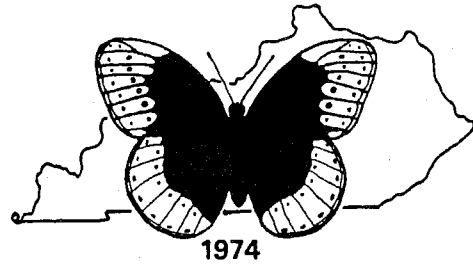


KENTUCKY LEPIDOPTERIST

NEWSLETTER OF

The Society of Kentucky Lepidopterists



VOL. 15, NO. 2

M. L. McInnis, Editor

April, 1989

CATERPILLAR MAKES THE COVER OF SCIENCE

by George J. Balogh

An excellent color larval photograph of spring brood Nemoria arizonaria (Geometridae: Geometriinae), an oak catkin mimic, made the cover of a recent issue of Science (A Diet-Induced Developmental Polymorphism in a Caterpillar by Erick Greene, Science 243:643-6, 3 February, 1989). The resemblance of the larva to its oak catkin food is impressive in itself but this species of Geometrid lives a different lifestyle during the summer with a corresponding dramatic morphologic change in the larva.

Both spring and summer brood eggs of Nemoria arizonaria hatch into larvae that look initially the same. In nature the spring brood larvae develop into catkin mimics that are yellow in color with reddish stamen-like markings. Their rugose integument is ornamented with large dorsolateral processes. In contrast, the summer brood larvae develop into mimics of first year oak twigs and feed on leaves after catkins have fallen from the trees. These larvae are greenish-grey. Their integument is less rugose and the dorsolateral processes are smaller. Side by side color photographs of both the spring and summer brood larvae are included in the article.

If the change in appearance isn't remarkable enough, consider that the two

larval forms differ in behavior and head and jaw size. Spring brood larvae have small jaws, feed on soft catkins, and choose catkins to rest on. Summer brood larvae have larger mouth parts and larger heads to accommodate the more massive jaw musculature needed to feed on tough oak leaves and these summer larvae show preference for twigs as resting sites.

Laboratory rearing experiments outlined in Green's article indicate the spring/summer polymorphism is determined by the tannin content of larval food. Eggs reared on tannin poor catkins develop into the spring (catkins) morph, those reared on tannin rich oak leaves develop into the summer (twig) morph. This is further verified using artificial diets of catkins mixed with leaves and catkins enriched with tannins. These diets induce young larvae to develop primarily into the summer (twig) morph. Temperature and photoperiod do not influence larval morphology in experimental rearings.

This work certainly gives us much to think about. As Greene points out, diet induced polymorphism could be more widespread than previously appreciated. Just imagine what conclusion you would reach if shown samples of spring and summer brood larvae of Nemoria arizonaria without knowledge of the full life cycle. Different species of course! If larval differences were not enough to convince you that two species are involved, nature has laid another trap for the unwary taxonomist. until as recently as the MONA checklist

spring and summer brood adults of this Nemoria were considered distinct species. The moths differ considerably in appearance and the male genitalia show differences in proportions of certain structures. It was Noel McFarland's rearing of summer brood moths (now form aemularia) from a spring brood female (form arizonaria) that convinced Douglas Ferguson that the two are seasonal morphs of one species. (See recent MONA fascicle on the Green Geometridae).

Certainly the effects of foodplant species, plant biochemistry, geography, and climate need to be taken into account when larval comparisons are made. In some situations, only rearings under controlled conditions will provide answers to complex life history problems.

I would like to invite anyone who has knowledge of similar environmentally induced larval polymorphisms to summarize them for this newsletter.

[Copies of the subject article are available on request - Editor]

**AN ABERRANT MALE Speyeria diana
(Nymphalidae) FROM KENTUCKY**

by Leroy C. Koehn

The Society of Kentucky Lepidopterists held a field meeting in the Big Black Mountain area of Harlan County, Kentucky on the weekend of July 13, 14 and 15, 1984. Collecting forays were made to the top of Black Mountain, along SR 160 from Appalachia, Virginia to Cumberland, Kentucky, and at Kingdom Come State Park.

The primary objective of the trip was Erora laeta; however, only two individuals of this species were seen. General collecting was excellent, however, and many species were common, including Speyeria diana. Wherever a stand of flowering common or purple milkweeds (Asclepias syriaca and

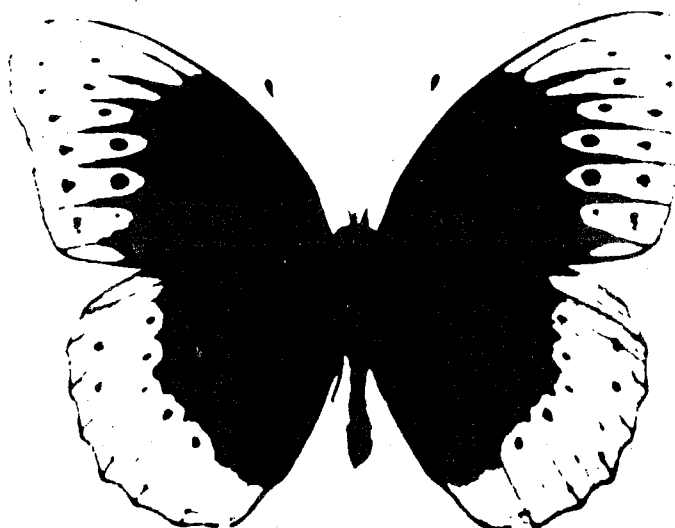
A. purpurascens) were located, several male and female S. diana could be found visiting the blooms. While collecting at a stand of milkweed in Kingdom Come State Park, I observed an aberrant male of S. diana visiting the flowers. With a quick sweep of the net, I collected the individual (figured below).

In place of the bright orange color was a pale whitish tan, and the dark brown was a very washed out milky brown. The butterfly appeared normal in every other way. It appeared to be several days old and was in fresh condition.

There have been many reports of aberrant individuals of Speyeria, (Clark, 1932, McCabe, 1977, Marrone, 1981) The author has collected several aberrant individuals of Speyeria cybele and S. aphrodite in the mountains of Virginia. This is the first known report of an aberrantly colored male Speyeria diana.

Showalter & Drees (1980) reported on a bilateral gynandromorphic S. diana. S. diana can be a difficult species to locate, an aberrant individual even more so.

I would like to thank Dr. Charles V. Covell, Jr. for photographing the specimen and reviewing the article.



Literature Cited

Clark, A. H., 1932. The Butterflies of the District of Columbia. Bull USNM. 157.

McCabe, T. L., 1977. Speyeria idalia. J. Res. Lepid. 16(1).

Marrone, G., 1981. News Lepid Soc. Jan/Feb 1981, No. 1.

Showalter, A. H., & Drees, B. M., Bilateral Bynandromorph Speyeria diana. Journal of the Lepidopterists' Society, Vol 34 No. 4.

SUGAR BAITING

by Don Ennis

Although I first took an interest in moths during 1981, it was not until the spring of 1987 that I began using light and bait traps to lure new species. Some days those lures really work, with scores of a single species showing up at once! As the cold temperatures set in, I decided to put the traps up for a couple months. My journal was devoid of January moth records for southwest Indiana.

During January and February, we gather maple syrup here, so I started tapping maple trees in late December. It turned out that January 1989 was the warmest since 1950, temperatures in the 30s at night, 60s during the days for a couple of weeks. One day I went to collect sap and was surprised to find five moths in the sap bag, with eight others yet to visit! To summarize, I found eighteen moths (4 species) in one day that otherwise would not have been noticed.

The sugar content of these trees is in the five to six percent (5-6%) range. While I had done some reading about nectar extraction from flowers, it never occurred to me that maple trees acted as a sugar source during winter for moths and other insects. The bags that I use to collect sap are designed to prevent

falling matter from mixing with the collected sap. Insects that are attracted by the sugar in the sap must crawl or fly horizontally through a metal corridor to reach the sap.

NOTICES

I. Field Trip

We plan a July 4th butterfly count at Horner Sanctuary, Brownsboro, KY, on Saturday, June 17, beginning at 9:30 AM and running through the day. Bring a picnic and friends. Those who wish may collect moths that night. Write or phone Covell for maps and details.

[Our planned trip to Red River Gorge was cancelled to avoid a conflict with the butterfly count. Details on a late summer/fall field trip will be in Volume 3 of the newsletter. Editor]

II. Endangered Species Act:

Paul Opler graciously provided a Fish and Wildlife Service "Notice of Review" that concerns 50 CFR 17, Endangered and Threatened Wildlife and Plants; Animal Notice of Review. I have included that portion of the notice which addresses "Insects, Order Lepidoptera". The purpose of this notice is to solicit comments as to whether the listed taxa should receive protection pursuant to the Endangered Species Act of 1973. A "Category" Key follows.

<u>Category</u>	<u>Status</u>
1	Service has substantial information on hand to support a proposal to list as endangered or threatened.
2	Conclusive data on biological vulnerability and threat are not currently available.
3A	Service has persuasive evidence of extinction.

BUTTERFLIES & MOTHS (Insects, Order Lepidoptera)

1A	Chestnut ermine moth	<i>Argyresthia castaneella</i>	Argyresthiidae	NH*, VT*
2	Green heterocrossan carposinid moth	<i>Heterocrossa (=Carposina) viridis</i>	Carposinidae	HI.
3B	Lora Aborn's moth	<i>Lorita abornana</i> (synonym of <i>L. scarificata</i>)	Cochylidae	CA.
1A	Chestnut casebearer moth	<i>Coleophora leucochrysell</i>	Coleophoridae	PA*
2	Lost ethmid moth	<i>Ethmia monachella</i>	Ethmiidae	CO.
2	Isoanthan looper moth	<i>Fletcherana isantha</i>	Geometridae	HI.
2	Geometrid moth, no common name	<i>Lytrosis permagnaria</i>	Geometridae	GA, KY, MO, TN, MS*
1A	Kona giant looper moth	<i>Scotorythra (=Acrodrepanis) megalophylla</i>	Geometridae	HI*
1A	Ko'olau giant looper moth	<i>Scotorythra (=Acrodrepanis) mesiotis</i>	Geometridae	HI*
1A	Hawaiian hopsed looper moth	<i>Scotorythra paratactis</i>	Geometridae	HI*
1A	'Ola' a peppered looper moth	<i>Tritocleis microphylla</i>	Geometridae	HI*
2*	Necker petiochrous leaf miner moth	<i>Petrochrous neckerensis</i>	Gracilariidae	HI.
2	Dun skipper	<i>Daphys vestris barbisoni</i>	Hesperiidae	CA.
2	Dakota skipper	<i>Hesperia dacotae</i>	Hesperiidae	MN, IA, SD, ND, IL*, Canada.
2	MacNeill sooty wing skipper	<i>Hesperopsis gracieleae</i>	Hesperiidae	AZ, CA, NV, UT.
2	Salt marsh skipper	<i>Panoquina errans (=panoquinoides e.)</i>	Hesperiidae	CA, Mexico.
2	Rare skipper	<i>Problema bulenta</i>	Hesperiidae	MO, VA, NC, SC, GA.
2	Wandering skipper	<i>Pseudocopaedes eurus eurus</i>	Hesperiidae	CA, NV?, AZ?, Mexico?.
2	Layuna Mountains skipper	<i>Pyrrus ruralis layuna</i>	Hesperiidae	CA.
2	Atala butterfly	<i>Dameus atala florida</i>	Lycaenidae	FL.
3C	Constock's blue butterfly	<i>Daphilotes (=Shijinaeoides) battoides constocki</i>	Lycaenidae	CA.
2	Baking Powder Flat blue butterfly	<i>Daphilotes battoides ssp.</i>	Lycaenidae	NV.
3C	Langston's blue butterfly	<i>Daphilotes (=Shijinaeoides) enoptes langstoni</i>	Lycaenidae	CA.
2	Mattoni's blue butterfly	<i>Daphilotes (=Shijinaeoides) rita mattoni</i>	Lycaenidae	NV.
1A	Xerces blue butterfly	<i>Glaucopsyche xerces</i>	Lycaenidae	CA*
2	Miami blue butterfly	<i>Hemiaris thomasi bethunebakeri</i>	Lycaenidae	FL.
1A	Fender's blue butterfly	<i>Icaricia icarioides fenderi</i>	Lycaenidae	OR.
2	Horro Bay blue butterfly	<i>Icaricia icarioides moroensis</i>	Lycaenidae	CA.
2	Pheres blue butterfly	<i>Icaricia icarioides pheres</i>	Lycaenidae	CA.
2	Boy elfin butterfly	<i>Incisalis (=Calliphrys) mitoura lanoraieensis</i>	Lycaenidae	ME, NY, Canada, NH*
3C	Doudoroff's elfin butterfly	<i>Incisalis (=Calliphrys) mitoura mossi doudoroffi</i>	Lycaenidae	CA.
3C	Wind's elfin butterfly	<i>Incisalis (=Calliphrys) mitoura mossi vindi</i>	Lycaenidae	CA.
2	San Gabriel Mountains elfin butterfly	<i>Incisalis (=Calliphrys) mitoura mossi hidalupe</i>	Lycaenidae	CA.
2	Karner blue butterfly	<i>Lycaeides melissa samuelis</i>	Lycaenidae	IN, MI, NH, NY, OH, VT, IL*, MA*, PA*
3C	Clouded tailed copper butterfly	<i>Lycaena arots subila</i>	Lycaenidae	HI.
2	Clayton's copper butterfly	<i>Lycaena dorcas claytoni</i>	Lycaenidae	ME.
2	Hermes copper butterfly	<i>Lycaena hermes</i>	Lycaenidae	CA, Mexico.
2	Sweadner's olive hairstreak butterfly	<i>Mitoura (=Calliphrys) gryneus sweadneri</i>	Lycaenidae	FL.
3C	Hessel's hairstreak butterfly	<i>Mitoura (=Calliphrys) hesseli</i>	Lycaenidae	GA, FL, MA, NC, NH, NJ, VA, MD*
2	Thorne's hairstreak butterfly	<i>Mitoura thornei</i>	Lycaenidae	CA.
2	Bobarts' blue butterfly	<i>Philotiella speciosa bobartorum</i>	Lycaenidae	CA.
2	San Diego blue butterfly	<i>Plebulina (=Plebejus) oenigdonis</i>	Lycaenidae	CA.
2	Mardon blue butterfly	<i>Plebejus mardon</i>	Lycaenidae	CA.
2	San Gabriel Mountains blue butterfly	<i>Plebejus saepiolus aureolus</i>	Lycaenidae	CA.
2	Spring Mountains blue butterfly	<i>Plebejus shasta charlestonensis</i>	Lycaenidae	NV.
2	Bartram's hairstreak butterfly	<i>Strymon acis bartrami</i>	Lycaenidae	FL.
3C	Hawaiian hairstreak butterfly	<i>Yapa blackburni</i>	Lycaenidae	HI.
3C	Kendall's yucca skipper butterfly	<i>Negathymus coloradensis kendalli</i>	Negathymidae	TX.
2	Maculated amfrea skipper butterfly	<i>Stallingsia maculosa</i>	Negathymidae	TX, Mexico.
1A	American chestnut nepticulid moth	<i>Ectodena castaneae</i>	Nepticulidae	MD*
1A	Phleopagan chestnut nepticulid moth	<i>Ectodena phleopaga</i>	Nepticulidae	MD*
2	Albarufan dagger moth	<i>Acronicta albarufa</i>	Noctuidae	MA, MD, NJ, Canada, CT*, GA*, NC*, NY*, PA*, OH*, CO*, NH*
2	Bucholz' dart moth	<i>Agrotis bucholzi</i>	Noctuidae	NJ.
1A	'Poko' noctuid moth	<i>Agrotis (=Spaelotis) erinigera</i>	Noctuidae	HI*
1A	Midway agrotis noctuid moth	<i>Agrotis (=Peridroma) fasciata</i>	Noctuidae	HI*
1A	Kerr's agrotis noctuid moth	<i>Agrotis kerri</i>	Noctuidae	HI*
1A	Laysan agrotis noctuid moth	<i>Agrotis (=Prodenia) laysanensis</i>	Noctuidae	HI*
1A	Procellaris agrotis noctuid moth	<i>Agrotis procellaris</i>	Noctuidae	HI*
2*	Smyth's apamea moth	<i>Apamea smythi</i>	Noctuidae	VA*, IL*
3C	Marbled underving moth	<i>Catocala marmorata</i>	Noctuidae	KY, NC, SC, IL*, IN*, MO*, NJ*, NY*, OH*, PA*, VA*, VT*, WV*
2	Precious underving moth	<i>Catocala pretiosa</i>	Noctuidae	NJ, NH*, CT*, MA*, MD?*, NY*, PA*, OH*, MD*, VA*, TN*
2	Hebard's noctuid moth	<i>Drythroecia hebardii</i>	Noctuidae	OH, NJ, VA*
1A	Confused helioverpan noctuid moth	<i>Helicoverpa confusa</i>	Noctuidae	HI*
1A	Minute helioverpan noctuid moth	<i>Helicoverpa minuta</i>	Noctuidae	HI*
1A	Laysan dropseed noctuid moth	<i>Hypena (=Mesamiptris) laysanensis</i>	Noctuidae	HI*
1A	Hilo hypenan noctuid moth	<i>Hypena (=Mesamiptris) newelli</i>	Noctuidae	HI*
1A	Lovegrass noctuid moth	<i>Hypena (=Mesamiptris) plagiotis</i>	Noctuidae	HI*
1A	Kaholamano noctuid moth	<i>Hypena (=Mesamiptris) senicula</i>	Noctuidae	HI*
2	Lesmer's noctuid moth	<i>Lithophane lemeri</i>	Noctuidae	NJ, NY, CT*, NC?, SC?

Note: Species in categories 1 and 2 are candidates; species in category 3 are not (see text for explanation of categories).

CATEGORY AND COMMON NAME	SCIENTIFIC NAME	FAMILY	HISTORIC RANGE
2* Noctuid moth, no common name	<i>Luperina trigona</i>	Noctuidae	TN*
2* Noctuid moth, no common name	<i>Papaipema aeneo</i>	Noctuidae	HI*, NY*, Canada*
2* Rattlesnake-master borer moth	<i>Papaipema erynii</i>	Noctuidae	IL*, IN*
2 Decodon borer moth	<i>Papaipema sulpharata</i>	Noctuidae	VA
2 Cercaric noctuid moth	<i>Pyreferra ceramatica</i>	Noctuidae	AL, FL, SC, TN, ALA*, CT*, MA*, ME*, NY*, Canada*
2 Noctuid moth, no common name	<i>Schinia indiana</i>	Noctuidae	HI, MN, WI, AR?*, IL*, IN*, NC?, NE?, TX?
2 Okfenokee zale moth	<i>Zale perculata</i>	Noctuidae	GA, FL*
2 Florida leafwing butterfly	<i>Anaea troglodyta floridaalis</i>	Nymphalidae	FL
1 Uncompahgre fritillary butterfly	<i>Boloria acrochona</i>	Nymphalidae	CO
3C Alamosa satyr butterfly	<i>Cercyonis meadi alamosa</i>	Nymphalidae	CO
3A Stenele wood nymph butterfly	<i>Cercyonis stenele stenele</i>	Nymphalidae	CA*
2 Oso Flaco patch butterfly	<i>Chlosyne leanira osoflaco</i>	Nymphalidae	CA
2 Morand's checkerspot butterfly	<i>Euphydryas anicia morandi</i>	Nymphalidae	NV
2 Mono checkerspot butterfly	<i>Euphydryas editha monoensis</i>	Nymphalidae	CA, NV
2 Wright's checkerspot butterfly	<i>Euphydryas editha quino</i> (≠ <i>E. wrightii</i>)	Nymphalidae	CA, Mexico
3C Osolete viceroys butterfly	<i>Limenitis archippus oboletus</i>	Nymphalidae	AZ, CA, NM, NV, Mexico
2 Mitchell satyr butterfly	<i>Neonympha (=Dasythyris) mitchelli</i>	Nymphalidae	IN, HI, NC, NJ, OR*, MD*?
3C Chryxus arctic butterfly	<i>Oeneis chryxus valerata</i>	Nymphalidae	VA
2 Tawny crescent butterfly	<i>Phyciodes batesi</i>	Nymphalidae	NC, VA, NY, HI, WI, MD, SD, MN, Canada, CA*, WV*, PA*, NJ*
3C Minute checkerspot butterfly	<i>Poladyris minuta minuta</i>	Nymphalidae	TX, NH
3C Smoky eyed brown butterfly	<i>Satyrodes eurypice fusca</i>	Nymphalidae	CO, IL, IA, NE
3C Unsilvered fritillary butterfly	<i>Speyeria adiastra adiastra</i>	Nymphalidae	CA
3A Atossa fritillary butterfly	<i>Speyeria adiastra stossa</i>	Nymphalidae	CA*
3C Clemence's fritillary butterfly	<i>Speyeria adiastra clemencei</i>	Nymphalidae	CA
2 Callippe silverspot butterfly	<i>Speyeria callippe callippe</i>	Nymphalidae	CA
3A Williams' silverspot butterfly	<i>Speyeria callippe extincta</i>	Nymphalidae	OR
2 Tehachapi Mountain silverspot butterfly	<i>Speyeria egleis tehachapina</i>	Nymphalidae	CA
3B Hydaspe fritillary butterfly	<i>Speyeria hydaspe conquista</i>	Nymphalidae	CO*, NM*
2 Regal fritillary butterfly	<i>Speyeria idalia</i>	Nymphalidae	MA, MD, VA, WV, PA, OH, IN, HI, IL, MD, MN, WI, IA, OK, KS, NE, SD, ND, CO, CT*, DE*, ME*, HI*, NC*, NH*, NJ*, NY*, RI*, Canada
3C Apache silverspot butterfly	<i>Speyeria nokomis apacheana</i>	Nymphalidae	CA, NV
2 Blue silverspot butterfly	<i>Speyeria nokomis caerulea</i>	Nymphalidae	AZ*, Mexico
3B Blueblack silverspot butterfly	<i>Speyeria nokomis nigrocaerulea</i>	Nymphalidae	AZ, NM
3C Mountain silverspot butterfly	<i>Speyeria nokomis nitocris</i>	Nymphalidae	AZ, NM, CO
2 Great basin silverspot butterfly	<i>Speyeria nokomis nokomis</i>	Nymphalidae	CO, UT
2 Behren's silverspot butterfly	<i>Speyeria zerene behrensii</i>	Nymphalidae	CA
2 Carole's silverspot butterfly	<i>Speyeria zerene carolae</i>	Nymphalidae	NV
2 Myrtle's silverspot butterfly	<i>Speyeria zerene myrtillae</i>	Nymphalidae	CA
2 Herne's eucomen moth	<i>Dicosma hernei</i>	Olethreutidae	CA
3C San Francisco tree lupine moth	<i>Grapholita edwardsiana</i>	Olethreutidae	CA
3A Strobben's parnassian butterfly	<i>Parnassius clodius strobbeni</i>	Papilionidae	CA*
2 Busck's gall moth	<i>Carolella busckiana</i>	Phalonidae	CA
3C Catalina orange tip butterfly	<i>Anthocharis cethura catalina</i>	Pieridae	CA
2 Andrew's marble butterfly	<i>Dulichia hyantis andrewsi</i>	Pieridae	CA
3C Helios yellow butterfly	<i>Durena dina helios</i>	Pieridae	PR, Caribbean
2 Daecle's pyralid moth	<i>Crambus daeckellus</i>	Pyralidae	NJ*
2* Holokai sedge bedyleptan moth	<i>Hedylepta anastrepta</i>	Pyralidae	HI*
2 Kohala Mountain sedge bedyleptan moth	<i>Hedylepta anastreptoides</i>	Pyralidae	HI
2* 'Ohe bedyleptan moth	<i>Hedylepta asaphoncha</i>	Pyralidae	HI*
3A Oahu swamp bedyleptan moth	<i>Hedylepta epicentra</i>	Pyralidae	HI*
2* Ola's banana bedyleptan moth	<i>Hedylepta eurypora</i>	Pyralidae	HI*
2* Fullaway's banana bedyleptan moth	<i>Hedylepta fullawayi</i>	Pyralidae	HI*
2* Giffard's 'ohe bedyleptan moth	<i>Hedylepta giffardi</i>	Pyralidae	HI*
2* Kilaeua pa'inuu bedyleptan moth	<i>Hedylepta iridias</i>	Pyralidae	HI*
3A Laysan bedyleptan moth	<i>Hedylepta laysanensis</i>	Pyralidae	HI*
2* Heyrick's banana bedyleptan moth	<i>Hedylepta meyricki</i>	Pyralidae	HI*
2* Hawaiian bean leafroller moth	<i>Hedylepta monogona</i>	Pyralidae	HI*
2* Maui banana bedyleptan moth	<i>Hedylepta musicola</i>	Pyralidae	HI*
2* Hawaiian lo'ulu bedyleptan moth	<i>Hedylepta pritchardii</i>	Pyralidae	HI*
3A Telegraphic bedyleptan moth	<i>Hedylepta telegrapha</i>	Pyralidae	HI*
2 Blue margaronian moth	<i>Maryaronia cyanonichla</i>	Pyralidae	HI
2 Green margaronian moth	<i>Maryaronia exaula</i>	Pyralidae	HI
2 'Oheupaka oobian moth	<i>Oecbia dryadopa</i>	Pyralidae	HI
2 Ford's sand dune moth	<i>Psammobotys fordii</i>	Pyralidae	CA
2 Chestnut clearing moth	<i>Synanthedon castaneae</i>	Sesiidae	VA*, PA*, SC*, MD*, MS*, NY*
2 Blanchard's sphinx moth	<i>Adhemarius blanchardorum</i>	Sphingidae	TX
3C Weist's sphinx moth	<i>Euproserpinus weisti</i>	Sphingidae	CO, NH, AZ, TX, MT
3A Blackburn's sphinx moth	<i>Handuca blackburni</i>	Sphingidae	HI*
2 Fabulous green sphinx of Kauai	<i>Tinostoma swaragditis</i>	Sphingidae	HI
3A Chestnut leaf miner moth	<i>Tischeria perplexa</i>	Tischeriidae	VA*
2 Stevens' tortricid moth	<i>Dorodes stevensi</i>	Tortricidae	CO
2 'Ohe'ohē leaf roller moth	<i>Spheterista checheana</i>	Tortricidae	HI
2 Greenbanded 'ohe'ohē leafroller moth	<i>Spheterista pterotropiana</i>	Tortricidae	HI
2 Wailupe leafroller moth	<i>Spheterista reynoldsiana</i>	Tortricidae	HI

- 3B Under current taxonomic understanding, these names do not represent taxa that meet the Endangered Species Act's definition of a species.
- 3C Taxa that are now considered to be more widespread and/or abundant than previously thought.

Copies of the complete notice may be obtained from either Paul Opler or the Xerces Society.

III. Xerces Society - 16th Annual Meeting

June 2-5, 1989
Woodland Altars, Peebles, Ohio
Approximate cost: \$57.00/person

Agenda includes business meeting, presentation of papers, and field trips

To attend: RSVP The Xerces Society, 10 SW Ash Street, Portland, OR 97204, (503) 222-2788 by May 1, 1989

REPORT FROM THE SECRETARY-TREASURER

C. V. Covell, Jr.

Kentucky collecting has been good at the Bearcamp Road site in Bullitt County, so far, although some days have been cool and cloudy to rainy. Covell took a male Celastrina ebenina on April 6. He and others on that date and through April 16 have recorded the following from that site: Erynnis brizo, E. juvenalis, Papilio glaucus (including females with striking mixed yellow and black scaling), P. glaucus (Apr. 16), Eurytides marcellus (Common since Apr. 6), Pieris virginianensis (modest numbers this year), Anthocharis midea (Common), Euchloe olympia (first record from this site, second from Bullitt Co., taken by Denise Hellman on April 12.), Incisalia henrici, Celastrina ladon, C. ebenina (most

common on Apr. 16, so far), Nymphalis antiopa, Polygonia interrogationis, P. comma, Vanessa cardui (Apr 12.), V. atalanta, and Phyciodes tharos. In nearby open areas, P. rapae, C. philodice, and C. eurytheme have been seen. Moths at Bearcamp have included Psychomorpha epimenis (Noctuidae), and geometrids Xanthorhoe ferrugata and Trichodezia albivittata, among others.

Loran Gibson and Don Wright report early moth collecting good in the Red River Gorge, Powell Co. (Tunnel Ridge), March 4: Eutolyte grandis, Psaphida thaxteriana, Copipanolis styracis; Xystocheilus rufago, Feralia jocosa, and F. major (all Noctuidae). On March 11, they returned there to record some of the same, plus Lithophane querquera and Eutolyte rolandi (Noctuidae) and Rhyacionia busckana and Sereda tautana (Tortricidae, Olethreutinae).

Some of you have not yet sent in your \$5 dues for 1989. Consult your mailing label to see if that is so, and if not, please remit to Covell as soon as possible.

Eric Metzler and Reed Watkins visited Louisville April 15-16 to train Covell and Kelly Thompson in recording Ohio Geometridae data on a DBASE program. While there, Eric identified some specimens in the University of Louisville collection, and found three species not on our list. They are Halisidota harrisii Welch (Arctiidae), Symmerista leucitys Franclemont and S. canicosta Franclemont. Some Olethreutinae sent to Dr. William E. Miller recently resulted in three new state records: Eucosma pediasios Miller, Cydia candana (Forbes), and Pelochrista womanana (Kearfott).

Identifications by Dr. Miller are done on a low-cost basis, the funds payable not to him but the University of Minnesota. I am looking for "angels" to provide some additional money to send more specimens to him for identification. The value of his help is great, and the cost reasonable. For

example, two slide preparations were \$12, and twenty-two identifications were \$88, with \$40 deducted because we loan material to him for his research. However, at this time, we need some money in the amount of about \$200 to send more material to him for identification.

SOCIETY MEMBER WINS
REGIONAL SCIENCE FAIR

M. L. McInnis

Mark Monroe has captured the top prize in the life sciences division of the Louisville Regional Science Fair. His project involved the discovery of a putative new species in the Erynnis persius complex. Mark will next compete in the International Science and Engineering Fair, May 8-14, in Pittsburgh.

Mark's project "What Are the Species Limitations In the Erynnis Persius Complex?" was based on his collecting activities in Eastern Kentucky. He has been collecting butterflies since 1983 and dissecting specimens for the past couple of years. Mark's fascination with biology comes naturally as his father, Dr. Burt Monroe, is a professor of biology at the University of Louisville (and a Ky. Leps. member).

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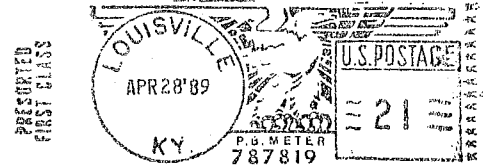
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