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# KENTUCKY LEPIDOPTERIST

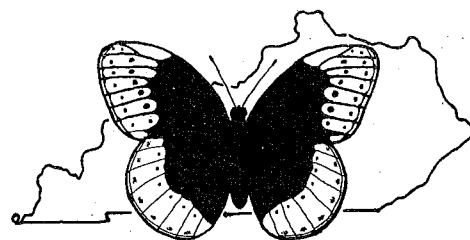
Newsletter of the Society of Kentucky Lepidopterists

VOLUME 19, NUMBERS 3 & 4: NOVEMBER 1993

BARRY S. NICHOLS, Editor  
7004 Ethan Allen Way,  
Louisville, KY, USA 40272



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## EDITORS' NOTES

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This issue contains information on our 20th annual meeting on NOVEMBER 12 & 13, 1993. It also contains an updated Kentucky butterfly checklist as a pull-out. Copies of the checklist can be made and used in the field. Be sure to check out the lengthy New Members section.

As there were no contributions for issue 19:3 by the deadline date of July 1, there was no newsletter. There was little sent by the October 1 deadline set for issue 19:3. As outlined in issue 16:4 (December 1990), the first deadline was shelved and this issue is combined, constituting issue 19:3 & 4.

The tentative deadlines for the first two issues of volume 20 (1994) are:

20:1 JANUARY 10, 1994

20:2 APRIL 20, 1994.

PLEASE WRITE THESE DATES DOWN IN YOUR CALENDAR. When submitting something of a timely nature (field trips, events, etc), please allow about 4 weeks after each deadline for newsletter completion.

My article file is EMPTY. We need your submissions. The most common question I am asked is "What kind of articles, notes, etc., do you want for the newsletter?" My answer is ANYTHING. If it is of interest to you, it is probably of interest to someone else. Collecting trip accounts, famous and/or important collections or collectors from (or around) Kentucky, type localities, rearing methods, trap design, lep photography, butterfly & moth gardening, etc. are all interesting topics. WE CAN ALSO USE PHOTOS. Do you feel like planning a field

trip/meeting? Send in your thoughts. The newsletter needs YOU! As we have many new members, I am repeating details for submission to the newsletter below.

Please put your full name, address, and phone number on the title page of your submission. I often need to get in touch with the writers and some of you are hard to track down. FOR THOSE OF YOU USING COMPUTERS, PLEASE send your submissions on disk (any size) in DOS or ASCII text. I can now also accept MACINTOSH documents. I will return all disks. I can also take documents in WORDPERFECT 5.0 (or previous versions), DISPLAYWRITE, FIRST CHOICE, WORD FOR WINDOWS, WORDSTAR and LOTUS WORKS. If you have another program and need to figure out how to transfer into DOS or ASCII text, drop me a line or call me at (502) 583-5835, speak into the answering machine and if I'm home I'll pick up.

You may also send contributions by ELECTRONIC MAIL to me at the following addresses:

BITNET: BSNICH01@ULKYVM

INTERNET: BSNICH01@ULKYVM.LOUISVILLE.EDU

This is, in fact, much easier than mailing disks, and you'll get an immediate reply. Those of you on COMPUSERV and some Computer Bulletin Board Systems can also send mail to these addresses.

When submitting pictures, please send me copies that can be cut. I need to be able to crop them to fit. Also, when sending articles please let me know if they will be printed in their entirety in other newsletters. I try not to duplicate material that will be printed elsewhere as many of our members also belong to other societies.

The NOTICES section is a free service to SKL members. Organizations, businesses, etc. may also run ads for the price of membership. All notices, research requests, etc. will run for two consecutive issues unless notified to extend them or to terminate them earlier.

### THE 20th ANNUAL MEETING OF THE KENTUCKY LEPIDOPTERISTS SOCIETY

We plan an exceptional meeting for you to celebrate our 20th anniversary of the founding of the THE KENTUCKY LEPIDOPTERISTS.

DATE: Friday, Nov. 12(8-11 PM) and  
Sat., Nov. 13 (10 AM - 6 PM)

PLACE: Friday: the Covells, 2333 Brighton  
Drive, Louisville, KY 40205  
Sat.: Meet at the Entomology Lab, 321  
Life Sciences Bldg., University  
of Louisville, Louisville, KY  
40292-0001

#### PROGRAM (tentative):

Friday night: pot-luck supper and slide fest at the Covells (bring a few of your favorite Lepidoptera slides to show).

Sat.: 10-12AM: swaps; identify specimens; buy-sell-trade books, equipment, etc., examine U. of L. collection and each other's handiwork, talk; free specimens for beginning Lepidopterists! Dr. Pyle will autograph your copies of his books, too.

1 - 2 PM: Business meeting, including election of officers and important discussion of future activities for the Society in its 20th year.

3 - 4 PM: Featured talk: Dr. Robert Michael Pyle, Gray's River, WA; author & founder of the Xerces Society: Birdwings, Blues, and Butterfly

Trees: Adventures in Butterfly Conservation around the World.

4 - 5 PM: Informal presentations by members (you are invited to participate; please let me know a title and length of time needed so I can make the program up!)

6PM: Dutch treat dinner at Masterson's restaurant (a tradition). This meeting should have something appealing for everyone interested in Lepidoptera. Please plan to be with us to learn more about butterflies and moths, especially if you are just getting started! Please let me know you are coming, and what pot luck dish you can bring Friday night. Contact Covell if you need maps and motel information.

### A BANNER YEAR FOR LEPIDOPTERA IN KENTUCKY by Charles V. Covell Jr.

With spring arriving a bit late this year, I thought it would not be such a fine season for Lepidoptera. While winter was not extreme, the early spring weather was cool to cold, and rarely sunny, at least around Louisville, Kentucky. The earliest daffodils were noted late in March, and no Forsythia as of 23 March.

On April 8 Entomology students and I went to Bullitt Co., KY, at a woodland spot known as the Bearcamp Road spot. There we found Incisalia henrici (Henry's Elfin) more abundant than normal, and two male Celastrina ebenina (Sooty Azure) even though it was mostly overcast.

Another trip there April 22 with Barry Nichols produced Battus philenor, Eurytides marcellus, Pterourus glaucus, Pieris virginiensis, C. ebenina, and I. henrici - the usual expectations for spring, but usually earlier. Barry reported several sightings of Clossiana bellona (Meadow Fritillary) at Shelby Campus, Univ. of Louisville, Jefferson Co., KY, and Bernheim Forest, Nelson

Co. As it turned out, this is one species that had an up year in Kentucky. Barry also noted P. glaucus, P. troilus, P. virginiensis, Falcapica midea, and Celastrina ladon (Spring Azure) at Bernheim, adding to the survey data for that Park/Preserve.

On May 6 I took two entomology students back to Bearcamp Road, where we added Amblyscirtes hegon, A. vialis, Poanes zabulon, Cyllopsis gemma and the year's first Danaus plexippus to the records for the year. The spring butterflies were still flying, later than normal.

On July 17 we held the 10th Annual July 4th Butterfly Count, operated by The Xerces Society and, now, the North American Butterfly Association (NABA). There were 12 people in 2 separate parties sampling Westport and the Horner Wildlife Sanctuary, Oldham Co., KY. We recorded 41 species (46 last year) and 4,317 individuals (1,218 last year), and would have had more if we had sampled a little earlier. Choice sightings included Pompeius verna, Papilio cresphontes, Feniseca tarquinius, Calycopis cecrops, Mitoura grynea, Libytheana bachmanii, Asterocampa celtis, A. clyton, and 356 Clossiana bellona. Greatest in numbers were 1,384 Colias eurytheme. Thanks to all of you who participated: Charlie and Katherine Covell, Linda Griffing, Jessica and Jay Hutti, Rob Mattingly, Burt and Mark Monroe, Barry Nichols, Jeffrey Pollock, Sarah Strange, Dan Sutton-Kolb.

While attending a faculty retreat on Aug. 18, at Bernheim Forest, Bullitt Co., KY, Burt Monroe and I recorded the following butterfly species at the Buddleia (Butterfly Bush) blossoms: Epargyrus clarus, Achalarus lyciades, Erynnis horatius, E. baptisiae, Ancyloxipha numitor, Atalopedes campestris, Atrytone logan, Wallengrenia egeremet, Euphyes vestris metacomet, Poanes zabulon, Polites coras, P. themistocles, P. origenes, Battus philenor, Papilio polyxenes asterius, Pterourus glaucus (including both yellow and dark females), P. troilus, Heraclides

cresphontes, Pieris rapae, Colias eurytheme, C. philodice, Eurema lisa, Hyllolycaena hyllus (female, by Lake Nevin; just killed by a spider who lost her dinner!), Everes comyntas, Vanessa virginiensis, Phyciodes tharos, Speyeria cybele, Limnitis arthemis astyanax, Junonia coenia, and Danaus plexippus. Total, 30 species casually observed during breaks in our meeting!

Butterflies continued to be abundant throughout August and early September. On Sept. 10-12 a number of us sampled the butterfly and moth abundance in a spot many of you know well. It is the cypress swampland along Little Bayou de Chien in Fulton Co., Kentucky, off Rt. 94, 5 miles from its junction with Rt. 51 and 2.5 miles east of the hamlet of Cayce. Bill Black says it is called Willingham Bottoms. Friday night was quite cool, so only one light trap was out and it did not bring in much. On Sat. morning, Sept. 11, we found butterflies very abundant in numbers of species and individuals, visiting the Climbing Hempweed (Mikania scandens), Eupatorium, and other plants in openings in the swamp. In greatest numbers were the tiny Least Skipper (Ancyloxipha numitor), the Pearl Crescent (Phyciodes tharos), and the Appalachian Eyed Brown (Satyrodes appalachia). All 3 of the Enodia satyrs were recorded, except that I found only one Creole Pearly Eye female (E. creola). The Pearly Eye (E. portlandia missarkae) was more common than usual, and a number were in bait traps; and the Northern Pearly Eye (E. anhedon) was well represented. This spot, incidentally, is the only place I have known where all 3 Enodia species occur together simultaneously. A good spot to conduct a study on mechanisms by which similar species maintain species identity! Other butterfly species recorded there include: E. clarus, H. phyleus, W. egeremet, A. campestris, Poanes yehl, P. zabulon, Euphyes dion, E. ruricola metacomet, Amblyscirtes aesculapius (several seen on ironweed blossoms only), Panoquina ocola (at least 4), B. philenor, P. glaucus, P. troilus, E. marcellus, C. philodice, C.



Fig. 1

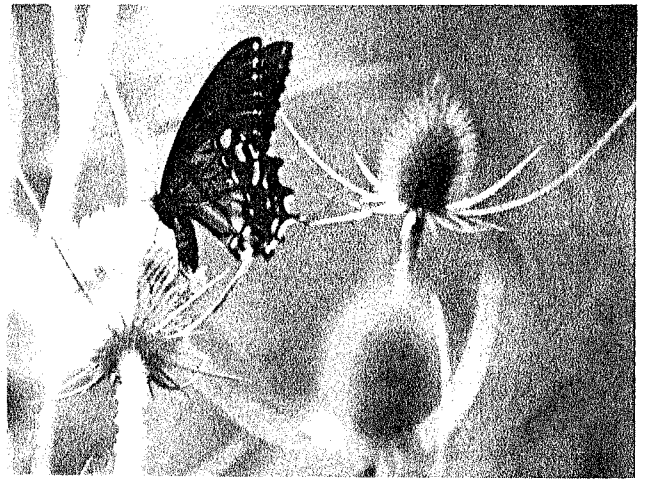


Fig. 2



Fig.3

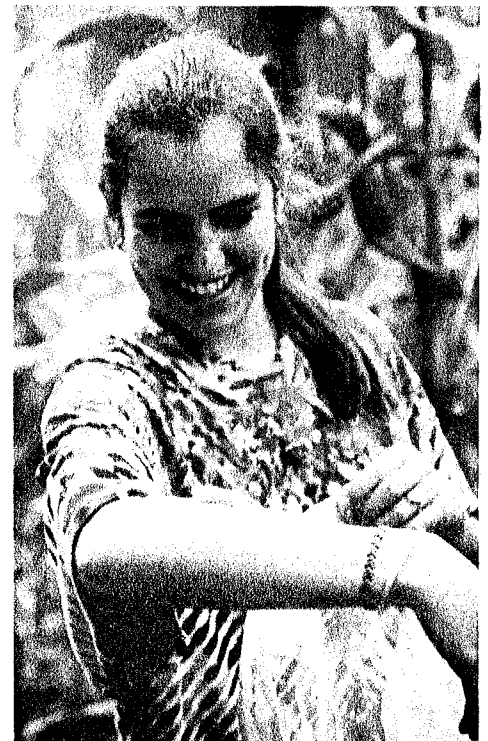


Fig. 4

**Figures 1- 4:** 10th Annual July 4, Butterfly Count (Actual Date July 17, 1993), Westport and Horner Wildlife Sanctuary, Oldham Co., KY.

Figure 1 (left to right): Jeffrey Polloc, Sarah Strange, Katherine Covell, and Dan Sutton-Kolb.

Figure 2: Pterourus glaucus (L.). Tiger Swallowtail, female, black form.

Figure 3 (left to right): (top row) Dan Sutton-Kolb, Jeffrey Pollock, Rob Mattingly, Barry Nichols, Jay Hutti, Charles Covell, Jessica Hutti. (bottom row) Katherine Covell, Sarah Strange.

Figure 4: Sarah Strange and "friend".

Photos courtesy of Charles V. Covell, Jr.

eurytheme, P. sennae, Eurema lisa, E. nicippe, Strymon melinus, E. comyntas, C. ladon, L. bachmanii, Polygonia interrogationis, P. comma, Vanessa virginiensis, V. atalanta, V. cardui, Euptoieta claudia, Junonia coenia, S. cybele, Chlosyne nycteis, Limenitis arthemis astyanax, L. archippus (Viceroy; Kentucky's state butterfly was common), Asterocampa celtis, A. clyton, and D. plexippus. Also, Richard Henderson saw what he is pretty sure was a Large Orange Sulfur, Phoebis agarithe, one of which he and Loran Gibson saw there some years ago! We did a lot of photography, including video; and the old hands showed the newer members some of the tricks of butterfly field work. One of the most amazing sights discovered was a small American elm tree which was "bleeding" sap, and attracting many butterflies. A cluster of about 25 Appalachian Eyed Browns (Satyrodes appalachia), plus individuals of Viceroy, Red-spotted Purple, Question Sign, Comma, Hackberry Butterfly, and Red Admiral came and went in impressive numbers. This tree was a very popular and rewarding photographic site. Later in the day we drove to the sleepy river town of Hickman, where Bill Black had put out some pans of rotten fruit alongside the Mississippi River near the Bunge Corp. soybean loading facility. This is the spot where, in 1981, I had caught a specimen of F1 hybrid "rubescens" of the Red-spotted Purple and the Viceroy. Some of the prizes there included a Little Sulfur (Eurema lisa) albino male, and Viceroy with almost no black line through the middle of the hindwing, and, you guessed it, another hybrid admiral, collected by Bob Gregg! This was a stone's throw from the spot where Bill Black and I found the two species intermating in Oct. 1990. That evening we enjoyed dinner at Capone's restaurant in Fulton, or at the motel, and then some of us went back later to Willingham Bottoms for some moth collecting. Loran and Richard went over to the next county to blacklight. Reed Watkins and I put up our lights on either side of the bridge, and we enjoyed showing others how to "moth." While the catch was not fantastic, Reed was rewarded

with a fine specimen of the Banded Sphinx (Eumorphia fasciata). Loran and Rich got one too, at their spot in Hickman Co. I put a trap up on the platform of a deer hunting perch nearby, and next morning found such good moths as Scopula cacuminaria (Geometridae), Parapamea buffaloensis, and an unknown (as yet) Papaipema species. Also, next morning, the bait traps were more full than I have ever experienced (those Monroe peaches I brought back from a visit to NC to see my mother did the trick). Species in the traps included Limenitis archippus, L. arthemis astyanax, Vanessa atalanta, Polygonia interrogationis, P. comma, Asterocampa celtis, A. clyton, Enodia portlandia missarkae, E. anthedon, E. creola (one female), and Satyrodes appalachia. Few of us were left Sunday morning, and John Enz and I left shortly after noon. In a small field of wildflowers we did add a couple of species to make it 56 for the whole weekend: Nastra lherminier and one Bronze Copper (Hylolycaena hyllus). We got home late, but with contented smiles as everyone accomplished what they intended: some people learned names and characteristics of butterflies new to them; others got some fine photo opportunities; and some good specimens were collected. We enjoyed the fellowship, and hope we can have some more such gatherings in the future. Present at the Sept. 10-12 field trip were: Bill Black, Keith Brown, Phil Jaeger, Carolyn Roof, Philip Sisto, (all from Paducah), Laura, Rebecca and Dave Hawkins (Marietta, OH), the Paris family from Nashville (Trevor, Cindy, Thomsen, Taylor, and Sarah), John Enz, Roland and Jeanine Girardet, Ravi Sahasrabudhe and his 2 sons, Loran Gibson, Rich Henderson, Bob Gregg, Reed Watkins, Roger Zebold, Adam and Sherry Jones, Brenda Saylor (IN), and me. We never got a group photo; in fact we never had everyone together at one time. But I was very pleased with the turnout. As fall comes on (early again?) we find that the monarchs have passed through already, and that the season is winding down.



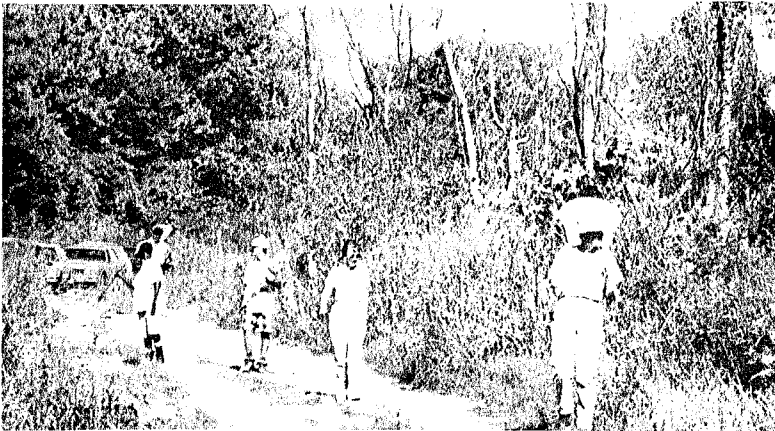


Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

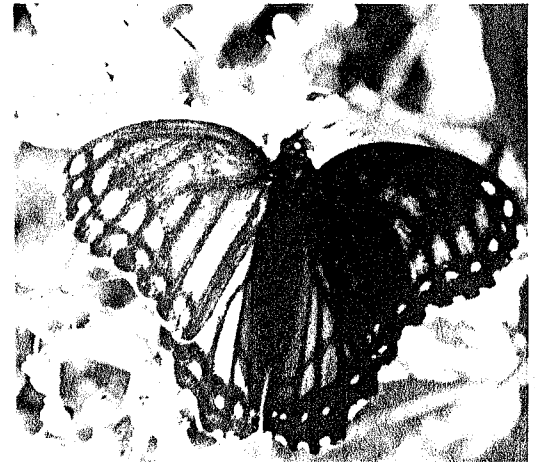


Fig. 12

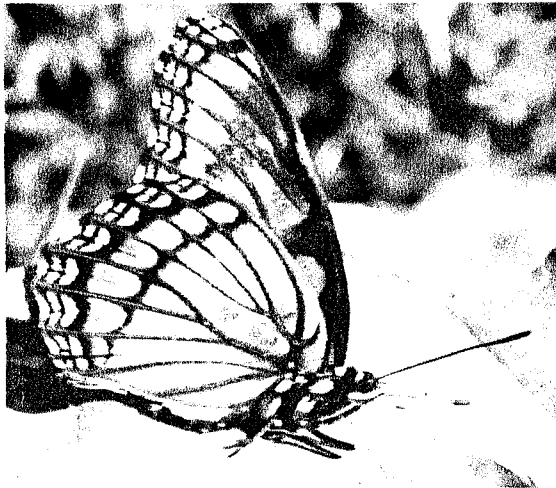


Fig. 13



Fig. 14

**Figures 5 - 14: Field trip to Little Bayou de Chien, Fulton Co., KY, September 10-12, 1993.**

Figure 5: "Hybrid spot" (left to right) Kieth Wood, Bill Black, Phil Jaeger, Jeanine Girardet, and Brenda Salyer.

Figure 6: *Amblyscirtes aesculapius* (F.) , Textor skipper.

Figure 7: Thomsen Paris on the prowl.

Figure 8: Reed Watkins nearly waist-deep in *Eupatorium*.

Figure 9: Loran Gibson and Roland Girardet.

Figure 10: (left to right) Carolyn Roof, Loran Gibson, Brenda Salyer, and Roger Zebold.

Figure 11: (left to right) Carolyn Roof, Dave Hawkins, Roger Zebold, and Loran Gibson.

Figures 12-14: *Limenitis arthemis astyanax* (F.) X *Limenitis archippus* (Cram.). Red Spotted Purple/Viceroy hybrid.

Photos courtesy of Charles V. Covell, Jr.



Fig. 15



Fig. 16



Fig. 17

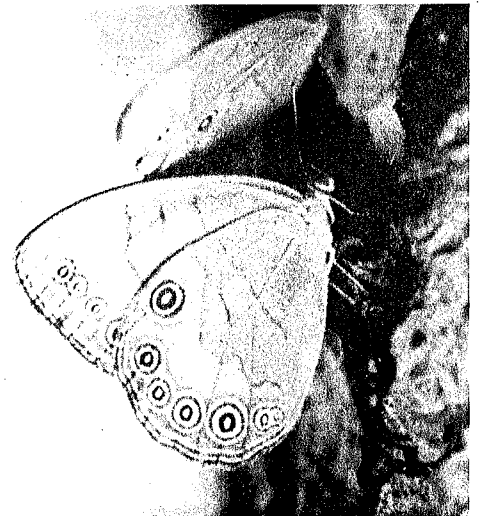


Fig. 18

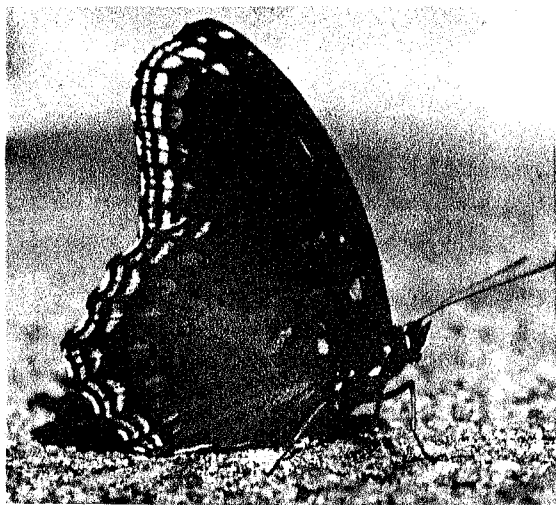


Fig. 19



Fig. 20





Fig. 21



Fig. 22

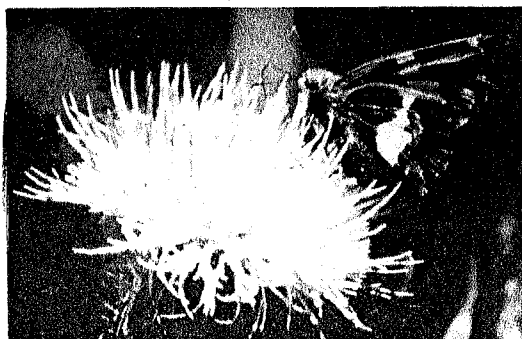


Fig. 23

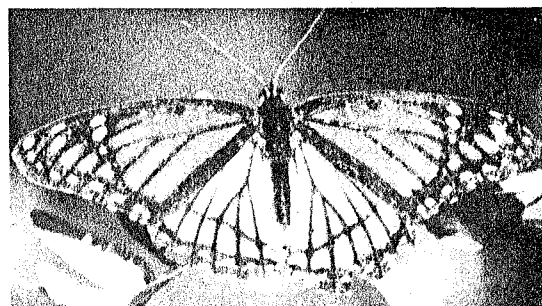


Fig. 24

**Figures 15 - 25:** Field trip to Little Bayou de Chien, Fulton Co., KY, September 10-12, 1993.

Figure 15: *Libytheana carinenta* (Cram.). American snout feeding on rotten fruit in a shallow pan.

Figure 16: Blacklighting in the Bayou(left to right) Laura Hawkins, Trevor Davis, Phillip Sisto, Thomsen Paris, Charles Covell, Carolyn Roof, and Roger Zebold.

Figure 17: Mississippi River at Hickman, Hickman Co., KY. (left to right) Phillip Sisto, Charles Covell, Carolyn Roof.

Figure 18: *Satyroides appalachia* (R. Chermock). Appalachian eyed brown feeding on American Elm sap.

Figure 19: *Limenitis arthemis astyanax* (F.). Red spotted purple.

Figure 20: Taylor Paris with an *Asterocampa celtis* (Bdv. & LeConte), Hackberry butterfly.

Figure 21: *Vanessa atalanta* (Gn.), Red Admiral nectaring on *Eupatorium*.

Figure 22: Demonstration on spreading butterflies. (left to right) Charles V. Covell, Trevor Davis, Taylor Paris, Thomsen Paris, and Phillip Sisto.

Figure 23: *Epargyreus clarus* (Cram.) Silver-spotted skipper on thistle.

Figure 24: *Limenitis archippus* (Cram.) Viceroy.

Photos courtesy of JohnENZ.

## NEWS AND NOTES

Covell writes of his summer travels "Early June saw me off for Ecuador, where I was co-leader of a study abroad program involving a week's cruise in the Galapagos Islands and five days at Imuya Camp in the Cuyabena Reserve rain forest of northeastern Ecuador. Not too much lepidoptering, as the program was not set up or permitted for that (and no dry ground at Imuya Camp!). Butterflies observed in the Galapagos included *Urbanus dorantes*, *Agraulis vanillae*, *Phoebis sennae marcellina*, *Leptotes parhassioides*, *Danaus gilippus*, and *D. plexippus*. We also visited Tinalandia one afternoon, having lunch with Tina and her son Sergio Platanoff, who is now managing the famous resort and looking for ecotourists to come and visit. We took a nature walk along the shady nature trail that borders the golf course, and I found a few nice butterflies there including *Thecla gibberosa* and sp. near *janthina*. A very enjoyable experience. By July 2 it was time to fly to Colorado, where I assisted fellow members Tom Emmel and Boyce Drummond in providing a Biology of Lepidoptera Workshop. Despite a blizzard on Horseshoe Mountain on July 4, we had a magnificent time, with 45 participants providing new friends and warm memories. Off next to Ft. Collins, where I participated in the Annual Meeting of the Lepidopterists' Society, speaking on gynandromorph Lepidoptera from a developing manuscript by Carlos Mielke and myself. The subject seemed to interest a number of people among the nearly 200 registered."

The Annual Lepidopterists Society Meeting for 1994 is scheduled for the first weekend in August, and will be held at the Day Butterfly Center, Callaway Gardens, GA. Make plans now to attend. (CVC)

John Hyatt of Kingsport, TN, writes "the trend toward seeing more and more southern visitors here in the mountains continues. Last year I

twice saw *U. proteus* here in the fall, and *P. sennae eubule* was in our yard in the spring (1 May) - both unheard-of phenomena here in years past. And last week I came home from work to see a very fresh female *Agraulis vanillae* on a flower in the yard. This was the second gulf fritillary I've ever seen in the mountains; the previous one was a late fall (Dec. 1, as I recall) visitor about 3 or 4 years ago. Maybe there is something to this climate change business!" Covell adds "a young 4-H entomology student from Nelson County, KY showed me her collection this summer, and it contained a gulf fritillary from her county collected June 4, 1993 - the earliest record of that species for Kentucky."

On August 28 the Lexington Herald-Leader ran a two-page color illustrated spread by one of our new members, columnist Beverly Fortune, called Kentucky's Bountiful Butterflies. Covell had provided information to her, and the Xerces Society provided 4 fine color photos of area butterflies to illustrate it. It was about the prevalence of butterflies in KY, and what the KY Lepidopterists and those at the Univ. of Louisville have been doing to survey the state fauna. In the article Covell offered to send people his list of nectar flowers to attract butterflies if they would send him a SASE. The article was further circulated on a wire service and printed in several other newspapers in CT, OH, MO, WI, and AL. It has resulted in about 90 requests so far for the nectar flower list, 12 of which are on our impressive new member list this time! (CVC)

Covell makes the following offer to Lexington Area Members: "With so many new members in the Lexington area, I wonder if it would not be a neat idea for me to come over and present a program on Kentucky butterflies and moths for you in Lexington. We would need a place to meet, and a time suitable for the greatest number - perhaps a Saturday or Sunday. Those of you in the Lexington area please let me know if you are interested, and I will arrange something. Perhaps our U. of KY members could hire a hall

so we could have this gathering, maybe in Jan. or Feb. when summer flowers and butterflies have a lot of appeal. Of course, you all could bring friends and family. Maybe a pot-luck supper to go with the show would be in order. My phone number is (502) 588-6771, and address: Dept. of Biology, Univ. of Louisville, Louisville, KY 40292." (CVC)

Congratulations to Paul Opler, who assumed the presidency of the Lepidopterists' Society at the Annual Meeting in Ft. Collins. And many thanks to him and Boris Kondratieff of Colo. State University for putting on a splendid meeting which many Kentucky Lepidopterists attended. Congratulations also to John Shuey, who has joined the staff of the Indiana Nature Conservancy. (CVC)

The present balance in the Society Treasury is \$861.38. (CVC)

#### RESEARCH REQUESTS

I seek any biographical or historical information relating to Professor R.R. Rowley, a well known Missouri lepidopterist who published extensively around 1900 in such journals as the *Canadian Entomologist*. He was interested in underwing moths (*Catocala*, Noctuidae) especially, but also generally in macrolepidoptera. His address was listed as Louisiana, Missouri, a town on the Mississippi River a few miles upstream from St. Louis, where he was Superintendent of Schools. He was also a paleontologist, and described new fossils from the Midwest. I find no biography listed in Carpenter's "Bibliography of Biographies of Entomologists" (Am. Midland Nat. 33 & 50), and the St. Louis Science Center claims not to have his specimens although they are listed as his repository in Arnett's "Insect and Spider Collections of the World". I am particularly interested in his correspondence files and Lepidoptera specimens. Any help would be

greatly appreciated. Robert Dirig, P.O. Box 891, Ithaca, NY 14851, USA.

Charles V. Covell, Jr. writes: "I feel privileged to be helping with a another book project on the Inchworm Moths of Ohio (which will be coauthored by Eric Metzler). If you have records of Geometridae from Ohio that you know has not been entered in the Database on Ohio Geometridae, please send the information to me or to Eric."

#### MEMBER'S NOTICES

Bob Belmont, P.O. Box 2626, Naples, FL 33939 wishes to obtain specimens of Geometridae (Inchworm Moths) from around the U.S. He offers Geometridae and Lepidoptera stamps and other philatelic items in exchange.

I have some seed of Butterfly Weed, Pink Coneflower, and Black-Eyed Susans that I could share for a self-addressed, stamped envelope. Contact Beckie Denton at 231 High Reeves Road, Richmond, KY 40475.

Interested in butterflies and moths on stamps? Join the Philatelic Lepidopterists of America and receive quarterly newsletters. Dues \$10 (\$12 outside U.S.A.). Send to Irving L. Finkelstein, Treasurer, 425 Springdale Drive NE, Atlanta, GA 30305-3816.

WANTED: Literature - Gifts of books, papers, reprints, seconds, etc. for a small but growing regional collection (35,000 + specimens) and library. A limited personal budget allows for repayment of shipping charges and some purchases. Contact: Stuart M. Fullerton RET, Curator UCFC, Biology Department, University of Central Florida, Box 25000, Orlando, Florida, 32816. Thank You!

FOR SALE: Butterfly Gardening Flash Card design set. The cards show foodplants, form, height,

flower, foliage, zone, culture tips, maintenance, the butterflies that feed on them, and much more! The set of 240 cards is \$7.00 (includes 8 pages of instruction) plus \$3.00 postage and handling. I also have an information packet on butterfly gardening that includes some wildflower seeds for \$3.00 postpaid. Please contact Kathy Wildman at HEARTS AND FLOWERS BUTTERFLY FARM, 3977 Condit Road, Sunbury, OHIO 43074.

The HEARTS AND FLOWERS BUTTERFLY FARM has a wide variety of services for those interested in gardening and Lepidoptera. You can call to set up an appointment to see the nursery, buy flowers, seeds, and such, and/or attend gardening lectures. For more information contact Kathy Wildman at HEARTS AND FLOWERS BUTTERFLY FARM, 3977 Condit Road, Sunbury, OHIO 43074 or call (614) 965-2133.

WANTED: Back volumes & numbers of the ENTOMOLOGICAL NEWS to trade for same needed to complete my set. Send SASE for list of offerta/desiderata to Roderick Irwin, Rural Route 3, Streator, Illinois 61364

FOR SALE: Light Traps, 12 volt DC or 110 volt AC with 15 watt or 8 watt blacklights. The traps are portable and easy to use. Rain drains and beetle screens protect the specimens from damage. For a free brochure and price list contact Leroy C. Koehn, 6058 Campbell Road, Mentor on the Lake, Ohio 44060 or call (216) 257-0796.

FOR SALE: Custom made light fixtures for permanent and/or stationary light traps. Stainless steel design; Mercury vapor, Sun Lamp, Blacklight and Blacklight Dark; together or in any combination; electrical control with photo-cells and/or timers. Includes plans for enclosures with rain drains and sorting trays. For more information contact Leroy C. Koehn, 6058 Campbell Road, Mentor on the Lake, Ohio 44060 or call (216) 257-0796.

WANTED: Livestock of any common Caligo species. I'd prefer larger larvae but will take any eggs and/or larvae. Please contact Barry S. Nichols, 7004 Ethan Allen Way, Louisville, KY 40272, USA. Or E-MAIL me at BSNICH01@ULKYVM (BITNET) or at BSNICH01@ULKYVM.LOUISVILLE.EDU (INTERNET).

Fine bait traps for sale. Normal, cone-type traps and a "tropical" type with a wide lip instead of a cone. They are 3 ft. high, 15 in. in diameter, and have a 22 in. access zipper and a 16 sq. in. plywood base. Those with cones have a cone opening of 4 inches. Cost is \$35.00 (plus \$3.00 shipping). Contact Chris Ward at 1474 Melbourne Dr. SE, Girard, OH 44420-1332, or call (216) 539-5374 for more information.

BACK ISSUES of the Kentucky Lepidopterist may be ordered by volume number for \$5.00 per volume (year). All volumes are available. Contact Charles V. Covell at the Dept. of Biology, University of Louisville, Louisville, KY 40292 USA, for details or to place an order.

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THE FAR SIDE



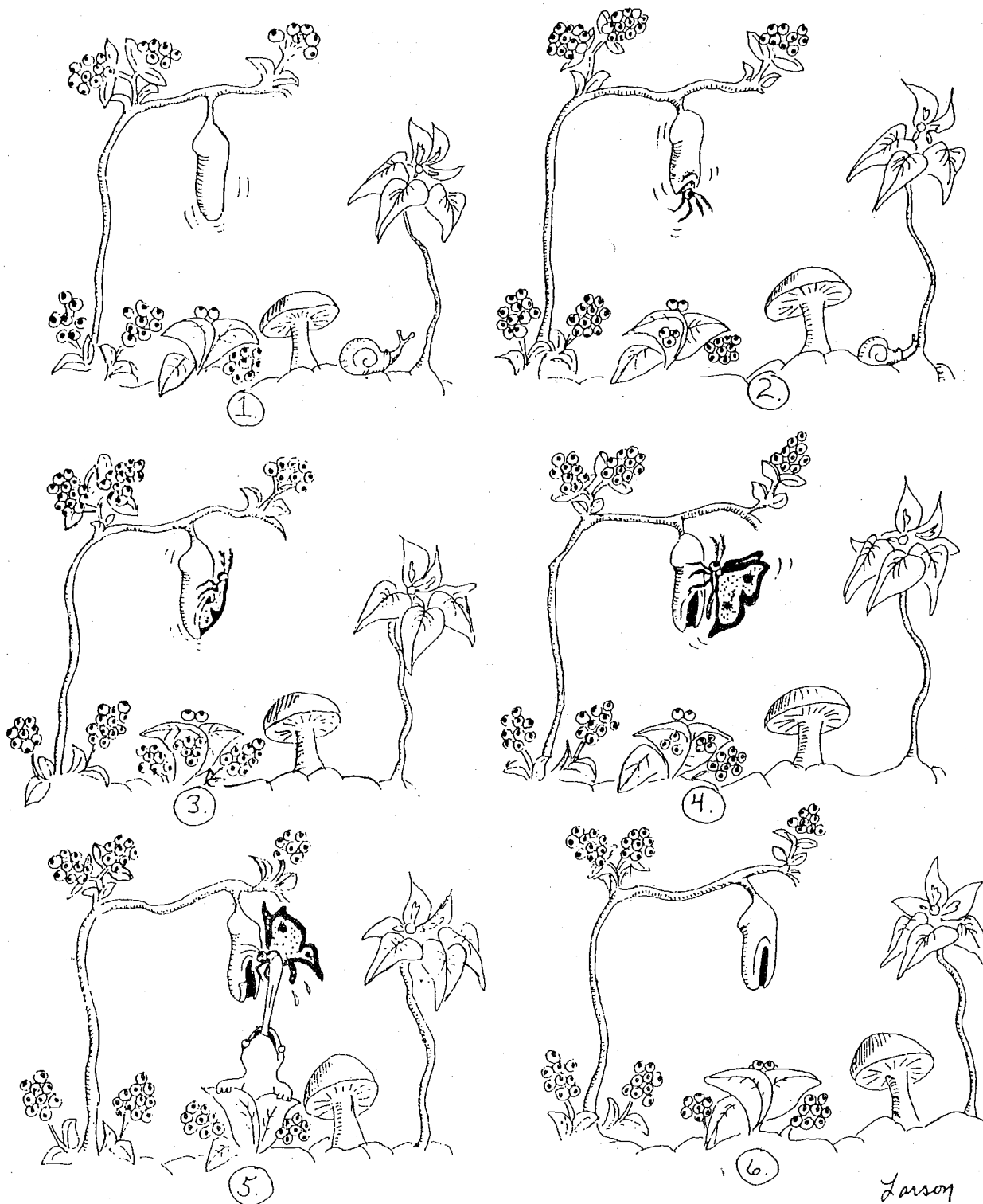
"Yeah, yeah, buddy, I've heard it all before:  
You've just metamorphosed and you've got 24  
hours to find a mate and breed before you die.  
.. Well, buzz off!"

The Far Side



Entomological rodeos

# METAMORPHOSIS



Larson

The KENTUCKY LEPIDOPTERIST is the quarterly newsletter of the Society of Kentucky Lepidopterists. Membership dues are \$5.00 per calendar year. Send dues to Charles V. Covell, Jr., Treasurer, Department of Biology, University of Louisville, Louisville, KENTUCKY 40292 USA.

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