
KENTUCKY LEPIDOPTERIST

Newsletter of the Society of Kentucky Lepidopterists

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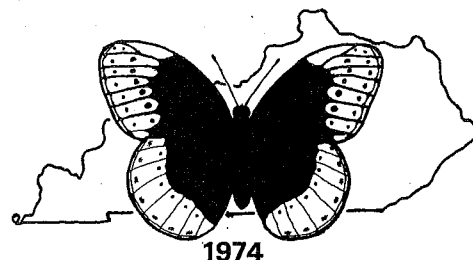
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EDITORS' NOTES

We are saddened by the death of charter member Dr. Burt L. Monroe Jr. He was an active participant in the SKL. He joined the Lepidopterists' Society in 1949. He surveyed butterflies in most of the Kentucky counties, adding many records. He also regularly participated in the 4th of July Butterfly Count, usually surveying the Westport area. He was a 1993 recipient of the SKL Award for Extrordinary Contributions to Kentucky Lepidopterology. We extend condolences to his family and friends. He is missed. Additional accomplishments are presented later this issue.

The NORTH AMERICAN BUTTERFLY ASSOCIATION (NABA) has a New Members Program designed to benefit other lep organizations. If members of the SKL would like to join NABA, rather than communicate directly with NABA, the SKL member sends the dues to an SKL officer (in our case, Charles Covell) Our treasurer then forwards all monies to NABA. NABA in return sends a check back to SKL for ONE-HALF THE TOTAL AMOUNT. This is a great opportunity to join NABA and help out the Society of Kentucky Lepidopterists at the same time. NOTE: According to NABA President Jeffrey Glassberg, the new dues MUST be submitted by our officer NOT by individuals. NABA dues are as follows:

Regular USA	\$20.00
Regular outside USA	\$25.00
Family/Sponsor/Institution USA	\$30.00
Family/Sponsor/Institution outside	\$35.00
Patron	\$100.00
Life member USA	\$350.00
Life member outside USA	\$400.00

NABA is a 501(c)(3) organization and donations are tax deductible. For further details please contact Covell (address and phone later in this issue).

Here we are with the "season" in full swing (seriously bad pun intended). This issue contains information on the summer butterfly count, a newly

proposed summer field "sweep", fall field trip info, preliminary info on the fall meeting, and much more.

We experienced a small surge in newsletter submissions. I thanks those who have submitted and those who are working on submissions. If you are thinking about sending something for the newsletter-- please do! I have held a couple of things for the next issue. If you do not see your article here please be patient. The deadlines for the next two issues are as follows:

20:3 July 15, 1994

20:4 September 15, 1994.

PLEASE mark them on your calendar.

A TRIBUTE TO DR. BURT L. MONROE, JR.

By Varley E. Weidemann

On May 14th our colleague and friend, Dr. Burt L. Monroe, Jr., died after a long battle with renal cell carcinoma.

Burt was born in Louisville on August 25, 1930 and attended school in Anchorage and Louisville and received his undergraduate degree in Biology from the University of Louisville in 1953. He was a Naval R.O.T.C. cadet and became a naval pilot and flight instructor, where he served from 1953 to 1959. After completing his service obligation he attended Louisiana State University where he obtained his Ph.D. in Vertebrate Zoology in 1965 with a dissertation subject of *The Birds of Honduras*.

He became an Assistant Professor at the University of Louisville in September 1965 where he taught Ornithology, Herpetology, Systematic Zoology, and Zoogeography and supervised the Master's thesis and Ph.D. dissertation research of numerous graduate students. For his teaching he was honored with the Philip Davidson Award for Outstanding Teaching by the students of the College of Arts and Sciences.

In 1970 he was elected Chair of the Department of Biology and continued in that capacity through June of 1993.

Burt was an internationally recognized authority on birds and coauthored, with Charles Sibley, the 1990 publication of *Distribution and Taxonomy of Birds of the World*. He served as Treasurer and eventually President of the American Ornithological Union and was also Chair of the Committee on Classification and Nomenclature of that organization and authored the 1983 *A.O.U. Checklist of North American Birds*. He continued to work on the updated version of this publication until just a few weeks before his death. For his contributions to the American Ornithological Union he was honored by being named a Fellow in that organization in 1973. He was also named a Fellow in the American Association for the Advancement of Science in 1981. He was also a member of other national ornithological, and herpetological organizations. Another publication on the birds of Kentucky will be published this October or November.

He was an active participant and past President of the Kentucky Ornithological Society and the Beckham Bird Club. He served on the Board and was Chair of the Louisville Zoological Commission, and served on the boards of the Isaac W. Bernheim Foundation and the Nature and Conservation Center, Inc..

As many of you know, Burt was interested in UFOs and was the Kentucky Scientific Consultant to the Aerial Phenomenon Research Organization based in Tucson, Arizona. He was also the Kentucky Director of MUFON, the other UFO organization based in Evanston, Illinois.

Most of you probably remember him best as he sat, wearing his red jacket, at the scorers table at University of Louisville basketball games and could usually be seen at games on the road, especially when tournament time came around. Not only was Burt an avid sports fan and keen competitor, he was an able administrator as the Faculty Representative to the NCAA. He also served three times as President of the Metro Conference. A number of individuals have told me how much Burt contributed with his deep understanding of the "rules and regulations" governing collegiate athletics, especially with reference to eligibility and grades and truly was concerned about fairness to student athletes.

He is truly missed for his intellect, his ability to inspire, and his keen sense of humor.

NOTES ON THE SPRING FIELD TRIP

by Paul A. Florence

We started off the morning of April 9th by travelling to Otter Creek Park. The weather was cool, cloudy and windy. The pickings were slim and we only collected a few Geometrid moths and several *Celastrina ladon* (Cramer) (Spring Azure) (MONA 4363).

From there some of us went to Bearcamp road in Bullitt County. The weather started to cooperate and thirteen species were collected and/or identified. This list includes the following:

- Erynnis brizo* (Boisduval and Leconte) (Sleepy Dusky Wing) (MONA 3946),
- Erynnis juvenalis* (Fabricius) (Juvenals Dusky Wing) (MONA 3947),
- Papilio glaucus* (Linnaeus) (Tiger Swallowtail) (MONA 4176),
- Eurytides marcellus* (Cramer) (Zebra Swallowtail) (MONA 4184),
- Anthocharis midea* (Hubner) (Falcate Orange Tip) (MONA 4207),
- Colias philodice* Godart (Clouded Sulfur) (MONA 4209),
- Celastrina ladon* (Cramer) (Spring Azure) (MONA 4363),
- Polygonia comma* (Harris) (Comma) (MONA 4421),
- Incisalia henrici* (Grote and Robinson) (Henry's Elfin) (MONA 4326),
- Celastrina ebenina* (Clench) (Dusky Azure) (MONA 4364),
- Nymphalis antiopa* (Linnaeus) (Mourning Cloak) (MONA 4432),
- Boloria bellona* (Fabricius) (Meadow Fritillary) (MONA 4465), and
- Psychomorpha epimenis* (Dru.) (Grapevine Epimenis) (MONA 9309).

Those in attendance were as follows: Charles Covell, Michelle Bennett, Rob Carlisle, Rozenna Carr, Kevin Smith, Melanie Medroso, Mark Monroe, and myself.

John Enz and I have been doing quite a bit of collecting at Bernheim Forest, Bullitt and Nelson Counties, Kentucky this spring. Thus far we have collected:

- Erynnis brizo* (Boisduval and Leconte) (Sleepy Dusky Wing) (MONA 3946),

Erynnis juvenalis (Fabricius) (Juvenals Dusky Wing) (MONA 3947),
Papilio glaucus (Linnaeus) (Tiger Swallowtail) (MONA 4176),
Eurytides marcellus (Cramer) (Zebra Swallowtail) (MONA 4184),
Pieris virginiensis (W.H. Edwards) (West Virginia White) (MONA 4196),
Pieris rapae (Linnaeus) (Cabbage White) (MONA 4197),
Colias philodice Godart (Clouded Sulphur) (MONA 4209),
Anthocharis midea (Hubner) (Falcate Orange Tip) (MONA 4307),
Everes comyntas (Godart) (Eastern Tailed Blue) (MONA 4361),
Celastrina ladon (Cramer) (Spring Azure) (MONA 4363),
Vanessa atalanta (Linnaeus) (Red Admiral) (MONA 4437),
Phyciodes tharos (Drury) (Pearl Crescent) (MONA 4481),
Cyllopsis gemma (Hubner) (Gemmed Satyr) (MONA 4573), and
Danaus plexippus (Linnaeus) (Monarch) (MONA 4614).

A couple of moths that we have collected this spring worth mentioning are a male *Callosamia promethea* (Dru.) (Promethea Moth) (MONA 7764) and *Antheraea polyphemus* (Cram.) (Polyphemus Moth) (MONA 7757). Both of these moths were collected at Bernheim Forest.

After communicating with Dr. Varley Wiedeman, the Research Director at Bernheim Forest, it seems possible to arrange a summer field trip there. Not a great deal of collecting has been done at Bernheim, and many records are possible. John and I will be collecting Bernheim Forest year round, anyone interested in joining us can contact either of us at the following address and/or phone number.

John Enz or Paul Florence
 Department of Biology
 University of Louisville
 Louisville, KY 40292
 (502) 852-6771

NEWS & NOTES

The Society of Kentucky Lepidopterists will sponsor "THE NORTH AMERICAN BUTTERFLY ASSOCIATION-XERCES 4th of July Butterfly Count" held at the University of Louisville's Horner Wildlife Sanctuary in Oldham County near Brownsboro,

Kentucky on **Saturday, JULY 9, 1994**. This year marks the TENTH year we have surveyed this spot. We will meet at the General Store in Brownsboro (the only one there), off I-71 at Exit 14, at 9:00 AM. Bring water, lunch, and equipment for collecting, photographing, etc. This is a good chance to learn to identify butterflies on the wing, and contribute to our knowledge. Call Charles Covell or Barry Nichols at the Biology Department, University of Louisville, at (502) 852-6771 or 6772 for further information and to let us know you'll be coming. There will be a picnic lunch, possibly a picnic supper, and moth collecting that night if you wish. The rain date will be July 10. Kids and people new to Lepidoptera are encouraged to attend. (Charles V. Covell, Jr.)

THE LEPIDOPTERISTS' SOCIETY will hold their 45th Annual Meeting at Calloway Gardens in Pine Mountain, GEORGIA, August 5-7, 1994. They will also have a photo contest. Categories for the contest are Moths; Butterflies; and Life History Sequence or individual photos of larvae and pupae. The deadline for entries is July 1, 1994. For further info write Dr. J.Y. Miller, Allyn Museum of Entomology/FLAMNH, Sarasota, Florida 34234. (Barry S. Nichols)

FALL FIELD TRIP: We plan to go to Fulton County, Kentucky again this September 9-11 (Friday to Sunday) to collect, watch, and photograph butterflies and moths. Last year's trip was very successful, and we hope to have you with us this time. We recorded 56 butterfly species over the weekend, including a new western limit for *Clossiana bellona*(F.), the Meadow Fritillary (MONA 4465); and another Red Admiral x Viceroy collected at Hickman, KY by Bob Gregg. NOTE: A color article on this subject will be in Journal of the Lepidopterists' Society, October 1994. Contact Charles V. Covell for additional information, HOME = (502) 456-6122 or WORK = (502) 852-6771. (CVC)

The SOCIETY OF KENTUCKY LEPIDOPTERISTS will have our 20th Anniversary Annual Meeting Friday and Saturday, NOVEMBER 11-12, 1994. Our special guest speaker will be Dr. Paul A. Opler of the National Biological Survey and formerly of the Office of Endangered Species. He is currently President of the Lepidopterists' Society, and author of the revised Peterson Field Guide to Eastern Butterflies and also Butterflies East of the Great Plains. He will give a seminar in the Biology Department at the University of Louisville on Friday entitled "History and Status of Endangered Insect Conservation in North America: Some Case Histories". His address to the SKL Saturday is entitled "Western Lepidoptera Studies: Stresses, Photography, and Mercury Vapor Lights".

Mark your calendars now and plan to be present at this historic meeting, whether you are a beginner or an old hand at any aspect of Lepidopterology. Contact Charles V. Covell for further details. (CVC)

INVERTEBRATES IN CAPTIVITY PROCEEDINGS

AVAILABLE: The Proceedings of the 1st Conference, Invertebrates in Captivity, held in Tucson, Arizona, August 1993 include most of the papers given and hand-outs from USDA on the importation and containment requirements on insects. 160 pages of information useful to any institution currently or planning to exhibit and interpret living invertebrates. Obtain yours while supply lasts for \$20.00 each, postpaid from SONORAN ARTHROPOD STUDIES INSTITUTE, P.O. Box 5624, Tucson, Arizona 85703, or call (602) 883-3945; FAX (602) 883-2578. (BSN from post over Entomo-L)

Don Miller of Lexington, KY writes: I'm just writing to report on this cold, slushy day (March 9, 1994), that on February 18, on a glorious sunny day, I observed four individuals of *Polygonia* (almost certainly comma) flying and basking in the University of Kentucky's Robinson Forest, Breathitt County. Are these the first butterflies of the year? [Ed. Note: Anyone else have some earlier butterflies?]

Charles Covell identified a new state record for Kentucky:

MONA# 5171 *Diasemiopsis leodocusalis* (Wik.), from McCracken Co., Mayfield Creek Bottoms southwest of Paducah, October 6, 1989, at light, leg. C.V. Covell Jr. (CVC)

BACK ISSUES of the Kentucky Lepidopterist can be purchased. Pricing is as follows:

Volume 1-18	\$1.25 individual issue/\$5.00 per volume
Volume 19	\$2.50 individual issue/\$5.00 per volume
Volume 20	\$2.50 individual issue/\$10.00 per volume.

All prices are postpaid. (BSN)

RIKER MOUNTS FOR STORAGE OF LEPIDOPTERA

by Robert V. Gregg

Beginning collectors: Have you considered storing your collection in Riker Mounts - those thin, glass covered cases of heavy cardboard? I'd like to

discuss the advantages and disadvantages of Riker Mounts for this purpose.

As I meet serious well-travelled collectors (who hardly ever use Rikers) they bemoan that at least one third of their collection is still papered, often never even carefully examined. Why is that? It's because of the time consuming labor of pinning out the specimens.

In a Riker storage system the pinning methods are different. Instead of expensive deep-slotted pinning boards, one may use balsa wood in three foot long strips glued together to create a grooved table. By varying the thickness of the balsa wood and the width of the groove, five or six varied boards will permit a snug fit from gelechiids to cecropias. On such boards the insect matches the groove and rests on the bottom of it. All parts will be aligned and pinned in direct contact with the wood. I use 0-0 size pins except for the largest insects. You don't have to be particular about the angle of the thorax pin (dip the tip in Vaseline to facilitate later removal). The result is a much speedier pinning technique of 36-40 insects an hour. Each move is sure, fast and rarely vexing. Besides, I recover all my pins. During a collecting trip of several days I daily pin out insects likely to present problems if allowed to dry, such as skippers and small blues. They come home in a Riker Mount.

How about cost? An 8"x12" Riker Mount costs \$5.75; 15"x18" Cornell boxes \$46.00; Schmidt boxes \$36.00. Cost-per-square-foot for Riker = \$8.64; Cornell = \$24.50, Schmidt = \$20.98. Of course you can "shingle" the arrangement in Cornell or Schmidt boxes increasing the usable space. Likewise, you can overlap wings in Rikers to save space temporarily or for "extras" but it would spoil the point of providing a handsome group of a species. (I always display at least some insects upside down.)

All of the cases provide adequate protection from dermestid infestation. The real danger is the possible introduction of dermestids when you add insects to your cases. If undetected, dermestids will destroy the contents of a Schmidt or Cornell box. In Riker Mounts, dermestids get only the one lepidopteran that hosted their entry. They can't move through the padding. In practice, I put half of a mothball in the corner of the Riker under the padding when several new Lepidoptera are added.

Rikers avoid the common problem of broken antennae and drooped wings, but they introduce a different one. Some insects, like the corn boring moths and yucca skippers, are greasy. The wings will clear

and stick to the glass lid. A genuine problem which degreasing with acetone doesn't solve. Also, you will be cleaning (Windex) the glass lid at least once a year for a while as juices from the insect evaporate and watermark the glass.

I tape a piece of paper to the back of the Riker to keep data on the catches. This avoids cluttering the display. Rikers are best stored on edge.

Present day Riker Mounts are provided with a coarse plastic mesh padding suitable only for large Lepidoptera. My wife solved the quality padding problem by suggesting the upper third be replaced by a layer of non-woven polyester quilt batting (brand name: Pellon Fleece, \$2.95/yard).

Another negative: Your collection may be an unacceptable gift to an institution unless pinned (which may be in the back of your mind). Nevertheless, when I pull out a 12"x16" Riker full of *Anartia jatrophae* (White Peacocks) (MONA 4443); and show off a display of variation in orange, brown, and size; I remember trips to Florida, Costa Rica, Ecuador, Mexico, Brazil, Peru, and the Bahamas, and I smile. Write me for further details - love to show them off. Dr. Robert V. Gregg, 1304 Old Taylor Trail, Goshen, Kentucky 40026.

CHANGES IN OHIO'S WILDLIFE REGULATIONS

by Eric H. Metzler

The Ohio Department of Natural Resources (ODNR), Division of Wildlife, in cooperation with The Ohio Lepidopterists, announced a change in the Ohio Wildlife Regulations that will allow Lepidopterists to retain specimens of butterflies and moths that are declared to be endangered in Ohio. The announcement recognizes the close cooperation of the ODNR, Division of Wildlife and The Ohio Lepidopterists in providing the data that contributed to the Division of Wildlife's understanding that some species are imperiled in Ohio.

The change in the Ohio Wildlife Regulations was made to encourage members of The Ohio Lepidopterists to continue their research in Ohio. In making the announcement, Richard B. Pierce, Chief of the Division of Wildlife, said "I consider the information provided to the ODNR, Division of Wildlife by The Ohio Lepidopterists, on the status of moth and butterfly populations, to be vital in managing and protecting this important segment of Ohio's wildlife. It is certainly in

the Division's best interest to facilitate the collection of information by those who are qualified and motivated to do so. A second key factor is ensuring that there is close cooperation in the sharing of data and development of protective strategies."

Ohio's Division of Wildlife and The Ohio Lepidopterists society continue to be leaders in recognizing the mutual benefits of working together. It is not easy to chart a course that appears to contradict popular thinking pertinent to protecting endangered species, but the rules of protection, that were not developed with insects in mind, can be recreated to encourage participation by the persons most capable of monitoring populations of butterflies and moths, lepidopterists. Although it is not easy to recast long held ideas, openness to new ideas, while recognizing the sincerely held beliefs of traditional thinking, can lead to a new way of doing things.

The new rules for Ohio took effect on 15 May 1994. The revised language states: "It shall be lawful for any persons to collect and possess the following wild animals for their own personal use. It shall be unlawful to sell, barter, trade, or offer for sale any wild animal, or parts thereof, listed in this paragraph:" The paragraph proceeds to list most of Ohio's endangered butterflies and moths. Federally protected species are not effected by the changed regulations.

"We've made a lot of progress toward conservation of lepidopterans in Ohio," said Pierce. "There is still a tremendous amount of work still to be done. With our united efforts, I am confident that progress will continue to be made." The action by the Division of Wildlife to modify their regulations are part of the partnership.

The Ohio Lepidopterists society conducted a six year Comprehensive Survey of Moths and Butterflies in Ohio for the ODNR, Division of Wildlife. During the survey, which ran from 1986 through 1992, The Ohio Lepidopterists accumulated nearly 100,000 individual records of butterflies and moths in Ohio. The Ohio Lepidopterists discovered that several species of butterflies and moth were endanger of being extirpated from Ohio due to threats to critical habitats. Two major publications, *Butterflies and Skippers of Ohio*, and *The Owllet Moths of Ohio*, also came from the six year effort. As part of the survey, The Ohio Lepidopterists also own and curate a synoptic collection of Ohio's butterflies and moths at The Ohio State University Museum of Biological Diversity. For more information, you may contact: The Ohio Lepidopterists, 1241 Kildale Sq. N., Columbus, Ohio 43229-1306.

SOME VIRGINIA REGULATIONS

submitted by Barry S. Nichols from the 1994 Virginia
Freshwater & Saltwater Fishing Regulations

In this flurry of collecting regulations and lack of knowledge regarding them, I am interested in publishing all possible policies that have an effect on the scientific community involving invertebrates. As a number of Lepidoptera have an aquatic larval stage, this may be of interest to SKL members. The following was found in the 1994 Virginia Freshwater & Saltwater Fishing Regulations:

NONGAME FISH, REPTILE, AMPHIBIAN, AND AQUATIC INVERTEBRATE REGULATIONS

General: It shall be unlawful to take, possess, import, cause to be imported, exported, buy, sell, offer for sale or liberate within the Commonwealth any wild animal unless otherwise specifically permitted by law or regulation. Albino reptiles and amphibians and domestic animals may be imported, possessed, and sold. A list of domestic animals and the Department's official list of "Native and Naturalized Fauna of Virginia" is available from the Richmond and regional offices

NATIVE AND NATURALIZED SPECIES-POSSESSION LIMITS:

It shall be lawful to capture and possess live for private use and not for sale no more than 5 individuals of any single species of amphibian and reptile and 20 individuals of any single native or naturalized species of aquatic invertebrate and nongame fish unless specifically listed below: [Note: what follows does not seem to address invertebrates and is therefore cut]. For further information contact VIRGINIA DEPARTMENT OF GAME AND INLAND FISHERIES, 4010 West Broad Street, P.O. Box 11104, Richmond, VA 23230-1104, (804) 367-1000.

ON ANOTHER FRONT...

submitted by Barry S. Nichols from a post by Ken Philip
on the ENTOMO-L discussion group on the INTERNET

There is a law in Alaska, designed to protect marine invertebrates, which is so poorly written that it prohibits collecting any insect which has an aquatic stage at any point during its life cycle---even mosquitoes. The people in Juneau who administer this

law are free to admit that it's not well written--but showed no inclination to change it.

I was discussing this situation with someone at the Alaska Department of Fish & Game---and suggested that one way to get this law changed would be for everyone to obey it. That idea was gleefully adopted, and the result was that a large number of schools all over the state began writing Juneau for permits to collect aquatic insects. After this went on a while, Juneau gave up---and issued a general statewide permit allowing anyone to collect aquatic insects for scientific or educational purposes.

MEMBER'S NOTICES

WANTED: Contacts for Buy/Sell/Exchange with collectors and/or dealers worldwide. Have large selection of butterflies, moths, and beetles from remote regions of the former USSR. Haves include a large selection of *Parnassius*, *Colias*, Satyridae, and Carabidae. I'm interested in all attractive butterflies, moths, beetles, and other insects. Write Dr. Iliia N. Osipov, Novogireevskaja str. 53-8, 111394, Moscow, RUSSIA. FAX: (7-095) 292-65-11 and please mark at top "for BUTTERFLIES, Box 3081". You can also call (7-095) 301-25-14.

Bob Belmont, P.O.Box 2626, Naples, Florida 33939. I wish to obtain specimens of Geometridae (Inchworm Moths) from around the U.S.A. I offer Geometridae and Lepidoptera stamps and other philatelic items in exchange.

FOR SALE: To the highest bidder (starting at \$400.00) my autographed presentation copy from Dr. Comstock of his special gift edition (200 copies printed) of Butterflies of California -- enhanced by an original cartoon of his inserted inside the front cover. Condition: cover worn but fair, spine broken loose, inside good to excellent, signatures solidly sewn, etc. For more information contact Paul Grey at Rte. 1, Box 216, Lincoln, ME 04457.

FOR SALE: Best offer. INSECTS OF HAWAII by Elrod Zimmerman (1958), Volume 7: Macrolepidoptera, 529 pp. and Volume 8: Pyraloidea, 456 pp. Original paperbacks, pristine condition. Glorious monographs, exhaustive original researches, thickly studded with black and white photos, line drawings of structures, etc. Summaries of all pertinent literature to that date plus a full formal bibliography. Every lepidopterist should get a look at this work too see what can be achieved. It makes MONA look puny. For more

information contact Paul Grey at Rte. 1, Box 216, Lincoln, ME 04457.

FOR SALE: Atlas of Western USA Butterflies, Including Adjacent Parts of Canada and Mexico, by Ray E. Stanford and Paul A. Opler, January 1993. 275 pp, over 1000 species mapped by county (USA), spiral-bound, with November 1993 update/insert. Cost \$20.00 including postage and handling. To order, send check to Ray E. Stanford, 720 Fairfax Street, Denver, Colorado 80220-5151.

Interested in butterflies and moths on stamps? Join the Philatelic Lepidopterists of America and receive quarterly newsletters. Dues are \$10.00 (\$12.00 outside U.S.A.). Send dues to Irving 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 eight 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 & Flowers Butterfly Farm, 3977 Condit Road, Sunbury, OHIO 43074 or call (614) 965-2133.

WANTED: Back volumes and numbers of the ENTOMOLOGICAL NEWS to trade for same needed to complete my set. Send SASE for list of offerata/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 at 207 Quail Trail, Greenwood, Mississippi 38930-7315.

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 at 207 Quail Trail, Greenwood, Mississippi 38930-7315.

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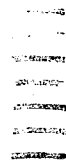
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