Passoa, University of Illinois-UC, Urbana, Illinois.
- 11:20 am **Characters and Classification of the Gelechioidea.** Ronald W. Hodges, Systematic Entomology Laboratory, USDA, Washington, DC.
- 11:40 am **Using University of Illinois Computers to Print and Maintain a Catalogue of the North American Butterflies.** Charles A. Bridges, University of Illinois-UC, Urbana, Illinois.
- 12:00 **Lunch: Open.**

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SESSION VI - 228 Natural History Building

**SYMPOSIUM: Lepidoptera Gene Flow, Hybridization,
and Species Distribution**

May R. Berenbaum, Chairperson
University of Illinois-UC, Urbana, Illinois

- 1:30 pm **Opening remarks:** May R. Berenbaum.
- 1:35 pm **Hybrid Zones in *Papilio glaucus*.** J. Mark Scriber, University of Wisconsin, Madison, Wisconsin.
- 1:55 pm **Selective Forces and Phenotypic Divergence Among Admiral Butterflies.** Austin P. Platt, University of Maryland-BC, Catonsville, Maryland.
- 2:25 pm **The Hybrid Theory Associated With *Colias boothi* and *C. thula*.** Clifford D. Ferris, University of Wyoming, Laramie, Wyoming.
- 2:45 pm **The Tiger Moths of Gondwanaland (Arctiidae, Arctiini).** Douglas C. Ferguson, Systematic Entomology Laboratory, USDA, Washington, DC.
- 3:05 pm **Maintaining Species Integrity Between Sympatric Populations of *Hyalophora cecropia* and *H. columbia* (Saturniidae).** James P. Tuttle, Troy, Michigan.
- 3:25 pm **Break.**

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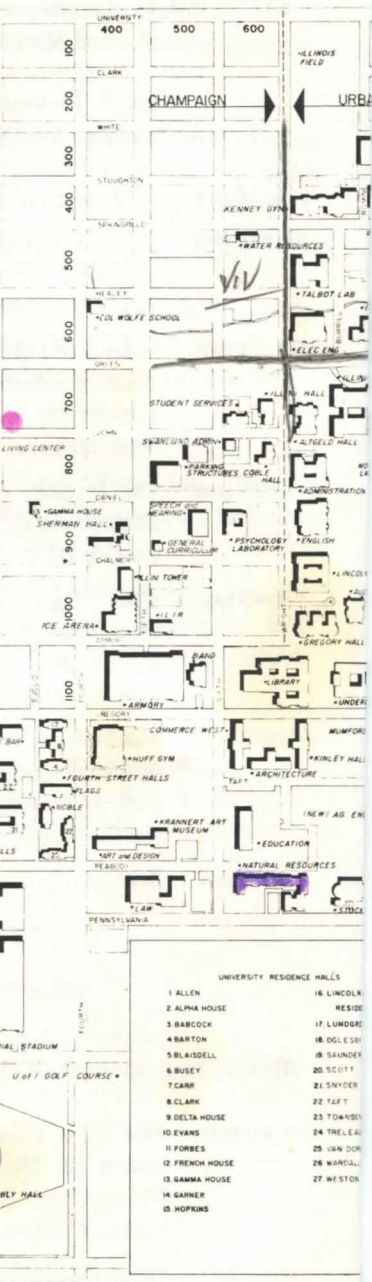
MINI SESSION B

George L. Godfrey, Chairperson
Illinois Natural History Survey, Champaign, Illinois

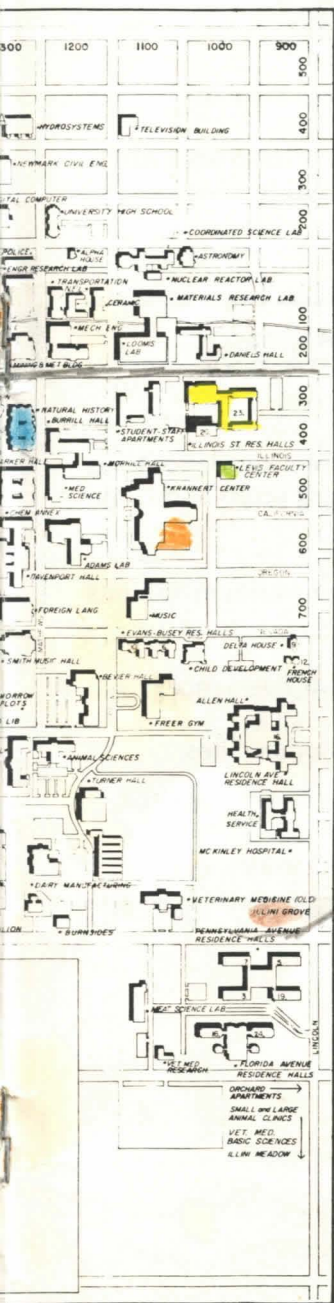
- 3:40 pm **The Late Winter Olethreutines With Emphasis on Their Pupae.** Richard L. Brown, Mississippi State University, Mississippi State, Mississippi.
- 3:55 pm **Field Guide to the Moths Story: The Pains and Pleasures.** Charles V. Covell, Jr. University of Louisville, Louisville, Kentucky.










UNIVERSITY OF ILLINOIS
URBANA - CHAMPAIGN CAMPUS



- UNIVERSITY RESIDENCE HALLS
- | | |
|-----------------|-------------------|
| 1 ALLEN | 16 LINCOLN RESIDE |
| 2 ALPHA HOUSE | 17 LUNDGREN |
| 3 BABCOCK | 18 OGLESBY |
| 4 BARTON | 19 SAUNDER |
| 5 BLAISDELL | 20 SCOTT |
| 6 BUSEY | 21 SNYDER |
| 7 CARR | 22 TAYLOR |
| 8 CLARK | 23 TOWNSHIP |
| 9 DELTA HOUSE | 24 TRELAWAY |
| 10 EVANS | 25 VAN DYKE |
| 11 FORBES | 26 WARDLAW |
| 12 FRENCH HOUSE | 27 WESTON |
| 13 GAMMA HOUSE | |
| 14 GARNER | |
| 15 HOPKINS | |



COLOR CODE

-  ILLINOIS ST RESIDENCE HALLS (Registration & Dorms)
-  NATURAL HISTORY BLDG (Main Meeting Site)
-  LEVIS FACULTY CTR (Thrs. Mixer)
-  KRANNERT CTR. (Sat. Banquet)
-  NATURAL RESOURCES BLDG (Natural History Survey Thrs. Open House & Exec. Council Meeting)
-  ILLINI GROVE (Fri. Picnic)
-  MOTEL AREAS

**ILLINOIS STATE MUSEUM &
LINCOLN HISTORICAL SITES TOUR**

Saturday - 20 July 1985

8:00 am Depart from Illinois Street Residence Halls for Springfield, Illinois (2 hours and 15 minutes travel time).

- Tour of Illinois State Museum Exhibits and Facilities.
- Lunch at E. D. Cashatt Residence.
- Visit the Lincoln Historical Sites.

3:00 pm Depart for Urbana.

BANQUET
(Tickets Required)
Saturday – 20 July 1985

Krannert Center for the Performing Arts
Southeast Patio
(In case of rain, the meal will be served on stage
of the Foellinger Great Hall)

6:00 pm – Cash Bar

7:00 pm – Banquet

8:00 pm – Migrate to 228 Natural History Building

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THE KARL JORDAN PROGRAM
(Open Attendance)

Donald R. Davis
President of The Lepidopterists' Society

- 8:15 pm **Arthur C. Allyn — A Remembrance.** Lee D. Miller, Allyn Museum of Entomology/ Florida State Collection, Sarasota, Florida.
- 8:25 pm **Presentation of the Karl Jordan Medal to Lt. Col. J. N. Eliot, Somerset, England, by President Davis.**
- 8:35 pm **The Karl Jordan Address by Lt. Col. J. N. Eliot**

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DOOR PRIZES
(Keep your banquet ticket stubs)

Charles V. Covell, Jr.
Venerable Master of Ceremonies

Sunday - 21 July 1985

SESSION VII - 228 Natural History Building

Charles V. Covell, Jr., University of Louisville,
Louisville, Kentucky, Chairperson

- 9:00 am **Distribution and Habitat of the Rocky Mountain Butterfly, *Euphydryas gillettii*.** Ernest H. Williams, Hamilton College, Clinton, New York.
- 9:20 am **Anthocharinae: New Species and Range Extensions in Old and New Mexico.** Richard Holland, Albuquerque, New Mexico.
- 9:35 am **Preliminary Notes on the Life History of *Coenonympha hadeni*.** Michael E. Toliver, Eureka College, Eureka, Illinois.
- 9:50 am **Life History and Laboratory Culture of the Parsnip Webworm, *Depressaria pastinacella* (DuRoi) (Oecophoridae).** James K. Nitao, University of Illinois-UC, Urbana, Illinois.
- 10:05 am **Break.**
- 10:20 am **Annual Business Meeting and Installation of New President.**
- 11:20am **Adjournment.**

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Brunch at Wardell Hall Cafeteria
11:00 am - 1:00 pm

Organization of Field Trips to Follow Adjournment
1:30 pm - Depart for Field Trips

Murray O. Glenn Farm and Environs
Sandridge State Forest
Shawnee Hills

HOUSING

University Dorms. Comfortable, air-conditioned dorm rooms may be reserved in Townsend/Wardell Halls (Illinois Street Residence Halls) on the eastern edge of the University of Illinois Campus, just a short walk east of the main meeting site (Natural History Building). Rates (tax included): single - \$16.70/night; shared - \$11.15/person/night; family - \$27.85/night (3-4 beds/room; extra cots at nominal charge). Prices also include pre-made bed (make your own on subsequent days), soap, drinking glass, towel and washcloth (changed daily). Check in time no earlier than 2:00 pm. Check out time is 12:00 noon.

Motels. Numerous motels are situated in Champaign-Urbana, but most are approximately 1-2 miles from the main meeting site next to the Illini Union (guest rooms at the Union are already booked). Therefore, you may want to plan on driving to campus if you stay in a motel. Closest possibilities include:

- Chancellor Hotel, 1501 S. Neil, C. (1-800-257-6667)
- Chief Illini Motel, 520 N. Cunningham, U. (217-367-8377)
- Howard Johnson's, Rte. 45 N., U. (217-367-8331)
- Jumers Castle Lodge, Lincoln Sq., U. (217-384-8800)
- Lincoln Lodge Motel, 403 W. University, U. (217-367-1111)
- Manor Motel, 1102 N. Cunningham, U. (217-367-5427)
- Motel 6, 1906 N. Cunningham, U. (217-344-8660)
- Regency Inn, 2408 N. Cunningham, U. (217-344-8000)
- Travel Lodge, 409 W. University, U. (217-328-3521)
- University Inn, 3rd. & John, C. (217-384-2100)

CAMPING

The closest camping facilities are D & W Lake Camping & Fishing, 4 mi. N Champaign, I-57 & Leverett Exit 240. Address: RR 4, Champaign, IL 61820. Phone: 217-356-3732.

Tincup Campers Park, Inc., ca. 10 mi. NW Champaign, off I-74. Address: RR 3, Mahomet, IL. Phone: 217-586-3011.

Others are 23-30 miles distant

Lodge Park, 23 mi. SWW Champaign off I-72. Primitive. Contact: Tom Streigle, Piatt County Forest Preserve, RR 1 Box 138, Monticello, IL 61856.

Sangamon Park Resort (commercial), 5 mi. W, 2.5 mi. S Monticello (25 + mi. SWW Champaign). Address: RR 2 Box 146, Monticello, IL 61856. Phone: 217-669-2322.

Middlefork Forest Preserve, 5 mi. N Penfield, IL (30 mi. NE Urbana). Nice facilities. Phone: 217-595-5432.

MEALS

All meeting guests may take advantage of a special rate for dining at the Illinois Street Residence Halls Cafeteria: Friday (breakfast and lunch) + Saturday (breakfast and lunch) + Sunday (brunch) = \$19.41 (tax included). Individual meals also available on first come first served basis. All meals include two entrees, a large variety of beverages and seconds on all items. Complete soup and salad also are provided for lunch.

Thursday night you are on your own. Costs of Friday picnic and Saturday banquet will be extra. A variety of other dining options are available in "College Town" which is in easy walking distance of the meeting room and dorm complex, at the Illini Union, and at the many fine restaurants in Champaign-Urbana.

SPOUSES/FAMILIES

Friday. Visit the many interesting spots on the University of Illinois Campus, including the acclaimed facilities of the Krannert Center for the Performing Arts (take in a musical Friday night), stroll through the World Heritage Museum and the Krannert Art Museum, and swim, relax or work out in the recreational facilities of IMPE (daily recreational passes available at \$2/day for dorm guests). You may get complete information on campus activities and points of interest in the front lobby of the Illini Union.

Saturday. A special day has been planned that will allow you to visit and tour the Illinois State Museum and the Abraham Lincoln Historical sites in Springfield. You will be accompanied by an experienced guide. Indicate on the registration form if you plan to take this tour.

- Baby sitting services will be available.

PARKING

Limited parking is available for guests staying at the Illinois Street Residence Halls. Other conference guests may use metered street parking during the days. There is ample free parking after 5:00 pm.

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REGISTRATION & RESERVATIONS

The deadline for reserving campus dormitory accommodations is June 21. Please use the enclosed pre-registration and reservation form.

For additional information call 217-333-6846.

— NOTES —