



NEWS

of the LEPIDOPTERISTS' SOCIETY

No. 6 Nov/Dec 1983

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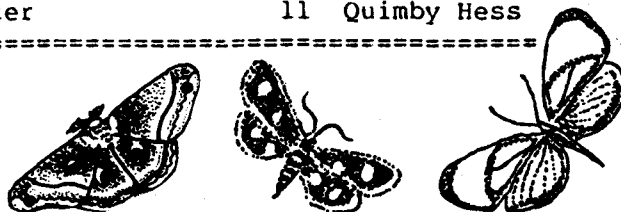
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WHAT'S WITH BUTTERFLIES (a guest editorial)



But why all the effort on butterflies when you could spend the time on something more fun or profitable? The question isn't put that bluntly but comments often imply it on those infrequent occasions when you mention the purpose of your next expedition to your "non-buggy" friends. What fascination does the hobby hold that it becomes a consuming passion that absorbs our leisure hours to the exclusion of most more mundane recreations? A patient wife, which I have, is a definite asset. True, little time is left for mischief which may explain why you seldom meet people more solid and congenial than your friends who attend your society gatherings. But why butterflies? Or moths?

We are likely to explain our interest to others as being a fine way to make a contribution to science, but this is often the excuse--not the reason. If the study of the European earwig, which pollutes and desecrates the flowers, fruits and vegetables in our gardens, received a tiny fraction of the attention which we lavish on our scaley-winged pets, we would have long ago found a biological control to the vast benefit of every gardener. But earwigs are not handsome insects; whoever admired one nicely mounted, or thrilled at finding an aberrant of the pest?

We like our Lepidoptera because they are attractive to us--and to others. The marvel of their metamorphosis and their varied and interesting lives invite our investigation. Their proper mounting and display demand meticulous attention to detail and painstaking skill and we enjoy the challenge. If we do it with care, we have something of beauty that shows off well and bespeaks our effort. And there are attendant satisfactions more meaningful to us than the acquired collection.

There is ever the thrill of discovery. New varieties (at least to us) may await us at the next patch of flowers. We may find them in places previously unreported. This year we may observe something that was not known before about one of them. They become a valid excuse to climb the peaks, visit the desert and explore the wilderness. They lure us to new and distant corners of our state, or area, and we feel a welcome on returning to familiar collecting haunts where few others have ventured. They entice us to know more intimately the plant world on which they pasture, the geology of their habitats and the life zones that determine their distribution so that our knowledge of nature is expanded far beyond just the information we learn about an insect order.

We relive the fun and memories of seasons past as we scan through field notes: A pine bordered willow bog in the Wind Rivers with new species everywhere; indra flirting just out of net reach along the cliffs circling a cirque in the Raft Rivers; Ranchman's Tiger-moths rising from the grass tufts along a tiny desert stream; the chance meeting of a collector friend from another state way back on a logging trail in the San Francisco Mtns.; the recollection of your teenage son leaping after a wildly darting

Hemileuca moth on Little Duncan Mtn. and snaring it with an agility you can only wish you still had. Vivid scenes to remember with joy and relive with appreciation. The sheer pleasure we derive from our Lepidopteran pastime is reason sufficient.

Joel M. Johnson, Payson, Utah

KARL JORDAN MEDAL AWARD 1983

The recipient of the 1983 Jordan Medal was unable to attend the annual meeting because of illness, so it was awarded in absentia to Elwood Curtin Zimmerman of Canberra, Australia. A taped message from him was played for those attending the meeting following the annual banquet.

Dr. Zimmerman was born in Spokane, Washington, on December 8, 1912. Education: University of California, B.Sc., 1936; University of London, D.I.C., Ph.D., 1956; University of London, D.Sc., 1980. His professional experience includes positions as a Fulbright Advanced Researcher, Europe, 1949-51, and NSF Fellow to England, 1954-56, 1958, 1966-67, 1969-73.

He is a member and has held office in numerous professional and honor societies including: Fellow Royal Entomological Society of London; Honorary Associate, British Museum (Nat. Hist.); Research Associate and Patron, California Academy of Sciences.

Dr. Zimmerman's work experience and scientific interests cover a broad spectrum. His first appointment as field entomologist at the Bernice P. Bishop Museum in Honolulu, Hawaii, in 1934 culminated in the position of Curator of Entomology, 1946-50. From 1973 until his retirement in December 1982, Dr. Zimmerman was a Senior Research Fellow with the Commonwealth Scientific and Industrial Research Organization (CSIRO), Canberra, Australia, and Curator of Weevils for the Australian National Research Collection. He is presently an Honorary Research Fellow at CSIRO and in the process of preparing an extensive, illustrated monographic series on the weevils of Australia.

With more than 225 research publications in the areas of entomology, zoogeography, and natural history, Dr. Zimmerman's contributions are well recognized within the field. His detailed studies of insects on various Pacific islands and especially the nine volume series on the Insects of Hawaii are particularly noteworthy. For this imposing series of works on the fauna of the Hawaiian Islands, and especially his taxonomic, ecological, and zoogeographic research on the micro- and macrolepidoptera of Hawaii, Dr. Elwood C. Zimmerman is recognized by the Committee and awarded the Karl Jordan Medal.

MORE ON PDB....

I shall try to respond as succinctly as possible to Noel McFarland's commentary (NEWS, May/June 1983) on my pesticide article in the Jan/Feb 1983 NEWS. The original article was written after consultation with a professional toxicologist, Dr. Edward Baker of the Harvard School of Public Health. The present comments are based on further information kindly supplied by him, and on further review of the collected material in Patty, F.A.: "Industrial Hygiene and Toxicology", 3rd Ed., 1981, Vol. 2B, the "bible" of toxicology.

I agree completely with a point made repeatedly by Mr. McFarland: the state of health of an individual's liver or other organ systems, resulting from current or past interaction with nutritional, infectious, chemical, or other influences, adverse or otherwise, can be a major determinant of that individual's reaction to exposure to a particular chemical. I will not attempt to analyze his cases of apparent adverse reaction. The retrospectroscope was not designed to ferret out facts.

Having personally cared for children with central nervous system toxicity (convulsions) from excessive respiratory exposure to camphor, and hemolytic anemia from light exposure to naphthalene, I was curious at the apparent lack of significant problems, in the pediatric

literature, from PDB, a common household substance. This impression is reinforced by the statement of Peterson and Liner (Bulletin of the National Clearing House of Poison Control Centers, July-Aug. 1975) that "PDB is the least toxic of active ingredients in moth repellents."

Mr. McFarland gave a clear example of one of the most useful points regarding PDB: that if the concentration of vapor in a room is at a level irritating to a person entering a room (i.e., not adapted to the odor), this is a warning that better ventilation is in order. The person he described had apparently not taken advantage of this clue. As mentioned before, the odor of PDB is obvious at 15-30 parts per million (ppm), irritating at 50-80 ppm, and possibly toxic for chronic inhalation at 75 ppm. In contrast, naphthalene is considered toxic in concentrations above 10 ppm, but its odor becomes apparent only at 25 ppm. There is no early warning.

Naphthalene has frequently been implicated in cataract formation in man. The single case of cataract reported involving PDB exposure had had concurrent exposure to several other agents, leaving the role of PDB uncertain. There are many statements in the literature re inability to produce cataracts with PDB, either experimentally or in industrial situations.

The statement re funding of toxicology research is most appropriate: one of the most reassuring articles on Vapona* was funded by its manufacturer.

I will happily switch to a better method of protecting a collection when it is defined. Sub-zero freezing is very effective but rather cumbersome for regular use. The practicality and safety of ultrasound is not yet verified--and what effect may it have on rearing activities being carried out nearby? And the better built box is still no cure for the contaminated specimen put into it.

For now, using adequate ventilation, I feel safer with PDB than I do traveling the highways.

Dave Winter
257 Common Street
Dedham, MA 02026

*Registered trademark

A NOTE ON CATOCALA COLLECTING

The 1983 baiting season for Catocala had been very good the last two weeks in July, then dropped off abruptly to poor. However, the following experience at that time may provide some evidence as to the efficacy of natural attractants vs. baits.

The season had gone from a high of 60 Catocala per night, caught by baiting 6 trees, making about 5 checks till midnight, to a low of 5 or 6 in the same period by early August. The bait used was a standard beer, sugar, stale fruit mixture.

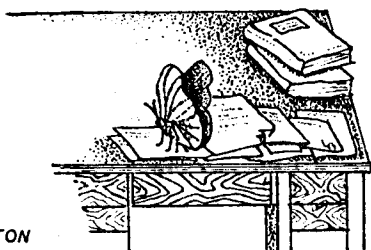
On August 13, I tried a spot in the Wisconsin Kettle Moraine State Forest near New Prospect, which contained good numbers of hickory, oak, and white birch. While awaiting darkness, I noticed several large moths flying about a very large oak in the open picnic area. I had not baited yet, so assumed they were attracted to the remains of the previous weeks' bait. I immediately put out bait on the large oak, 2 trees on the edge of the open areas and 11 more trees on a trail through the adjoining woods. I caught 3 C. ilia and 2 C. cerogama on the large oak before dark.

For the night, out of 19 Catocala kept and 8-10 worn or nicked individuals released or ignored, only 4 were not caught on the single large oak. Moreover, over half of these were not caught on the bait, but in cavities in the trunk of the oak. Some were under several examples of a large white shelf-fungus. Others were resting on the trunk and branches. Sap feeding beetles were also noticed in the cavities in the oak trunk. Species caught with numbers in parentheses were C. ilia (7), C. cerogama (4), C. cara (3), C. unizuga (3), C. ultronia, C. relecta (1).

George F. Holbach
Adell, Wisconsin

From The Editor's Desk

JUNE PRESTON



Some letters in this column seem to create waves, rather than ripples, but there are times when waves can turn up hidden treasures. I will continue to air the views of fellow lepidopterists. These views do not necessarily reflect my own opinions. All aspects of any question should be investigated before a meaningful decision can be made, so keep your letters coming, but do try to keep them short and to the point.

Dear June:

I was especially interested in the response to Dave Winter's article as voiced by Noel McFarland, since I also have been bothered by strange and mysterious maladies for several years, the two most serious of them diagnosed as atypical chronic ulcers and skin cancer. The skin cancer part was attributed to sun exposure, as I am classified by skin type as being of the fair-skinned, blue-eyed, Western European origin with the family tree roots firmly entrenched in Scotch-Irish and French descent. However, I have never been a sun-worshiper, in spite of living in Florida. I have done a lot of pondering recently with regard to the UV-exposure end of things, since I do quite a bit of moth collecting using various types of equipment such as the usual UV lights, MV lamps, and on occasion, even sun lamps. While discussing my problem with the dermatologist, his opinion was that although the given intensity from such lighting equipment would not approach that of normal sunlight in terms of UV exposure, certainly the level of risk was worth considering, and in fact, he recommended that I use a grade 15 sun screen on face, arms, and exposed areas when using the lights. This might be of interest to other readers. It should also be mentioned that eye damage definitely can result from prolonged close-range exposure to either MV or UV light and collectors should wear some sort of protective glasses and avoid staring directly at a light source of these types. Sun lamps have become increasingly popular among moth-collectors because of the long-range drawing capacity; these are the most potent of all in terms of potential eye damage, and should be used with extreme care and NEVER looked at directly from close range.

Re the Endangered Species bit, I will call to your attention the fact that with the 1973 Endangered Species Act, the Florida legislature acted with regard to extended protection beyond the Federal laws governing threatened and endangered species. Article 39-27.02 of the Rules of the Florida Game and Fish Commission very plainly states that it is absolutely illegal to take, possess, or molest ANY threatened or endangered species in the state of Florida. In the specific cases regarding Papilio aristodemus ponceanus and Papilio andraemon bonhotei, full protection is given to adults as well as to the immatures. Technically, the law affords these butterflies the same degree of protection as that for the bald eagle, but enforcement is lax. What it means is that if someone were actually caught in the process of collecting P. a. ponceanus, for example, all collecting gear, including the vehicle involved, would be impounded, and the collector involved would be subject to fine and imprisonment! A copy of the Florida Rules mentioned above can be obtained by writing to Mr. Don A. Wood, Endangered Species Coordinator, Florida Game and Fresh Water Fish Commission, 620 Meridian St.,

Tallahassee, Florida 32301. Also unknown to many people, including many who live here, is that the entire Florida keys system is regarded as a wildlife sanctuary by the state, and collecting can be done legally only with a permit, although it is unlikely you'd get hassled anywhere except on the Key Deer Preserve and John Pennecamp St. Park, which are the only two areas which are regularly patrolled... For the record, I've never collected Schaus myself, although I've seen them and had the opportunity.

Best Regards,
Dave Baggett
Lutz, Florida

MOURNING CLOAK

Deep maroon velvet robe,
border enriched with blue, shows
creamy petticoat.

--Harriet Reinhard--



Metamorphosis

ERNST J. DORNFELD.....

Ernst Dornfeld died on May 30, 1983 in Corvallis, Oregon at the age of 72. He retired as Chairman of the Department of Zoology at Oregon State University in 1976 after teaching at that institution since 1938. He had been a member of the Lepidopterists' Society for many years and in 1967 he co-hosted the Annual Meeting of the Society at Oregon State University. Since his arrival in Oregon in 1938 he became interested in the butterflies of the State and became one of its most experienced lepidopterists. His collection, which contains some 25,000 specimens, together with his library and files, has been bequeathed to the Department of Entomology at Oregon State University. He was the author of a number of publications on Oregon butterflies, including a Checklist with County Records in 1971 (Co-author - John Hinchliff) and culminating with his major work "The Butterflies of Oregon" published in 1980. His last paper (Co-author - Paul C. Hammond) describing a new subspecies of Speyeria eglesis was published in a recent Journal of the Lepidopterists' Society (Vol. 37, No. 2, p. 115-120, 1983).

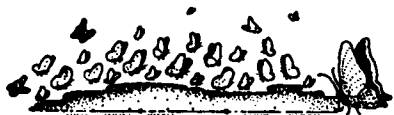
Information furnished by John Hinchliff

PERRY A. GLICK.....

Word has been received of the death of Perry Glick of Brownsville, Texas. He was a charter member of the Society.

JOHN CECIL LESOUF.....

The recent death of J. C. LeSouef of Blairgowrie, Victoria, Australia has been reported. His collection of some 15,000 specimens of butterflies, moths and beetles has been donated to the National Insect Collection in Canberra, Australia.



Forthcoming Meetings

THE 35TH ANNUAL MEETING

Fairview, Alberta, Canada will be the site of the 1984 Annual Meeting of the Lepidopterists' Society to be held July 5-8. Plan now to visit this Peace River Valley area next summer. More details will be given in future issues of the NEWS. The meeting coordinator is Ted Pike, Box 1231, Fairview, Alberta T0H 1L0, Canada.

Included among the activities will be a Microlepidoptera Workshop and 4 different field trips. Information on these activities is given below.

MICRO LEP WORKSHOP: Collecting and pinning of micros will be discussed. Please contact Jean-Francois Landry, Dept. of Entomology, U. of Alberta, Edmonton, Alberta T6G 2E3, CANADA if you are interested. This will help the planners to estimate the amount of equipment to be provided and to set a registration fee, so that each registrant can become a microlepidopterist.

FIELD TRIP 1: Leader Ted Pike, address above. Local Areas in the Peace River Valley. Habitat includes jackpine forests, tamarack bogs, aspen forests and grasslands. Species expected are S. liparops, H. titus, S. atlantis, C. interior, C. gigantea, and C. alexandria.

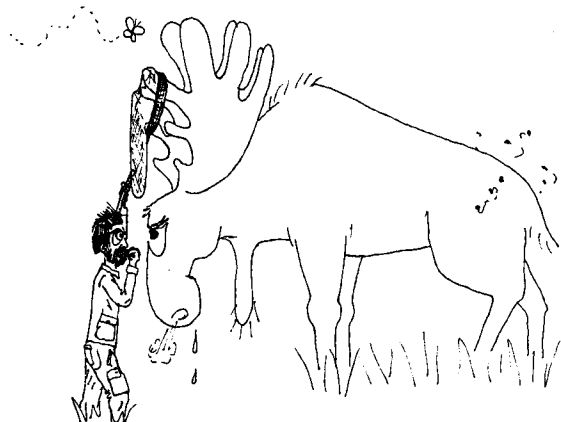
FIELD TRIP 2: Leader Ted Pike, address above. Pink Mtn and Points North. It is anticipated that Summit Lake, the Atlin area and Kluane Lake area will be visited. Habitat includes arctic and alpine tundra and relict grasslands. Species expected will be most arctic endemics. The relict grasslands have been poorly explored.

FIELD TRIP 3: Leader Gerry Hilchie, Dept. of Entomology, U. of Alberta, Edmonton, Alberta T6G 2E3 CANADA. Torrens Mtn Area, about 100 miles S. of Grande Prairie. Habitat includes alpine and subalpine areas and boreal and montane forests. Species expected are B. astarte, B. improba, C. nastes, L. cupreus and others. Fifty-one species have been recorded from the area. Moths are unexplored.

FIELD TRIP 4: Leader Felix Sperling, Dept. of Entomology, U. of Alberta, Edmonton, Alberta T6G 2E3 CANADA. Adams Lookout, Willmore Wilderness. Habitat similar to that of Field Trip 3. Much of the area appears to have been unglaciated during the last ice age. Species expected are E. magdalena (the only site for this species in Alberta), B. improba, B. napaea, C. nastes, L. cupreus, B. astarte.

Those persons interested in the field trips should contact the leaders well in advance of the meeting. Each trip has different requirements, and if contact is not made early, especially for trip 4, it will be extremely difficult to join in.

July 5 → 8 Fairview

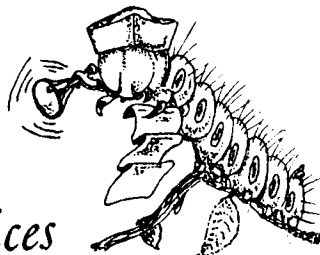


Research Notices

● I am preparing a complete reclassification of the Genus Cymothoe (Lepidoptera:Nymphalidae). I need to obtain specimens of this genus with full data, even if in poor condition. I would also like correspondence with any entomologists travelling to Africa. Write to Michael Beaurain, 41 Rue Des Solitaires 75019 Paris, France.

● Desire correspondence with Lepidopterists who have experience rearing species of the Sphingid genus Proserpinus. Would like to exchange information on the early stages of this genus. Members of Proserpinus include the Palearctic P. proserpina and the Nearctic P. gaurae, P. juanita, P. clarkiae, P. flavofasciata, P. vega, and P. terlooii. George Balogh, 7438 Apt. D, Grant Village Drive, St. Louis, Missouri 63123.

● I am a high school student in need of information on mimicry in Lepidoptera. Any info, slides, or prints will be helpful. This study will be used as my science fair project in the spring and also will be presented to the Miss. Jr. Academy of Science for competition. I also need information on how members kill their Lepidoptera after capture. I hope to find out the most common method used, and publish my findings in the JOURNAL to help collectors determine the best way of killing specimens. Please send information to: Matt Bouchard, 113 W. Adams St., Greenwood, MS 38930. Phone (601) 453-3715; collect calls accepted.



Notices

SEASON SUMMARY REMINDER

See NEWS 5, 1983, pg. 62 for Zones and Zone coordinators. Deadline for information reaching these coordinators is Jan. 15, 1984. When there is the necessity for mail to go outside the U.S. borders to reach a coordinator, allow additional time for the mail to get there. The format for the 1983 summary will be the same as for 1982, but some changes are forthcoming in 1984. Especially useful are food plant records, migratory records and new areas of capture or range extensions plus emergence times linked to the weather.

INSECT PHOTO SALON

The American Mosquito Control Association will hold its Annual Insect Photo Salon in conjunction with its annual meeting in Toronto, CANADA from March 18-22, 1984. The salon is sanctioned by the Photographic Society of America and will be conducted according to PSA standards. The competition is open to all photographers. Only 2x2 slides of insects and/or their arthropod allies can be submitted. Entries are limited to 4 slides per photographer. The entry fee is \$3.00 (U.S.). Entry forms and complete details can be obtained from: Dr. C. Lamar Meek, Chairman, AMCA Photo Salon, Dept. of Entomology, Louisiana State University, Baton Rouge, LA 70803.

JOURNAL UPDATE

The latest issue of the Journal of the Lepidopterists' Society, Vol. 37, No. 2, was mailed in September.

FINANCIAL SUMMARY, CALENDAR YEAR 1982....

1. Net Assets, end of 1982

Checking Account	3,063.25
Savings/Loan Accounts	38,105.09
Money Market Checking Account	6,503.83
Total	47,672.17

2. Allocation of Funds:

Life Member Reserve (@ \$140)	13,720.00
Commit to NEWS Expense to come	3,851.40
Commit to JOURNAL Exp. to come	12,321.85
Next year Income received early	10,451.00
Publication Fund	7,919.72
Illustration Fund	233.50
Subtotal	48,497.47
Operating Balance of Society	- 825.30
Total	47,672.17

3. EXPENSES for 1982

JOURNAL publication	24,511.99
NEWS publication	10,484.43
Supplies/Postage	372.08
Mailing List Maintenance	672.40
Meetings	49.09
Back Issue Handling	1,750.51
Bank charges/bad checks	181.45
Sale of List	195.03
Miscellaneous	10.00
Dues Notice	613.89
Total	38,840.87

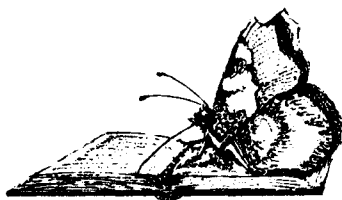
4. INCOME for 1982

Member dues	25,149.76
Institutional Subscribers	3,557.00
Air Mail	325.00
Page Charges	1,990.00
Back Issue sales	2,085.90
Sale of List	406.00
Undesignated/Miscellaneous	270.60
Interest	4,462.94
Life Member excess	800.00
Annual Meeting surplus	1,268.00
Total	40,315.20

For comparison, the 1981 figures may be found in the 1982 NEWS #4 on page 51.

Ron Leuschner, Treasurer

Books



Butterflies of South America by Bernard D'Abrera. 192 pages; 4x4 color throughout; size approx. 7½x4½ (same size as Collins' Field Guide series). An illustrated, full color handbook of all the families of butterflies of South and Central America. An invaluable and unique guide to the known butterfly species of the neotropics. No other work of this kind has existed before. Expected price £9.95 (U.K.), plus postage and packing. Send inquiries to the author/publisher at Hill House, Highview Rd., Ferny Creek, Vic. 3786, Australia.



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Buy Sell Exchange

Items submitted for inclusion in this section are dealt with in the manner set forth on page 10 of the Jan/Feb 1983 NEWS. Please note that in keeping with the guidelines of the Society, henceforth no mention of any species on any threatened or endangered species list will be accepted in these items. Items will be accepted from members only and will be printed only once unless entry in two (maximum) successive issues is requested. SASE calls for a self addressed stamped envelope.

The Society, as always, expects all notices to be offered in good faith and takes no responsibility for the integrity of any advertiser.

FOR SALE: Excellent butterflies from North America and around the world. Send for list. Specializing in Papilio and Morpho. Ken Thorne, Mill St., Delaware, Ontario N0L 1E0, CANADA, tel: (519) 652-5194.

FOR SALE: Most western U.S. butterflies, including a new ssp. of Boloria acrocne from Wyoming, B. selene sabulocollis, Callophrys johnsoni, Chlosyne clinatiensis, Colias pelidne skinneri, Papilio nitra (reared), etc. James Scott, 60 Estes St., Lakewood, CO 30226.

FOR SALE OR EXCHANGE: Live pupae of P. polyxenes asterius. Jaret C. Daniels, 12606 6½ Mile Road, Caledonia, Wisconsin 53108.

EXCHANGE: I have several species of Papilios and Saturnids left from a study during the summer. Anyone interested please write to me. If a museum or university needs the specimens they will be given upon request. Matt Bouchard, 113 W. Adams St., Greenwood, MS 38930.

FOR SALE OR EXCHANGE: 1 A-1 pair Euphydryas gillettii; P. phoebus smintheus ♂ (A-1); Plebejus aquilo ♂, other Canadian/Canadian Arctic material. Wanted: P. eversmani thor pair, will buy or exchange. Other Parnassius, especially Asian. David Lawrie, 906 Riverdale Ave. S.W., Calgary, Alberta T2S 0Y6, Canada.

EXCHANGE: Northeastern U.S.A. butterflies for other North American or European butterflies. All foreign collectors or dealers also welcome. I specialize in offering identified seasonal and individual forms, hybrids, and aberrations not normally obtainable. Also interested in trading data and field records with other Northeastern U.S.A. lepidopterists. 1983 field summary for Rhode Island available for those interested. Send S.A.S.E. for summary, please. Harry Pavulaan, 432 Washington St., #3, Coventry, Rhode Island 02816.

EXCHANGE ONLY: Pupae of Antheraea polyphemus, reared stock from 5000' in the Sierra Nevada, for pupae or quality papered specimens of A. p. oclea and A. p. olivacea from known localities only. Stephen Miller, 12466 Valley View Rd., Nevada City, CA 95959.

FOR SALE: Cocoons of A. polyphemus, A. luna, C. promethea, and H. cecropia. Send SASE to Daniel Bantz, 12524 7½ Mile Road, Caledonia, WI 53108 USA.

FOR SALE: Books on insects and other natural history subjects, including works by Holland, Comstock, Forbes, Scudder, Harris, Darwin and others. SASE to Dr. Jack N. Levy, Dept. Zoology, Arizona State University, Tempe, Arizona 85287, for price list.

WANTED: 1) How to Know the Butterflies of the Eastern United States, John Henry Comstock; 2) The Butterflies of the West Coast, William Greenwood Wright; 3) Butterflies of California, John Adams Comstock. State prices and condition. Leroy C. Koehn, 19121 Nottingham Rd., Apt. #203, Cleveland, Ohio 44110.

FOR SALE OR EXCHANGE: Repaired ♂ and ♀ Papilio homerus. Also "copy" of Rothschild & Jordan, A Revision of American Papilios and D'Almeida, Cataloga Dos Papilionidae Americanos. Please send offers with SASE. Also FOR SALE ♂ and ♀ Greta diaphane diaphane and G. coranthus lillige from Jamaica. Rick Rozycski, 5830 S. McVicker Ave., Chicago, Ill. 60638.

FOR SALE: Manitoba lepidoptera. Males only of Oeneis alberta alberta, Colias interior, B. titania grandis, Speyeria aphrodite manitoba, S. atlantis, S. cybele pseudocarpenteri. Also other species. Price list available. C. S. Quelch, 20 Highgate Rd, Toronto, Ontario M8X 2B2, Canada.

WANTED: Catocala ova, any species, will buy or trade. Can exchange papered cara, neogama, innubens, cerogama and a few relicta. Also desire your price list for papered Catocala ssp. John Jordison, 414 North 61st Street, Omaha, Nebraska 68132.

WANTED: Pupa of Heraclides cresphontes, Battus polydamas, Eurytides marcellus, Samia cynthia, Callosamia angulifera, Callosamia securifera. Alani Davis, P.O. Box 727, Gonzalez, Florida 32560.

FOR SALE: LEPIDOPTERA:HESPERIIDAE, Notes on Species-Group Names, by Charles A. Bridges, 1983. Catalogs 9039 names. Bibliography of 1640 items. Published by the Author: 290 pp. Price (post paid): \$37.50. Available from the Author, 502 W. Main St., Apt. 120, Urbana, ILL. 61801.

FOR SALE OR EXCHANGE: Wild collected Hyalophora cecropia cocoons. Discounts on orders of 100 or more. I prefer to exchange for saturniid material. Send offers with SASE to Steve Stone, 18102 East Oxford Drive, Aurora, Colorado 80013.

FOR TRADE: Sphinx franckii pupae for other Nearctic rarities that are needed for my collection. Write John M. Coffman, Rt. 1, Box 331, Timberville, VA 22853.

FOR SALE: Pupae of E. imperialis, Automeris io, C. angulifera, C. promethea, A. luna, A. polyphemus, Sphinx amyntor, Sphinx franckii, L. bombycoides, A. stigma, A. senatoria, D. rubicunda. Send SASE for list. John M. Coffman, address above.

FOR SALE: Entomological cabinet with glass topped drawers. SASE for details. R. Rahn, 3205 W. Rochelle Road, Irving, TX 75062.

FOR SALE: Butterflies of southern California; free list on request; all letters answered. Robert Wuttken, 2710 1/2 Highland Ave., Santa Monica, CA 90405.

FOR SALE: Surplus butterflies from Ontario, Manitoba, Alberta, Yukon and asst. butterflies from Jamaica. List on request. Norm Tremblay, Shadow Lake Rd. 9, Norland, Ont. K0M 2L0, Canada.

EXCHANGE: Material from Churchill, Manitoba collected during summer, 1983. Send SASE for list and details. R. Rahn, 3205 W. Rochelle Rd, Irving, TX 75062.

EXCHANGE: Several flawless pairs of Papilio indra indra. Want A1 pairs of Speyeria diana. I would also exchange for comparable Neotropical specimens (especially Heliconius). Wayne H. Whaley, 6B-349 Wymount Terr., Provo, UT 84604.

FOR SALE: Surplus butterflies from Yukon, Labrador, and most of Canada, including C. pelidne, P. kahli, dodi, brevicauda, Oeneis excubitor, Erebia n. sp., and the choicest Boloria, Erebia, Oeneis, etc. All guaranteed in A-1 condition. Jim Troubridge, RR#1, Cayuga, Ontario, N0A 1E0, Canada for list.

MEMBERS' COMMERCIAL NOTICES....

W. B. RICHFIELD, International Specimen Supply, P.O. Box 1066, Goleta, CA 93116, USA. Selling quality global Lepidoptera and other insects. For specimen price list subscription (12 issues), send either \$5.00 domestic fee or US \$10.00 foreign fee. Operations are now fully resumed. Thank you for your patience and support during completion of the initial phase of our expansional relocation.

ENTOMOLOGICAL CLEARING HOUSE INC., P.O. Box 778, Hales Corners, WI. 53130. Selling butterflies, moths, and other insects. Worldwide selection with emphasis on unusual and uncommon material for the specialist collector. If you have a collection or accumulation of material that you wish to dispose of, ECH can arrange to purchase your material, accept it on consignment, or trade other items for it. This service will allow you to turn unwanted material into cash or items of greater interest, while at the same time allowing ECH to give someone else the opportunity to obtain these species. Free price list sent on request.

MARIO ROJAS VILLEGAS Y SAMUEL PINEDO VALERA, Apartado 119, Tingo Maria, Peru (Hualaga Central). We sell A quality Morphos (specially Morpho didius) and Papilios, Rhopalocera, Pieridae, Preponas and Agrias in papered, mixed lots (not individuals). Also Beetles, other insects, ants, wasps, etc. Large orders welcome in April, May, June, October, November and December. We also receive visitors to make trips into the jungle for collecting butterflies and other insects, free of charge.

IANNI BUTTERFLY ENTERPRISES, P.O. Box 81171, Cleveland, Ohio, 44181, phone (216) 888-2310. Fine quality, named, world wide butterflies, especially of the neotropical regions, for sale. Listings from Brazil, Peru, Columbia, Bolivia, Argentina, Panama, Costa Rica, El Salvador, Venezuela, Mexico, and the Bahamas. Some rareties from Indonesia also available. Reasonable prices, full data. For latest list, contact Chuck Ianni or send \$5.00 for one year price list subscription. The following books are also for sale: The International Butterfly Book by Paul Smart. 275 pages, hard bound. Over 2,000 butterflies photographed full size. Encompasses evolution, habitats, history, classification, structure and ecology. Postpaid, \$32.45 check or Money Order. Beetles of the World by Gakken. 144 pages, hard bound. Illustrates over 600 worldwide beetles in full color with fine representation of major and most popular families. English index gives names of species and countries of origin. Text Japanese. Postpaid, \$35.00 check or Money Order.

B. L. GOOI, P. O. Box 9, Tanah Rata, Cameron Highlands, Malaysia: selling all species of Malaysian butterflies, beetles and moths, for collectors (with data); in quantities for educational aids and other uses. Offering aberrations, freaks, mosaics, gynandromorphs, and montane Lycaenids. Seeking franchise holders from all nations for my display cases of set butterflies/beetles/moths (in glass-fronted boxes), and papered items. Also exchange for morphos and large bird-eating spiders. All letters answered.

ADAM M. COTTON, 38/1 Soi Saeng Chang, Sukhumvit 40, Bangkok 10110, Thailand: selling papered butterflies, beetles, and other insects from Thailand, wholesale and retail. All butterflies with data, A1 quality. Can also provide A2 specimens of rarer ssp. Very low prices and wholesale discounts. Write for new free price list (old customers will automatically receive one).

ROBERT GOODDEN, Worldwide Butterflies and Lullingstone Silk Farm, Compton House, Nr. Sherborne, Dorset, England. WANTED TO BUY THIS FALL: Saturniidae, especially H. cecropia and other Hyalophora spp., cyntia advena, promethea, Automeris io. Offers of Sphingidae in smaller numbers also appreciated. Papilio pupae needed: phileor, troilus, cresphontes, turnus and others. For summer 1984 supplies of summer butterfly pupae, especially plexippus, antiopa and other Vanessids. Offers this fall would be appreciated to facilitate planning of new Butterfly House.

ENTOMOLOGICAL REPRINT SPECIALISTS, P.O. Box 77224, Dockweiler Station, Los Angeles, CA 90007, USA. Check list of the Lepidoptera of America north of Mexico by R. W. Hodges et al. finally published! Lists 11,283 species plus subspecies and synonyms. \$88.00 plus \$2.00 postage (add local sales tax in Calif.). Send long SASE (37¢) for new Lepidoptera book list.

TRANSWORLD BUTTERFLY COMPANY (LS), Apartado 6951, San Jose, Costa Rica, C. America. Own British Delivery office, own Butterfly breeding projects, and extensive collectors network. Over 250 European species, over 45 Morpho species, plus much more! If you collect butterflies write us! Mastercard welcome. Catalog \$1 or \$6 for Year's monthly mailings, discount offers.

BIOQUIP PRODUCTS, P.O. Box 61, Santa Monica, CA 90406, U.S.A., phone (213) 322-6636. Four new and important books published in 1983 are now distributed by BioQuip: 1) Check List of the Lepidoptera of America North of Mexico, prepared by principal authors of MONA series, 282 pages, catalog #9600, \$88.00; 2) Blue Butterflies of the Lycaenopsis Group, J. N. Eliot & A. Kawazoé, 269 pages, 18 plates (6 in color), 560 figures, British Museum (Natural History), catalog #9550, \$56.00; 3) The Genus Agrias, Paul E. Barselou, 96 pages plus 15 watercolor plates, catalog #9312, \$60.00; 4) The Genus Charaxes Ochs., Philippe Darge, 136 pages plus 43 color plates, catalog #9314, \$71.50. Please add \$2.00 shipping and handling for each title, and sales tax for shipments in California. More detailed descriptions of each title available on request.

CHRISTOPHER J. FARRELL, Apartado 360, Buga Valle, COLOMBIA. Offering, wholesale only, a large variety of Colombian Lepidoptera, Coleoptera and other insects, including many rare species. Mixed lots of assorted butterflies, Morpho species, Agrias, Papilios etc. Dynastes hercules/neptunus, Magasoma, Psalidognathus, Callipogon, Macrodonia, etc. Also mixed lots Cerambycidae, Buprestidae, Elateridae, Chrysomelidae, Carabidae, Scarabidae, Rutelidae etc. Material also available from Brasil and Peru. Please note that no price lists are available at the moment. Please state your needs/interests when writing. Anyone visiting Colombia would be welcome. I will help regards localities, etc. I would like contact with other collectors/suppliers in S. American countries who are interested in selling or exchanging material.

from: The Lepidopterists' Society

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DEADLINES: Material for the Jan/Feb issue should reach the NEWS EDITOR by Dec. 1 of the previous year, and that for the Mar/Apr issue by Feb 15, for the May/June issue by Apr 1 and for the July/Aug issue by May 1, the Sept/Oct issue by Aug 15 and the Nov/Dec issue by Oct 15. Reports for the SEASON SUMMARY must reach the ZONE COORDINATORS listed on the front cover no later than the 15th of January.

INFORMATION ABOUT THE SOCIETY.....

Membership in the Lepidopterists' Society is open to all persons interested in any aspect of Lepidopterology. Prospective members should send the TREASURER the full dues for the current year (\$18.00 US), together with mailing address and a note about areas of interest in the Lepidoptera; student membership (must be certified) \$12; sustaining membership \$25. Remittances must be in US dollars, payable to the Lepidopterists' Society. All members will receive the JOURNAL (published quarterly) and the NEWS (published bimonthly). A biennial membership list will comprise the last issue of the NEWS in even-numbered years.

Information on membership must be obtained from the TREASURER, Ron Leuschner, 1900 John St., Manhattan Beach, CA 90266, USA. Changes of address must be sent to the TREASURER, and only when the changes are permanent or long-term.

Other information about the Society may be obtained from the SECRETARY, Julian P. Donahue, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, CA 90007, USA. Please notify him of any additions or changes in areas of interest for publication in the membership list.

Manuscripts submitted for publication in the JOURNAL are to be sent to the JOURNAL EDITOR, Dr. Thomas D. Eichlin, JOURNAL of the Lepidopterists' Society, Insect Taxonomy Laboratory, 1220 N. Street, Sacramento, CA 95814, USA. See the inside back cover of a recent issue of the JOURNAL for editorial policies.

AVAILABLE PUBLICATIONS OF THE SOCIETY.....

CATALOGUE/CHECKLIST OF THE BUTTERFLIES OF AMERICA NORTH OF MEXICO (Memoir No. 2), Lee D. Miller & F. Martin Brown: includes references to original descriptions and location of type specimens. Members and subscribers, \$10 cloth, \$5 paper; non-members, \$17 cloth, \$8.50 paper, postpaid. Order from Ron Leuschner, Treasurer, 1900 John Street, Manhattan Beach, CA 90266, USA.

COMMEMORATIVE VOLUME, 1947-1972: a 25-year review of the Society's organization, personnel, and activities; biographical sketches; JOURNAL 25-year cumulative index by author, subject, and taxon; clothbound. Members and subscribers, \$6; non-members, \$10, postpaid. Order from Ron Leuschner, Treasurer, address above.

BACK ISSUES of the JOURNAL and of the NEWS of the Lepidopterists' Society: order from Ron Leuschner, Treasurer, address above. A list of the available issues and their cost, postpaid, is in the NEWS for Jan/Feb 1983, page 6.