



NEWS

of the LEPIDOPTERISTS' SOCIETY

EDITOR

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Presidential Profile

Ron Leuschner, the Society's current President, was born in Philadelphia, PA in 1930. His family moved to the Midwest when Ron was 4, so Oak Park, Illinois, just west of Chicago, is where Ron grew up, went to school, started to collect butterflies, and quite soon after—moths! Although he hates to admit it, the moth collecting thing has been going on for over 45 years now. His personal collection of 70,000 specimens fills every nook and cranny of his present home in Manhattan Beach, California. This brief biography will try to tell who the people were who were responsible for this life-long hobby and will also show how Ron's moth collecting has progressed since 1945.

Butterflies are the natural starting point for most young, would-be collectors. But the local Trailside Museum had two large display cases with many moths in addition to butterflies, and these fascinated Ron. Sphinx moths, Tiger moths, Catocala, Silk moths were all so beautiful, and all so unattainable. The big break came early in high school, when a fellow student mentioned that his grandfather was a moth



collector. This turned out to be Emil Beer, who showed Ron his excellent collection (specializing in annual-boring *Papaipema*) and also gave him some valuable collecting tips. Soon Ron bought a Coleman lantern, made sugar bait for Catocala, and started checking lights at night. He and two boy friends developed a regular bicycle route to check for moths on neon lights of the abundant local taverns. Real prizes were a Hog Sphinx, or a Honey Locust Moth.

Alex Wyatt was a friend of Emil Beer, and he took Ron on several trips to the Palos Hills to show how to set up a lantern and a sheet. Then came a chance for exotic places. Ron's father was a minister who was an editor and did missions promotion for the North American Baptists. This meant a lot of travel, and for most of the summers of 1946-47 Ron and his dad were visiting Colorado, Alberta, Washington, Oregon and California. Ron was netting every scaled wing in sight—including dozens of *Speyeria* on the Alberta prairies. He took moths on lights in Colorado and spent a week collecting in the Santa Cruz mountains in California. He had not heard of relaxing yet, so all specimens were mounted fresh. This meant a gigantic carton with trays to carry mounting boards and spread specimens; no problem those days when trains had lots of seat room.

Ron attended the U. of Illinois, graduating with an Electrical Engineering degree in 1952. Illinois also had a great Entomology Department, so he managed over 20 units of "electives" including taxonomy of all insect orders from V. Balduf (rose hip insects). A part-time job at the Illinois Natural History Survey through Milt Sanderson (Coleoptera) allowed sitting in on fascinating coffee-break discussions led by H. H. Ross (Trichoptera).

After college Ron chose the oil exploration business since it sounded like a good way to get to new collecting places. September was spent in Pecos, Texas, with a geophysical crew by day, collecting *Schinia*'s from lamp posts at night. Weekends were spent near Ft. Davis, tramping along Limpia Creek. But October brought cold weather and no moths, and November brought a call from the U.S. Army.

The Army began a chain of events that changed Ron's life—for the better. He felt that West Texas was not that great, and the Army (Transportation Corps) was almost a welcome change; especially when he was assigned to do geophysical exploration on the Greenland ice cap. This was only during the summer when the weather was nice (up to 40°F). Stanford Research Institute coordinated the effort, and when summer was over Ron was sent to Palo Alto, California for two months to help reduce the data at SRI. Enter a long time trading correspondent, Bill Bauer of Petaluma, who invited Ron on many collecting trips. Knowing now that moths flew in California all year, Ron opted for graduate school at U.C. Berkeley when he was released from the Army. This produced five months of intensive collecting with Bill Bauer and Steve Buckett, and enough studying to pass the engineering courses. After a

single semester at Berkeley, Ron received a fellowship from Hughes Aircraft to study at U.S.C. while working part time at Hughes. This brought him to southern California where he has remained until now. He completed his M.S. at U.S.C., got married to Jeanne, raised a family of three, and finally retired last year after 34 years in aerospace, 32 of these at Hughes.

The activities at the Los Angeles Natural History Museum, led in 1955 by Lloyd Martin, attracted Ron from the start. He was privileged to collect with Charlie Hill, Frank Sala, Chris Henne, Noel McFarland, Julian Donahue and many others. The Lorquin Society provided monthly meetings where amateurs were encouraged to share their experiences and localities. In June, 1959, a major event in moth collecting took place—the use of the black light. It took just one night, when Ron with his Coleman caught exactly one moth and watched his friends clean up swarms with their black lights, to show the way.

In 1966 Ron was in Florida for Surveyor spacecraft testing, heading for the swamps every night for moth collecting. Since he collected only Macros he sent all the Micros collected to Charles Kimball who was working on Florida lepidoptera. To Ron's surprise, Kimball returned all the Micros—identified. They sat on a shelf until the day Paul Opler and Jerry Powell came for a visit. They were excited and interested in these little specimens, and Ron got the fever. Now his collection contains all insects with scales on their wings.

Ron first heard of the Lepidopterist Society in 1948, just a year late to be a charter member. He has served as Editor of the NEWS (1973–76), Treasurer (1978–83), and Executive Vice-President (1989). He attended the second and third annual meetings in Chicago and Ottawa. Starting in 1956 he attended mainly Pacific Slope meetings. Since the 1977 Boulder, Colorado meeting he has enjoyed most of the annual meetings too, discovering that good collecting can always be found before and after each gathering, and has hardly missed an annual meeting since!

Our new President shares the ideas of the retiring President, Dr. Jacqueline Miller, that the Society must and can serve the needs of professional and amateur lepidopterists alike. He will strive to continue the programs and the publications of the Society as has been successfully done over the past 43 years.



NEW LEPIDOPTERISTS' SOCIETY AWARDS PROGRAM

Building upon the success of the pioneering international Karl Jordan Medal Award and the regional John Adams Comstock Award, the Executive Council of the Society authorized the establishment of a formal program of awards at the 1990 annual meeting held in Milwaukee. This program is intended to promote the fundamental objectives of the Society to advance the scientific knowledge and public appreciation of lepidoptera. Awards may be given to individuals in recognition of meritorious contributions to lepidopterology in all of its branches and may take the form of money, certificates, plaques etc. Funding of awards must be provided by third-party sponsors; general Society funds may not be used.

In addition to approving the establishment of the general awards program, the Executive Council also adopted a specific new award known as the Harry K. Clench Memorial Award to be given for outstanding student presentations at annual meetings of the Society. This award will consist of the approximate sum of \$250.00 in cash, together with a formal certificate of award suitable for framing. Student presentations of their work will be judged primarily on the substance and scholarly merit of original research, historical perspective and literature review, and secondarily on effectiveness of delivery and presentation.

The Clench Award is sponsored by the Carnegie

Museum of Natural History through its Section of Invertebrate Zoology as represented by staff member Dr. John E. Rawlins to whom inquiries about further details of the award should be addressed. This award honors the late Harry K. Clench, co-founder of the Lepidopterists' Society, long-time Associate Curator of Entomology at the Carnegie and long known, respected and esteemed for his unusually diverse interests in the Lepidoptera and for his personal qualities of warmth, sense of humor, enthusiasm, openness and accessibility to students and colleagues.

Persons interested in further details about the general awards program, including those who might wish to explore the possibility of proposing a new award, are encouraged to contact the undersigned for the Standing Committee on Awards and Endowments (SCAE).

J. Benjamin Ziegler, Chairman
64 Canoe Brook Parkway
Summit, New Jersey 07901-1434
Phone (908) 273-2288

A CHINESE/GERMAN ASSOCIATION FOR EXPLORING THE INSECT FAUNA OF CHINA

The aim of this newly formed Association of entomologists from the Academia Sinica in Beijing (Peking), China and from the Entomological Museum, Marktleuthen, German is to form an appreciation of and to accumulate information about the insect species of China in as short a time as possible. The natural ecological balances in China are being upset daily. As this occurs, the natural ecological niches and also food chains and webs are being disturbed. Due to these factors, many species now found in China are on the verge of, or are becoming extinct. Many of these species have yet to be discovered or noted by man. An important goal is the close working relationship between entomologists from China with those from Germany and other western countries. Thus it is important that any interested Entomologists who do not have a profit motive to their collecting activities, should plan to go to China to gather and assimilate as much information as possible. Publication may be in the Journal of Choice, but revisions of previous works should be published (in English) in Insects of China (editor Hou Tao-Qian). The Chinese entomologists will take care of publications in the Chinese language, and all papers should be published in both languages.

The Chinese/German Association will guarantee that Entomologists may move freely throughout China to collect and observe insects. The Entomologists who support this Chinese/German Association should expect to work on the family of insects that the Chinese are studying at that time. Any entomologists wishing to cooperate in this program would be responsible for their travel costs to and from China. The Chinese will arrange for food, lodging, transportation, etc. while inside their country and all activities will be under the sponsorship of the Academia Sinica. It should be understood that some of the collected insect specimens should remain in the collection of the Academia Sinica and that the Holotype of any new species must be deposited there. Anyone interested in assisting the Chinese in updating their entomological knowledge should contact Professor Hou Tao-Qian, Institute of Zoology, Academia Sinica, 7 Zhongguancun Lu, Beijing (53), China 100080 or Dr. Ulf Eitschberger, The Entomological Museum, Humboldtstrasse 13A, D-8688 Marktleuthen, Germany.

Ulf Eitschberger, Hou Tao-Qian,
Hans Mühle, Heinz Peks & Fu Yi-Ling

HIGH COUNTRY LEPIDOPTERISTS MEET

On September 14th and 15th, a group of about 30 lepidopterists had their initial meeting in Fort Collins, Colorado. Most of those in attendance were from Colorado, but South Dakota, Utah, and Wyoming were also represented. The meeting was hosted by Paul Opler and was sponsored by the Entomology Department at Colorado State University.

On Friday evening, September 14 there was a reception and slidefest at the Opler residence. On Saturday morning there was an open house at the Colorado State

University insect museum where attendees examined material or recounted the past season's experiences.

In the afternoon, meetings were held at the University Park Holiday Inn. Dr. Tom Holzer, chair of the entomology department at Colorado State University welcomed the group. Afternoon presentations were given by Dr. Cliff Ferris on collecting in the arctic, by Richard Peigler on higher classification of Saturniidae, by Steve Stone on Saturniidae of Colorado, and by Ray Stanford on the Rocky Mountain and Western Butterfly Atlas projects.

During a brief business meeting the group settled on the name "High Country Lepidopterists" to cover the plains states and Rocky Mountain area. It was the consensus that the group remain informal in structure and that annual meetings be held. It was decided that the 1991 meeting would be hosted by the University of Colorado at Boulder. Persons interested in attending should contact Dr. Deane Bowers, EPO Biology, University of Colorado, Boulder 80303.

A banquet at the Holiday Inn was followed by a presentation by Scott Ellis on the habitat and conservation needs of *Speyeria nokomis* in Unaweep Canyon, Colorado, and a door prize drawing. Prizes were contributed by the Wedge Foundation, Flora and Fauna Books, CSU Entomology Department, Xerces Society, Paul Opler, and Combined Scientific.

PEIGLER COLLECTION OF *CALLOSAMIA* DONATED TO DENVER MUSEUM OF NATURAL HISTORY

I recently donated my collection of *Callosamia* (Saturniidae) to the Denver Museum, because I need the cabinet space for other material, and with my permanent move westward (where these moths do not fly and their hostplants do not grow), I do not anticipate doing any further work on this genus. I want to document here the extent of this collection and the location of its permanent deposition for future workers who study this genus.

The collection is contained in 13 Cornell drawers. It consists of voucher material, including all hybrids, new hostplant records (in nature and captivity), and localities described or cited in the following publications:

1975, J. Lepid. Soc. 29: 188-191.

1976, J. Lepid. Soc. 30: 114-115.

1976, J. Lepid. Soc. 30: 184-187.

1977, J. Lepid. Soc. 31: 23-34.

1977, J. Georgia Ent. Soc. 12: 111-114.

1978, J. Lepid. Soc. 32: 191-197.

1981, Atla 7: 9-11.

1981, J. Res. Lepid. 19: 72-81.

1988, Nachr. Ent. Ver. Apollo (Frankfurt) 9: 91-100.

The series consists of 137 pinned specimens of *Callosamia promethea* from 19 states, 92 specimens of *C. angulifera* from 9 states, 51 specimens of *C. securifera* from 5 states. There are 176 pinned hybrids of numerous crosses. There are 32 vials of alcohol containing immatures, as well as some freeze-dried larvae on pins. Empty cocoons of all hybrids (which show remarkable trends to being intermediate between the parent species) plus an assortment of cocoons of the 3 pure species are pinned and preserved dry. Genitalic preparations in alcohol, 53 color slides mostly of larvae, and a notebook of field and lab notes on this genus were also deposited.

Richard S. Peigler
Department of Zoology
Denver Museum of Natural History

A COLLECTING ADVENTURE IN THE GEORGE WASHINGTON NATIONAL FOREST

The year 1990 was a banner one for the Diana fritillary, in the Bath County, Virginia, area of the George Washington National Forest. We made two collecting trips to that area, the first over the June 22-24 weekend and the second during the July 13-15 time frame. Some males were in evidence on our first trip, but not in numbers that one might expect for those particular dates. Furthermore, substantial stands of milkweed which would normally have been in flower at that time had not yet matured. Evidence

suggested, therefore, that a large number of *Speyeria diana* were forthcoming and that we had arrived just a bit ahead of the emergence peak.

After returning home from trip number one, it was surmised that the emergence cycle for the year was a week or two behind, possibly because of cool and rainy weather experienced over the previous two months. Furthermore, it is well known that Diana females emerge two to three weeks later than the males. It was, therefore, decided that a second trip to the area a few weeks later would be appropriate. In contrast to the weather experienced during June 22-24, which was generally pleasant, July 13-15 proved to be a wet weekend. I am sure that most collectors would have been discouraged under such circumstances. However, it should be remembered that *Speyeria diana*, being a woodland species, can, in contrast to other butterflies, be collected under such adverse circumstances.

We arrived in the area late in the afternoon on Friday, July 13 (certainly an ill omen for those with a superstitious proclivity). Indeed, the weather was inclement, to say the least, and we even learned that there had been a bad storm the previous evening. Our collecting work started on Saturday, July 14, under gloomy circumstances indeed: A 100 PERCENT PROBABILITY OF RAIN! The dauntless, avid lepidopterist is, however, not deterred by such natural phenomena, especially when he is tracking an interesting butterfly such as *S. diana*. In fact, Saturday was not a consistently rainy day, there being one or two brief periods of sunshine. It transpired that both male and female Diana fritillaries were present in good numbers. Of particular interest was the remarkable fact that the males were generally in excellent condition, confirming the hypothesis of later development alluded to earlier.

Sunday, July 15 proved to be a somewhat better day weather-wise, but nevertheless a marginal one. On that day Joy decided to photograph several of the males and females perched on the milkweed, which was abundant at that time. Later I was most fortunate to observe a mating pair of *dianas* on a black locust tree, and Joy snapped several pictures of the two before the beautiful blue female absconded carrying the male with her, undoubtedly to another perch in the woods. For the interest of readers of this newsletter, a picture of this mating pair is provided herewith.



In contrast to statements made in some of the older literature (e.g., in Klots' well-known field guide), *dianas* in the George Washington National Forest are frequent milkweed flower visitors and are, in that situation, relatively easy to collect. In the interest of preservation, we restricted our captures to four males and four females, concentrating an equal portion of our time on the photographing of these beautiful insects.

Because of the adverse weather, we decided to extend our visit to this locality by one more day, having heard that the weather was to be "ideal" on Monday, July 16. On that day males were still observed, but no females were noted. The moral of this story may be that one should arrange to observe *Speyeria diana* on overcast days, especially if one

wants to see females.

On the other hand, another interesting butterfly was observed on Monday, coursing the forest roads and occasionally alighting thereon, namely, *Polygonia progne*, the gray comma. This angewing is a well known resident of the area, but it usually appears in the latter part of June, not in the middle of July. Roughly a half dozen individuals were observed within a distance of five to ten miles.

Based on our sightings, the *diana* population in Bath County is a strong, stable one. It would be interesting if similar stable populations could be established in the East for her sister species, *Speyeria idalia*.

Edgar and Joy Cohen
Columbia, Maryland

A LEPIDOPTERIST IN THE NEWS

A news item in the Rocky Mountain News of Mon., Oct. 15, 1990 by the News Science Writer, Joseph B. Verrengia tells about Society member Dr. Lowell Harris and his butterfly collecting hobby which has led him into a battle to help preserve the rain forests from their terrible destruction. Dr. Harris, a Colorado obstetrician, is pictured with a few of his display drawers of spread butterflies. He recently travelled to Brazil on a collecting expedition. After his experiences there he has become an avid environmentalist. He inadvertently ran into the rain forest destruction caused by bull dozers attempting to clear the land for cattle pasture. He spent hours in the muddy morass salvaging rare orchids and other tropical flowers. These prize plant specimens now grow in the protected yards of some of the Brazilian researchers who are also involved in the fight to preserve the tremendous biodiversity of the rain forests. Harris is convinced that his love affair with butterflies can be indulged only if the special natural niches where they flourish can be saved. "It's a war between development and the preservation of natural resources," he says. "It is the habitats that are important to save."

For the past decade, Harris has closed his obstetrics practice for two months every year and he and his family have travelled to exotic places in search of butterflies. He has collected throughout South America, Central America, New Guinea and Southeast Asia as well as in the United States. They usually travel in expeditions lead by university researchers, going to places that civilization has touched but which are off the beaten path so that tourists don't go there. Harris began chasing butterflies as a child and his hobby grew into a globetrotting passion about 10 years ago when he joined a Peruvian lepidoptera collecting expedition. The area visited was a heavily guarded cocaine processing center. Harris remarked that "they are used to seeing people with collecting nets. They sort of enjoyed us."

Harris has his choicest specimens pinned in 265 glass topped display drawers. The rest of his 40,000 specimens are stored in a pair of refrigerators or boxed up in closets. He has donated another 100,000 or more to museums, universities or other collectors. He also preserves male testes for chromosome analysis by biologists at the University of Florida so that genetic relationships and species variations can be determined.

From The Editor's Desk

June Preston



As the new year greets us, I begin my ninth and last year as editor of the NEWS. I think it is time I gave up the editorship to someone with fresh ideas. Nine years is a long time to be concerned with deadlines, rewrites, proofreading, etc., and I'm looking forward to having more time to work on the butterfly collection and to get caught up with the backlog of specimens to be spread that have been accumulating all these years. The technology involved in putting out a newsletter has made terrific advancements in

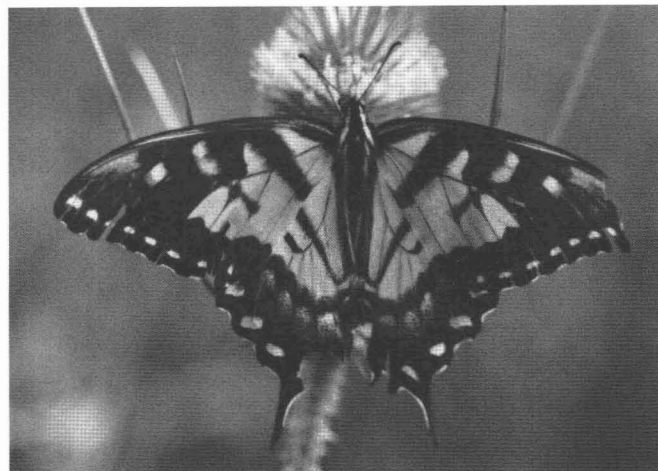
the past eight years so hopefully the new editor will not find the task to be a thankless chore, but instead a rewarding and enlightening one. Since it is you, the members, who provide the bulk of the material for the NEWS, it can be only as good as your contributions make it. In the future we hope to include non-refereed articles of timely interest as well as the items of Miscellany, Various Notices, New Member and Address change lists, Metamorphosis, Market Place ads, Books, Meeting coverage, and Lepidopterists' Lexicon. The NEWS is always willing to print good black and white photos also, and welcomes them as adjuncts to items submitted for printing.

Several very interesting letters crossed my desk this fall which deserve to be shared. Comments can be directed either to the NEWS editor or to the letter writers. As always, any opinions expressed are solely those of the authors and do not in any way reflect any policies of the Lepidopterists' Society.

Dear June,

The timing of your letter and the NEWS is a bit uncanny. I have been corresponding with another member, Dr. Irving Finkelstein, regarding an unusual *P. glaucus* female I encountered this summer. After he recovered from the shock of realizing that I had actually caught it, coaxed it to lay one egg, and then photographed it and let it go, all without my realizing that I possibly had a very rare specimen on my hands, he suggested that I send you a copy of one of the photos, as he thought it might be of interest to other members.

As you can see from the photo, she does not appear to be an intergrade in the conventional way (she is also quite tatty!). I don't know why it never occurred to me that I should keep the specimen—I, naively so it seems, assumed that since we had regular and dark form females in the area, that it made perfect sense for some specimens to end up somewhere in between. I guess it never occurred to me that it was one in a million that did! Ah well.... She had been spotted flying about the "14-acre field" for at least a week, and there is plenty of wild cherry around.... Believe me, I'll be watching the local tigers like a hawk next season! (The offspring of her egg broke diapause last week—a normal yellow form female.)



One other comment I'd like to pass along to perhaps share with others. This is without a doubt the year of the Red Admiral around here! They were easily as common as Cabbage Whites! From what I read in the Ohio Lep's NEWS, this seemed to be the case there as well. I wonder just how far this occurred? And how often? Is such a phenomena cyclical? And next year, we probably will be hard pressed to find even one! Sincerely,

Monica Miller
Bethel Park, PA

Dear Editor,

This past summer, June 24, 1990, when out in the Badlands of North Dakota north of Marmarth, I came upon a brood of last instar caterpillars of *Hemileuca hera hera*. They had left the close grouped arrangement of the earlier

instars, and were scattered about one or two apiece on neighboring silvery sage plants (*Artimisea cana*).

Wishing to rear a few of these to learn more of their life histories and to replenish my supply of papered specimens, I gathered a dozen of these caterpillars to take home. The interesting thing was, one of the caterpillars had a dead ant firmly attached to one of its spines. When I tried to pull the ant off it was so firmly attached it could not have been pulled off without tearing off the caterpillar's spine to which it was attached.

Without thinking that I may have been destroying an interesting record, I pinched off the head of the dead ant, leaving it attached to the caterpillar, and discarded the ant's body. Then I started wondering, did the poison from the caterpillar's spine kill the ant when the ant attacked the caterpillar, or did the ant just happen to die while attacking the caterpillar?

When the caterpillar pupated on June 30, 1990, I retained the larval skin with the ant head still attached. The ant was one of the larger species we have here, but I have not tried to have it identified, as I have only the head.

Jim Oberfoell
Bowman, ND

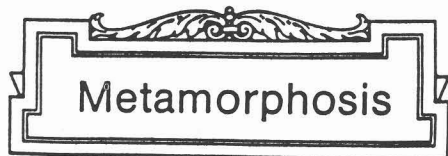
Dear June:

I would like to recommend to the readers of the NEWS what I found to be a delightful little (231 pp) book. It is available from the California Academy of Sciences as MYIA Vol. 4 (1989), by Edward Luther Kessel and is entitled Autobiographical Anecdotes (I Was A Preacher's Kid). Also included are a tribute to the author written by Paul H. Arnaud, Jr. and a listing of the taxa proposed by Dr. Kessel.

Dr. Kessel, a dipterist, retired from a 45-year academic career at the University of San Francisco. He was also editor of Technical Papers and Associate Curator in Entomology at the California Academy of Sciences. Dr. Kessel's parents were missionaries in South Africa from 1908-1916, and this is where the author spent his middle childhood. It was there that his interest in entomology developed. What makes the book interesting is the insight that the reader receives about the development of a scientist. It also presents a picture of South Africa long forgotten because of current turmoil in that country. The author learned Zulu and interacted extensively with the native children in his own age group. The volume is divided into four parts: "South African Years," "Transition: Africa to America," "College, University and Career Years," "Concluding Anecdote." Within each part, are included anecdotal vignettes, 47 in all, crafted in a light and humorous style.

The book is in hard cover, and may be ordered from the Department of Entomology, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. The cost (including postage and packing) is \$12.00 (USA outside of California and US Possessions), \$12.65 in California (includes CA sales tax), and \$13.50 (Canada and overseas). Sincerely yours,

Cliff Ferris
Laramie, WY



J. F. GATES CLARKE.....

Dr. J. F. Gates Clarke passed away on Monday, Sept 17, 1990. He had been a Society member since 1966. In 1979 he was awarded the Karl Jordan Medal for his work on the Meyrick types at the British Museum (Natural History). He was elected as an Honorary Life Member of the Society in January, 1985. On September 21, 1990 the following obituary appeared in *The New York Times*, written by Joan Cook.

"J. F. Gates Clarke, an entomologist and research associate at the Smithsonian Institution's National Museum

of Natural History, died Monday at his home in Hyattsville, Md. He was 85 years old. A Smithsonian spokesman said he died of heart failure.

"Dr. Clarke, an authority on moths, joined the Smithsonian staff as a curator, and was instrumental in developing a collection of more than 30 million insects for the museum's department of entomology.

"He was chairman of the department from 1963 to 1965 and senior entomologist from 1965 to 1975. From 1976 until his death he worked as a research associate at the museum.

"His investigations of how moths and other insects colonize island chains in the Pacific Ocean took him on voyages to Borneo, Ceylon, Tahiti and the Marquesa Islands. The specimens he brought back formed one of the world's finest collections of Pacific moths.

"I love the Pacific Islands," he once said. "I wish I had another 100 years to collect there. There are 7,000 islands in the Pacific, and even if I visited one a day it would take me more than 19 years to get to all of them."

"Dr. Clarke, who was born in Victoria, British Columbia, was a graduate of Washington State University, earning a pharmaceutical chemist degree in 1926, a bachelor's degree in zoology in 1930 and a master's degree in entomology in 1931. He taught biology at Washington State from 1931 to 1935.

"After starting work on his doctorate at Cornell University in 1935 he joined the Department of Agriculture in Washington as an entomologist.

"He wrote more than 100 research papers and a popular illustrated guide, "A Golden Book of Butterflies," published by Golden Press in 1963. His last major publication was a study of moths of the Marquesa Islands in 1986.

"He is survived by his wife, the former Nancy duPre; two children from a former marriage: a son, J. F. Gates Clarke Jr. of Wilmington, Del., and a daughter, Carol Lewis of Frederick, Md.; five grandchildren, and a great-grandson."

VLADIMIR POLACEK.....

Word has been received of the death of Vladimir Polacek on January 19, 1990 in Brandys nad Labem, Czechoslovakia. He had been a Society member since 1962.

Notices



STUDIES ON VARIATION IN BRITISH LEPIDOPTERA THE COCKAYNE RESEARCH FELLOWSHIP

The Cockayne Trust, founded by E. A. Cockayne in 1951, was set up for the promotion, encouragement and study of entomology by making improvements to and furnishing information about the Rothschild-Cockayne-Kettlewell Collection. The 'RCK', devoted solely to the study of British Lepidoptera, is part of the UK National Collection of Insects and is maintained by The Natural History Museum at South Kensington, London. Within the spirit of the original Cockayne Trust Deed, the Trustees have now set up the Cockayne Research Fellowship, a separate charity linked to and supported by the Cockayne Trust, to stimulate new work on British Lepidoptera.

Applications are invited to The Cockayne Research Fellowship for awards to support original research on variation of British Lepidoptera. Awards are limited to a maximum of £1000 per year and, depending on progress, may be renewable annually for a maximum of 3 years. Applications are welcome from amateur and professional lepidopterists alike.

Projects must concern original research on variation (genetic, phenetic, taxonomic, geographical, or phenological) affecting one or more species of Lepidoptera within the British Isles. Successful applications are likely to involve proposals to work on early stages in addition to adults, and at least some breeding or experimental investigations. Projects should, at least in part, be based on, re-interpret, or otherwise take into account information already stored in the RCK collection, and will be expected to add new material to it. A yearly report will be required by the Trustees, on which any consideration of renewal will also depend. At the end of the project (maximum of three years), a final report will be required and publication of the results will be expected, if appropriate. A further grant could be requested to assist with publication, if required.

Anyone interested should obtain an application form by writing to the Trustees of The Cockayne Research Fellowship, c/o the Keeper of Entomology, The Natural History Museum, Cromwell Road, London SW7 5BD, UK. The Trustees of the Fellowship have sole responsibility for all matters connected with disbursement of Fellowship funds, and their decisions on all matters, including choice of candidates, levels of award and renewals, will be final. Applications should be received by 1st March each year.

Donations, or other contributions, to either the Cockayne Trust or The Cockayne Research Fellowship are also invited; enquiries about contributions should be directed to the Keeper of Entomology, at the above address.

SOCIETY T-SHIRTS AVAILABLE

The new Lepidopterists' Society logo T-shirts are now available. They can be ordered from Julian Donahue, Natural History Museum of Los Angeles County, 900 Exposition Blvd., Los Angeles, California 90007-4057. Write for sizes and prices.

BUGGY TOYS FOR SALE

Don't be a humbug! We have a unique line of insect toys for girls and boys. Items for all ages: books, resource guides, handbooks, project and collection aides, educational games and puzzles, insect puppets and stuffed animals, insect gliders, butterfly jewelry and crafts, and much more. Free catalogue. Young Entomologists' Society, 1915 Peggy Place, Lansing, Michigan 48910-2553.

ICZN

The following application was published on September 28, 1990 in Vol. 47, Part 3 of the Bulletin of Zoological Nomenclature. Comment or advice on this application is invited for publication in the Bulletin and should be sent to the Executive Secretary, I.C.Z.N., c/o The Natural History Museum, Cromwell Road, London SW7 5BD, U.K.

Case No.

2720 Dalla Mabille, 1904 (Insecta, Lepidoptera): proposed conservation

Stephen R. Steinhauser, Lee D. Miller & Jacqueline Y. Miller, Allyn Museum of Entomology, The Florida Museum of Natural History, 3621 Bay Shore Road, Sarasota, Florida 34234, USA.

Charles A. Bridges, 502 West Main Street, Apt 308, Urbana, Illinois 61801, USA.

Abstract. The purpose of this application is to conserve the name Dalla Mabille, 1904 for a hesperiid (skipper) butterfly genus by suppression of the seldom used senior subjective synonym Eumesia Felder & Felder, [1867].

The following opinion was published on September 28, 1990 in Vol. 47, Part 3 of the Bulletin of Zoological Nomenclature.

Opinion

1617 Rosema Walker, 1855 (Insecta, Lepidoptera): given precedence over Zelica Hübner [1825] and Rhogalia Hübner [1825].

USSR EXCHANGE OPPORTUNITY

Recently I received a letter from Sergei Gundorov, from Saratov, in the Russian S. S. R. He collects lepidoptera and is interested in exchanging USSR specimens for material from the western hemisphere and elsewhere. He sent a list of the many species of butterflies (many parnassians), and some moths, which he has for exchange, as well as his desiderata list, both too long to reproduce here (I can send you a copy in return for your SASE).

He looks forward to seeing lists of available material from any interested collectors. It would probably be wise to learn from him any necessary details on shipping material into the USSR.

While Mr. Gundorov is not (yet!) a member, it seems reasonable to publish this notice in an effort to increase east-west communication among lepidopterists. His address is: Sergei Gundorov, Plant Protection Department, The Saratov Agricultural Institute, Revolution Square 1, USSR, 410601, Saratov.

Dave Winter, Secretary

SLIDE PROGRAMS AVAILABLE

Society member Tor Hansen has put together 4 color slide programs that are suitable for schools, garden clubs and others interested in lepidoptera and/or ecology. There is a 45 minute program on Monarch Butterfly Ecology, one on Butterfly Gardening on Cape Cod, one on the Ecology of the Cape Cod Cecropia Silk Moth and one on Costa Rican Rain Forest Ecology. Interested parties should contact Mr. Hansen at Box 775, N. Truro, Mass 02652, U.S.A. Phone (508) 487-9410.

THE POSTER PROJECT

In the spring of 1990 we began sending color-illustrated posters to nature centers, museums, and science departments in an effort to sign up new members. The results have been encouraging, and we plan an increased effort this year.

The names of the 50 or more organizations that we contacted were supplied by you, our members. While we will continue to supply those organizations with membership brochures, we need more names to make the project a real success.

Please take a minute to write or phone to me the names of nature centers and museums in your area, including the name of a specific contact person, if possible. Our growth depends upon your help.

Dave Winter, Secretary
257 Common St., Dedham, MA 02026
Phone (617) 326-2634

FRIENDS OF THE NATURAL HISTORY MUSEUM

On August 28, 1990 a notice was sent out to many users of the Natural History Museum in London (often referred to as the British Museum) and to other interested persons, detailing the plans to form an organization to be called Friends of the Natural History Museum. The purpose of this organization would be to solicit public support for the Museum by establishing a body to publicize the work which the NHM undertakes and to explore additional ways in which a Friends organization could serve the Museum. At a preliminary public meeting held in London on October 25, 1990, a protem committee consisting of Mr. Jonathon Porritt, Dr. John Bullock, Mrs. Frances Murphy, Miss Adele Carritt and Mr. Henry Barlow was elected. In November, 1990 the first of the proposed quarterly Newsletters was published with Henry Barlow as editor. Support for the Friends organization has come from the following countries: Australia, Belgium, Brunei, Eire, Finland, France, Germany, Holland, Hong Kong, India, Indonesia, Israel, Italy, Japan, Kenya, Malaysia, Mauritius, New Zealand, Singapore, Spain, Switzerland, Thailand, United Kingdom and the USA. For further information and/or applications for membership in

this worthwhile endeavor, please contact Henry Barlow, P.O. Box 10139, 50704 Kuala Lumpur, Malaysia. Phone (603) 422-2653. Fax (603) 422-2267.

ALPHABET ON THE WING

Although we don't always understand the message, most of us agree that the intricate patterns on the wings of butterflies and day-flying moths serve to communicate information. Sometimes the message is intended for other members of the same species, as when male butterflies perform courtship displays for females. Sometimes the message is directed at the trophic level above, as when the bright warning colors of poisonous Lepidoptera advertise unpalatability to birds. The colors and patterns of butterfly wings even communicate to humans, albeit unintentionally.

Since the beginnings of civilization, butterflies have provided mankind with compelling symbols of beauty and fragility, have served as a living metaphor for the human soul, and have provided inspiration for countless artists, weavers, and poets. Although most people can appreciate the beauty found in butterfly wings, it takes a trained biologist to read the evolutionary history encoded in their colorful surfaces. But Kjell Sandved, a photographer at the Smithsonian Institution, has taken the interpretive process one step further — he "reads" Lepidoptera wings literally!

In a stunning new poster, Sandved has illustrated every letter of the English alphabet and the numerals 0 - 9 with close-up photographs of Lepidoptera wings. The 36 separate images on the poster form a mosaic of vibrant color. To capture a given letter or numeral, Sandved sometimes used an entire wing, such as the left forewing of a mimetic *Hyalurga* moth (Pericopidae) to form the letter "A." To create other letters he isolated a single pattern element in extreme close-up, such as the ocellus on the wing of a *Parnassius* butterfly (Papilionidae) to represent the letter "D."

This novel project started by accident nearly 30 years ago in a dusty attic at the Smithsonian's National Museum of Natural History. In a box of uncatalogued butterfly and moth specimens, Sandved found one specimen with a wing bearing an obvious letter "F." He took a picture of it, displayed it in his office for inspiration, and began a global quest for the remainder of the alphabet. On location throughout the world to document Smithsonian research projects with his camera, Sandved kept close lookout for other letters and numerals, recording them on film. "I went to the tropical rain forest and looked under leaves and orchids," he says. "I looked at it as a fun Rorschach test, all the designs in nature — spirals and polka dots. The best collection in the world of funny design elements is in nature." Even so, some letters were hard to locate, especially the asymmetrical ones such as "R" and "G."

Butterfly collectors in the tropics usually get most excited when they collect a hard-to-net rarity like *Agrias*. By contrast, Sandved the photographer recently celebrated the discovery of an ampersand in Brazil. "Together with orchids," he says, "butterflies display the most beautiful designs nature has to offer."

Well known to lepidopterists for his marvelous photographs of butterflies and moths in such books as *Butterfly Magic* (with text by Michael G. Emsley, 1975, The Viking Press, Inc., New York, 128 pp.) and *Butterflies* (with text by Jo Brewer, 1976, Harry N. Abrams, Inc., New York, 176 pp.), Kjell Sandved has also published books of photographs on shells, insects, and leaves. He lectures on animal behavior for the museum and continues his photographic work around the world.

Sandved's poster comes in two formats, both 18 by 24 inches. The BUTTERFLY ALPHABET poster is vertical with the 36 images arranged in a block. The ON THE WING poster is horizontal with the same three dozen images arranged (in alphabetical order) in the shape of a butterfly. To order either poster, write Friendship, P. O. Box 39138, Washington, D.C. 20016, or call 1-800-ABC-WING. The posters sell for \$18 signed or \$12 unsigned. A gold seal commemorative first-edition version for each format is available for \$28.

Boyce A. Drummond
Woodland Park, CO

THE SOUTHERN LEPIDOPTERISTS' SOCIETY

The Southern Lepidopterists' Society is open to anyone with an interest in the lepidoptera of the southeast United States. A quarterly newsletter (Southern Lepidopterists, News) is published and regular meetings are held at various locations throughout the region. For additional information write to: Tom Neal, Secretary/ Treasurer, 3820 N.W. 16th Place, Gainesville, FL 32605.

EARTHWATCH RAIN FOREST EXPEDITIONS

There are several Rain Forest expeditions under the aegis of Earthwatch for the coming year. Two of them have special entomological attractions.

The first is Dr. Larry Orsak's WINGS IN THE RAIN FOREST, Wau Ecology Institute, Papua New Guinea, with a team in the field Feb 6-20, 1991. The biodiversity of moths and the sophistication of their unique, and often beautiful, defense systems are the focus of the research in the rain forests surrounding Wau and Aseki in PNG's magnificent highlands. Volunteers will help him discover and catalogue these extraordinary moths as well as aid in local conservation initiatives.

The second is a project by Dr. Roger Kitching, Dr. Meg Lowman and Dr. Susan McIntyre on AUSTRALIA'S RAIN FOREST CANOPY, Lamington Nat'l Park and Cape Tribulation, with teams in the field Jan 28-Feb 6, 1991 and Nov 26-Dec 6, 1991. Volunteers will help Dr. Kitching and his colleagues conduct the first studies of the Australian rain forest canopy, and will explore the teeming life of the forest rooftops on newly constructed canopy walkways.

For more information on these and other Earthwatch expeditions, involving birds, monkeys, orangutans, plants, frogs and even caiman in the Rain Forest, contact EARTHWATCH, 680 Mt. Auburn St., Box 403, Watertown, MA 02272 USA, or phone (617) 926-8200 asking for an Expedition Coordinator. FAX (617) 926-8532, also available.

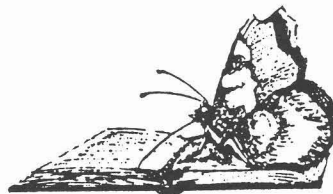


Research Notices

● Will purchase ova of *Catocala illia*, *C. coccinata* and *C. sordida*, which are needed for pesticide evaluations. Must have 100 or more ova of each species. John W. Peacock, 20 Quarry Village Road, Cheshire, Connecticut 06410, USA.

● WANTED: Specimens of *Heliconius erato* and *H. melpomene* from known localities in South America for studies of intraspecific mitochondrial DNA phylogeny. Specimens must be alive, or frozen on liquid nitrogen or dry ice, or field-preserved in 100% ethanol. I will provide supplies and permits if you are travelling to South America and can bring back material for me. For further information, contact Andrew Brower, Section of Ecology and Systematics, Cornell University, Ithaca, NY 14853-2701. FAX: (607) 255-8088.

Books



SOON TO BE PUBLISHED

At last, the *Atlas of Insects on Stamps of the World*, authored by entomologist/philatelist Dennis R. Hamel is about to be published by Tico Press, 6638 Fisher Ave., Falls

Church, Virginia 22046-1819, USA. The Atlas... is an up-to-date, 500 page compilation of insects on stamps. It identifies countries of origin, scientific and common names and catalogue values. The book is a checklist, interspersed with anecdotes about entomo-philately. Write to the publisher, Tico Press, for further information about this publication.

INTERNATIONAL CODE OF ZOOLOGICAL NOMENCLATURE

The Code (3rd edition, 1985) contains the definitive rules for the application of zoological names. It is an indispensable tool for all taxonomists in pure or applied zoology or palaeontology. The 338 page, hardback volume is 216 mm x 138 mm with English and French texts on facing pages. It is published by the International Commission on Zoological Nomenclature. Price is £19 or US \$35 (\$32 to members of the American Association of Zoological Nomenclature). A 25% discount is offered on orders of 5 or more copies of the Code. Order from I.C.Z.N., The Natural History Museum, Cromwell Rd., London SW7 5BD, United Kingdom, or from A.A.Z.N., c/o NHB Stop 163, National Museum of Natural History, Washington, D.C. 20560, USA.

RECENTLY PUBLISHED BOOKS

- Audubon Society. 1990. Familiar Butterflies, North America. Audubon Society Pocket Guide. Alfred A. Knopf, New York. Soft cover: 192 pp. (80 color photos). (\$5.95)
- D'Abreu, Bernard. 1990. Butterflies of the Australian Region. Third (Revised) Edition. Hill House Publishers, Victoria, Australia. Hard cover: 416 pp. (26.5 x 35 cm). \$270.00 U.S. (available from BioQuip Products, 17803 LaSalle Ave., Gardena, CA 90248-3602)
- Forsyth, Adrian. 1990. Portraits of the Rainforest. Photos by Michael & Patricia Fogden. Camden House; Firefly Books, 250 Sparks Ave., Willowdale, Ontario M2H 2S4. Hard cover: 223 pp. (\$29.95)
- Gomez de Aizpurua, Carlos. 1987. Noctuidae. Ministerio de Agricultura, Pesca y Alimentacion, Centro de Publicaciones, Madrid.
- Marquand, Ed. 1990. The Art of the Butterfly (Butterflies and Moths from the World Insectarium and Butterfly Park, Singapore). Chronicle Books, 275 Fifth Street, San Francisco, CA 94103. 120 pp. (130 photographs by Michael Burns). (\$30 hard cover; \$16.95 soft cover)
- Mayer, Marion S. & John R. McLaughlin (eds.). 1990. CRC Handbook of Insect Pheromones and Sex Attractants. CRC Press, Inc., 2000 Corporate Blvd., N.W., Boca Raton, FL 33431. Hard cover: 992 pp. (\$348.00)
- Schneck, Marcus. 1990. Butterflies: How to Identify and Attract Them to Your Garden. Rodale Press, 33 East Minor St. Emmaus, PA 18098. Hard cover: 160 pp. (300 color illus., photos, & maps). (\$24.95)
- Silcock, Lisa (ed.) 1990. The Rainforests: A Celebration. Forward by HRH The Prince of Wales. Compiled by the Living Earth Foundation. Chronicle Books, 275 Fifth Street, San Francisco, CA 94103. Hard cover: 156 pp. (\$35.00)
- Speidel, Wolfgang & Michael Hassler. 1989. Die Schmetterlingsfauna der sudlichen algerischen Sahara und ihrer hochgebirge Hoggar und Tassili n'Ajjer (Lepidoptera). Nachrichten des entomologischen Vereins Apollo, Supplementum 8. Entomologischer Verein Apollo, Frankfurt, Federal Republic of Germany.
- Xerces Society & Smithsonian Institution. 1990. Butterfly Gardening: Creating Summer Magic in Your Garden. Sierra Club Books, Random House, New York. Soft cover: 191 pp. (\$18.95)

NEW JOURNAL BEING PUBLISHED IN POLAND

A quarterly of the Polish Taxonomical Society, called "Genus" is now being published and subscribers and contributors are invited to find out more about it. It will contain taxonomical revisions of various groups of invertebrates, descriptions of new taxa, zoogeographical

syntheses, articles on theory and practice in taxonomy and book reviews. All papers will be submitted to two experts for review. "Genus" is available only by subscription. For further information write to Biologica Silesiae, ul. Partyzantów 19/3, 51-672 Wrocław, Poland, Korespon.: skr. poczt. 2444 Wrocław 48, Poland.

Address Changes



- ASBREY, RODERICK: 2617 Landing View Lane, Charlotte, NC 28226.
- BRUYEA, GUY P.: 5225 Pearblossom Drive, #23, Riverside, CA 92057-6060.
- FINKELSTEIN, JORDAN W. (M.D.): Penn State University, E-210 Henderson, University Park, PA 16802.
- HANUS, JEAN: 2 Place Vaucanson, F-38000 Grenoble, FRANCE.
- KLINGLER, MARK: Department of Invertebrate Zoology, Carnegie Museum of Natural History, 4400 Forbes Avenue, Pittsburgh, PA 15210-4080.
- MORRELL, GLENN S.: 172 Trolley Crossing Lane, Middletown, CT 06457.
- RICHARDSON, NORMAN: 372 Waltham Street, Newton, MA 02165.
- WHITFORD, FRED: 13532 East Jolissaint, Baton Rouge, LA 70810-3324.

CORRECTIONS AND MINOR CHANGES TO THE 1990 MEMBERSHIP DIRECTORY

- KEISER, ROBERT: change postal code to "B-2070".
- KERSTITCH, ALEX: new phone # is (602) 749-9087.
- LOCKWOOD, MICHAEL G.: change street address to: 215 Hialeah Avenue.
- ROBINETTE, RANDY: new phone # is (606) 928-6993; new ZIP is 41102.
- WEST, DAVID A.: new phone # is (703) 231-8944.

New Members



- ARMSTRONG, ED: P.O. Box 806, Pepperell, MA 01463-0806.
- ARTHUR, FREDRICKA (FREDDY): P.O. Box 1234, Murrells Inlet, SC 29576-1234.
- BOWLES, BRENT J.: 4053 Park Avenue, Minneapolis, MN 55407.
- CAREAGA, MARTIN: 3718 Avenida Palo Verde, Bonita, CA 92002-1008.
- CARR, THOMAS W.: 6626 Weckerly Drive, Whitehouse, OH 43571-9695.
- CROWE, MARY: Dept. of Biology, Northern Illinois University, DeKalb, IL 60115.
- DOBKIN, IRVING B.: 306 Maple Avenue, Highland Park, IL 60035.
- GREENSLADE, BRIAN R.: 1180 Monroe Drive, #6, Atlanta, GA 30306.
- HALL, DAVID: 6 Rule Street, Cambridge Park, N.S.W. 2747, AUSTRALIA.
- HARK, WILLIAM T.: 4317 Southwood Drive, Alexandria, VA 22309-2822.
- HUMPHREY, RUSSELL: 224 South Huron Street, Cheboygan, MI 49721.
- LUNDGREN, MILFORD R.: P.O. Box 651, Twain Harte, CA 95383-0651.
- MILLER, RENEE E.: 144 East 84th Street, #4E, New York, NY 10028.
- PARKER, RICHARD S.: 39 Overbrook Drive, Vernon, CT 06066.
- PUIG, JORDI: VIP #538, P.O. Box 52-5364, Miami, FL 33152-5364.
- ROSS, DANA N.: 1415 East Briarcliff Lane, Eugene, OR 97404.
- SCOTT, STEPHEN W.: P.O. Box 130, Lemont, PA 16581-0130.
- SKILLMAN, FRED W., Jr.: P.O. Box 28, Citra, FL 32113-0028.
- SMYTH, MAURITA M.: 6261 S.W. 47th Place, Portland, OR 97221.
- van OOSTEN, JAN ROGER: 8023 17th N.E., Seattle, WA 98115.

WEINERTH, BILL: 1368 Elsinor Avenue, Ventura, CA 93004-2829.
WACHOWIAK, KEVIN: 740 53rd Avenue, Winona, MN 55987.

NEW MEMBERS WHO ARE LISTED IN THE 1990 MEMBERSHIP DIRECTORY, BUT WHOSE NAMES WERE NOT SEPARATELY LISTED IN THE NEWS

ACKERY, P. R.
ANGOLOMOZO, ANATOLE
BEARD, RICHARD C.
BULLOCK, MARGARET
CARMONA, JOSE A.
CASTILLO, ANA M. (Miss)
DAVIS, RICHARD E.
GARRIGAN, DANA A.
HEMSTREET, DALE
JAFFRAY, PATRICIA ANN
KELLY, BILL
LAGACE, JEAN-PIERRE
LING, STEPHEN W. G.
NOVAK, DARREN
PARZIALE, VICTOR
SEVERNS, DONALD G.
SPIELMAN, LeROY
TEWKSBUURY, JOSHUA JORDAN
WHITMAN, DOUGLAS

ADAIR, W. LEE, Jr.
BAKER, JAMES H.
BOARDMAN, SHERRILL A.
CANTERBURY, KIRSTEN M.
CARTER, LANCE
CHONG L., LUIS M. (Dr.)
FOX, MARK
GRIGGS, SCOTT
HENNE, DONALD C.
KARPULEON, MARCUS F.
KRUTZSCH, PHILIP H.
LAURENDEAU, GAETAN
NADBORNE, IRA
OKUYAMA, TOMIO
SCHOOLEY, DAVID A. (Dr.)
SPENCE, DONNA
STEINKE, SABINE (Mrs.)
WEISS, LISA
WRIGHT, AMY BARTLETT

The Market Place

Buy • Sell • Exchange • Wants



BUY - SELL - EXCHANGE: POLICY STATEMENT...

At the Executive Council meeting in Fairbanks in June 1979 it was decided that the policy regarding placement of members' notices in the NEWS should be determined by the Editor, in keeping with the purposes of the Society as outlined in the Constitution, i.e.: "... to promote the science of lepidopterology; ... to facilitate the exchange of specimens and ideas by both the professional worker and the amateur in the field, ..." (Article II). Commerce in lepidoptera is not a stated objective.

Therefore, it will be our policy to print notices which seem to meet the above criteria, just as in the past, without quoting prices (except for those of publications or lists). Notices which seem by their listing of offerta/desiderata, or by an organizational title, to be commercial in nature, will be entered in a separate section as "commercial notices," listing only name, address, and a brief indication as to material offered/ desired. No mention may be made in these notices of any species on any threatened or endangered species list. This will include all Ornithopterans now and for the foreseeable future.

Only members in good standing may place ads. Ads will be printed only once unless entry in two (maximum) successive issues is requested. A maximum of 100 words is allowed. S.A.S.E. in an ad stands for 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. Any disputes arising from such notices must be resolved by the parties involved outside of the structure of the Society.

AVAILABLE THROUGH FEBRUARY: Wild stock polyphemus cocoons. I can take large orders for research. James G. McKeithan Jr., 922 Homlock Ave., Wilmington, North Carolina 28403, USA or phone (919) 392-1899.

WANTED: Overwintering pupae of Papilio eurymedon, P. rutulus, and/or P. cresphontes. Please contact Tony Pittaway, 2 Meadow Close, Moulsoford, Oxfordshire OX10 9JL, United Kingdom.

FOR SALE: Light traps for use with 12 volt batteries or 120 volt AC, or both. Portable and light weight with 8, 15 or 22 watt bulbs. Beetle screen and rain drain. Excellent design and construction. For more information and pricing, contact: Leroy C. Koehn, 2946 N.W. 91st Ave., Coral Springs, FL 33065. Telephone (305) 344-3873.

FOR SALE: Cocoons of A. luna, H. cecropia, C. promethea and A. polyphemus. Large numbers are available. Send SASE for price list to Daniel Bantz, 12524 7 1/2 Mile Road, Caledonia, Wisconsin 53108, or phone (414) 835-2870.

FOR SALE OR IN EXCHANGE FOR SPECIMENS: D'Abrebra's Butterflies of the Australian Region, original 1971 edition. Note that it is a worn copy but available at a bargain. ALSO, I invite correspondence with specimen exchange in mind. I am a specialist in world Papilionidae and especially encourage offers to exchange rare/unusual taxa, and I can offer the same. However, non-Papilionid offers/correspondence also is welcome from all areas. Danny Burk, P.O. Box 403, Mishawaka, Indiana 46544, USA.

WILL EXCHANGE: Plebulina emigdionis, Anthocharis cethura, Speyeria nokomis apacheana, S. adlaste clemencei, Epidemia epixanthe, and other material for any and all Megathymus and Agathymus. Males wanted for genetical studies. Wings and antennae need not be perfect, but abdomens must be intact and full data required. Roderick Clayton, 4176 Inglewood Blvd., Apt. 9, Los Angeles, California 90066. Phone (213) 390-0802.

WANTED: SEEDS OF Poncirus trifoliata - Hardy-orange; Evodia daniellii - Korean Evodia; Xanthoxylum americanum - Prickly-ash or Toothache tree; Xanthoxylum simulans - Flatspine Prickly-ash; Larix decidua - European Larch; Larix laricina - Eastern Larch (Tamarack); Avicennia germinans - Black-mangrove; Quercus laurifolia - Laurel oak; Quercus myrtifolia - Myrtle oak (Scrub oak); Quercus virginiana - Live oak; Magnolia virginiana - Sweetbay or Swamp Magnolia; Ginkgo biloba - Ginkgo; Toxicodendron vernix - Poison-sumac or Poison-dogwood; Acacia farnesiana - Huisache or Sweet Acacia; Acacia roemeriana - Roemer Catclaw; Acacia wrightii - Wright Catclaw or Texas Catclaw; Sophora affinis - Texas Sophora or Coralbean; Parkinsonia aculeata - Jerusalem thorn; and Jacaranda acutifolia or mimosifolia - Jacaranda. Contact Randy Robinette, 4528 Hatfield St., Ashland, Kentucky 41102, USA.

WANTED: Any livestock (pupae, cocoons, ova) of rare and uncommon Saturniidae moths from America, Asia, Africa. Will buy or exchange for papered ex-pupa specimens of rare bred Saturniidae (e.g., Antheraea helferi, Loepa megacore, Brahmaea tancrei, Actias maenas, Argema mittrei, Rothschildia roxana, etc.). FOR SALE: Eggs of the Walking Leaf Insects (Phyllium spp.). Easy to rear on bramble. With rearing instructions. BOOKS WANTED: Good clean copies of the following books: Ferguson, D.C.: The Moths of America North of Mexico, fasc.20.2 A/B Saturniidae. Two volumes 1971/72. Packard, A.S.: Monograph of the Bombycinae Moths of North America part 2: Ceratocampinae and part 3: Ceratocampidae, Saturniidae (Mem. Natl. Acad. Sci., Washington Vol. 9 (1905) and Vol. 12 (1914). Offers to Helmut Probst, Augsburg Str.7, W-8939 Tuerkheim, Germany.

FOR EXCHANGE OR SALE: I expect to obtain from the Grande Comore (Comoro Islands) a few Graphium levasorri, P. dardanus humbloti, and P. aristophontes. I also expect some mixed small butterflies and beetles. Want-lists for these items solicited, but for non-papilio species I require photocopies of pictures of the species you require. M.A. Cranston, P.O. Box 432, Seekonk, Mass. 02771.

WANTED TO PHOTO FOR BOOK: Live ova/larvae/pupae of Lepids. from other areas. Most wanted: Papilios, Parnassius, Pierids, Nymphalidae: (Fritillaries esp. S. diana and idalia, Anaea sp., Marpesia petreus, Admirals, A. bredowii, Hypol. missippus, Anartia jatrophae, Angle wings, Eunica), Lycaenids, Hel. julia, Sphingids, Thysanis zenobia, Ascal. odorata, Saturniids and more, live Brown Recluse Spider, and interesting insects, etc. I'll buy, trade, or send slides as available. Send your lists. I'll send mine. David Liebman, 981 S. Quail Street, Norfolk, Virginia 23513. Phone (804) 853-4722.

FOR SALE: Pupae of H. cecropia, A. luna, S. cynthia, E. imperialis, C. regalis, and others. Send a SASE to Jeff Frey, 364 Oaklyn Rd., Lebanon, PA 17042, or phone (717) 272-6597.

FOR SALE: Cocoons of A. luna and C. promethea. Papered adults also available. SASE for prices to: Larry J. Kopp, R.D. 1, Box 30, Klingerstown, PA 17941.

FOR EXCHANGE: Reared pairs of Atides halesus. Ron Gattelle, 126 Wells Road, Goose Creek, South Carolina 29445, USA.

FOR SALE: U.S.S.R. butterflies direct from the U.S.S.R. Many rare species available in season, including Parnassius. TRADES CONSIDERED for showy worldwide species such as Papilio, Morpho, etc. English-speaking lepidopterist seeks correspondence with collectors in the U.S. and other countries. Write for information and address labels, sending SASE (U.S. replies) or self-addressed envelope (overseas and Canadian replies) for immediate response in care of Harry Pavulaan, P.O. Box 2494, Rockville, Maryland 20847, USA.

FOR EXCHANGE: Wisconsin leps, including Rhopalocera, Sphingids, Catocala, Arctiids. Desire series of U.S. leps in exchange. SASE for list. George Holbach, Route 1, Adell, Wisconsin 53001.

FOR SALE: Pupae and papered specimens of H. cecropia and A. luna. Send SASE to Ronald Aaron Royer, R.D. 4, Box 2295, Lebanon, Pennsylvania 17042-9433 or phone (717) 867-1021.

FOR SALE: Rare arctic Rhopalocera from Northern Europe; Colias, Clossianna, Oeneis, Erebia and Lycaena. Juhani Pitkanen, Koskikuja 4A2, 01600 Vantaa, FINLAND.

ATTENTION LEPIDOPTERA BREEDERS: I would like to obtain living pupae, primarily from Rothchildia and Attacus families, but also other Saturniidae and even Sphingidae. Will exchange for pupae from East Europe of Z. polyxena, P. machaon, E. pavonia, S. pyri, E. versicolora, some Sphingidae species and other species such as A. pernyi, A. harti, A. suraka, A. artemis. Purchase or sale also possible. Bozik Rinn, Studnice u Nachoda 25, 549 48, CSFR, CZECHOSLOVAKIA.

FOR SALE: Many large exotic coleoptera. Disposing of 35 year collection of Dynastes, Megasoma, Cetonid and Cerambycid specimens. Send SASE to Ken Deitcher, M.D., Box 5162, Albany, New York 12205-0162, USA.

FOR SALE OR EXCHANGE: Ova clusters of Malacosma americanum. ALSO FOR SALE: Seeds of Milkweed, Black Locust, Hackberry and Spicebush. Contact Kenneth R. Knight, 433 Brady NW, Comstock Park, Michigan 49321, USA, or phone (616) 784-6243.

FOR SALE: Hyalophora cecropia cocoons. Semi-wild reared. Jim Oberfoell, Rt. 2, Box 103, Bowman, North Dakota 58623.

WANTED BY ELDER CHARTER MEMBER: Any North American Lepidoptera you can spare, papered or mounted. All 2A quality is fine. Will pay all shipping costs. ALSO FOR SALE OR EXCHANGE: Praying Mantis egg cases, Tenodera sinensis. Will sell reasonably or exchange for domestic or tropical lepidoptera, cocoons, pupae or crystals.

Michael Zappalorti Sr., 123 Androvette Street, Staten Island, New York 10309, USA.

FOR SALE: Butterflies from California, Mexico, Arizona and Israel. Free list available. Robert Wuttken, 9506 National Blvd., Palms, California 90034-2820, USA.

WANTED: Price lists from dealers and breeders of worldwide lepidoptera. All price ranges. Papered specimens or living pupae. I am very interested in Indo-Australian Papilionidae. Please send price lists to Michael G. Lockwood, 215 Hialeah Ave., Houma, Louisiana 70363, USA.

FOR SALE: Large overwintering pupae of C. regalis. Send SASE to Catherine Hartman, 25903 CR24W, Elkhart, Indiana 46517, USA.

FOR SALE OR EXCHANGE: Ova of Catocala whitneyi, amestris, abbreviatella, concupens, cara, amatrix, neogama, piatrix, residua, obscura, paleogama and ultronia. Data for females and hostplant information provided on request. Will sell but prefer to exchange for ova of western or southern Catocala, or ova of western Hemileuca. John W. Peacock, 20 Quarry Village Road, Cheshire, Connecticut 06410, USA.

FOR SALE: 1991 ova of the following species — Hyalophora cecropia, Hyalophora hybrids, Antheraea polyphemus, Actias luna, Eacles imperialis, Callosamia promethea, C. angulifera and others! ALSO FOR SALE: Well constructed rearing sleeves for lepidoptera larvae. Send SASE to Jeff Frey, 364 Oaklyn Road, Lebanon, Pennsylvania 17042.

FOR SALE Cocoons and pupae of A. selene, A. atlas, C. regalis, C. promethea and H. cecropia. Quantities may be limited. Orders filled in order received. Send SASE to Mark Schmidt, 8780 Red Lion—Five Points Rd., Springboro, Ohio 45066.

MEMBERS' COMMERCIAL NOTICES.....

EDUARDO C. WELLING M., Apartado Postal 701, Mérida, Yucatán, Mexico. Will exchange insects for the following publications: Cecile Hulse Matschat (J. A. Richards Inc., Random House, N.Y., 1942 by Artists and Writers Guild, Inc.), American Butterflies and Moths; Lillian D. Fazzini, Butterflies of North America; Kenneth J. Hayward, Catálogo Sinonímico de los Ropalóceros Argentinos, 1950; H. L. Lewis, Butterflies of the World, 1973; Alexander Heyne & Dr. Otto Taschenberg, Die Exotischen Käfer in Wort und Bild, Esslingen und München 1908; E. W. Rockburne & J. D. Lafontaine, The Outworm Moths of Ontario and Quebec; Bernhard Klausnitzer, Beetles, 1983 English edition; Fernando do Zayas, Revisión de la Familia Cerambycidae, Laitabama, Cuba; Mohres-Reitter, Coleopteros. La Vida Enigmática de los Escarabajos, Ediciones Daimon, Manuel Tamayo, Madrid-Barcelona-Mexico-Buenos Aires, 1966, by Chr. Belser Verlag, Stuttgart (either Spanish or English edition). Will accept any of these used if in good, clean condition.

STEPHEN LING, CALIFORNIA IMPORT & EXPORT CO., 414 Cloverleaf Drive, Suite B, Baldwin Park, California 91706, USA. Telephone (818) 330-7112; Fax (818) 330-7594. Importer of preserved, crystallized and plastic-embedded butterflies, scorpions, beetles and rare insects made into key chains, paperweights, pen holders and even clocks. Others mounted in glass topped wooden frames. Respond only if you are a serious retailer doing resale and can start an account with \$200 minimum, or a wholesaler who would like to distribute our products to your retail outlets. Excellent quality and unique items for collectible gift shops, insect collectors, stationery stores and taxidermists.

THOMAS GREAGER, R.D. #6, Box 56-B, Greensburg, PA 15601, USA. FOR SALE: WORLDWIDE BUTTERFLIES in all families. Also some moths, beetles, and other insects. Finest quality specimens with complete data. Satisfaction guaranteed. Good prices. ALSO FOR SALE: INSECT PINS—Imperial, Elephant, and Stainless Steel in all sizes. United States residents send SASE to begin free price list subscription. Foreign residents send US\$5.00 for a one year price list subscription.

J. M. CHAVEZ, 1015 No. El Centro Ave., Hollywood, Calif. 90038. Finest quality lepidoptera specializing in South American species, with full collecting data; for collections, educational, art. Good prices. List \$1.00. ALSO WANTED: Contacts with serious dealers from BRAZIL, BOLIVIA, ECUADOR, COLOMBIA and CENTRAL AMERICA. I am interested in all families of butterflies.

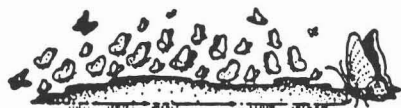
TRANSWORLD BUTTERFLY COMPANY, Apartado 6951, 100L San Jose, COSTA RICA, Central America. Serving Lepidopterists worldwide since 1976. LATEST 12-PAGE ILLUSTRATED CATALOG includes Neotropical, African, Palearctic and Indo-Australian butterflies. Specialist listings of Papilionidae, Morphidae, and Brassolidae. Many seldom offered species! Books and more. WE OPERATE PERSONALIZED ENTOMOLOGICAL, NATURALIST, BIRDING TOUR PROGRAMS. Latest catalog \$1 or one year's monthly lists via airmail \$6.

I. R. WILLEM, P.O. Box 1625, Margate 4275, SOUTH AFRICA. FOR SALE: Largest selection of South African beetles, including Hypselogenia geotropina, Eudicella outhalia natalensis, Amaurodes passerini rufotibialis, Anthia sp., Julodis, Mantichora sp. Also the multicoloured rainbow grasshopper, Maphyeteus leprosus. Also butterflies: Charaxes druceanus cinadon, ethalion and other rare material on special request.

MIGUEL SERRANO, TROPICAL BUTTERFLIES OF AMERICA, 6823 Rosemary Drive, Tampa, Florida 33625, USA. Rare and beautiful butterflies from Central and South America including bred Papilio, Anaea, etc. Many Morpho, Brassolidae, Agrias and some Indonesian material as well. Lists \$1.

TRIVIA TIME

From the Los Angeles Times of May 23, 1990 comes the following tidbit, sent to the NEWS by Ron Leuschner. "Speaking of problems.... In case you were wondering, the dog-eared butterfly—not the Medfly—is California's official insect." "Only in the hands of careless collectors!" says Ron.



Forthcoming Meetings

INTERNATIONAL ENTOMOLOGICAL TRADE FAIR LYON, FRANCE

The 6th International Entomological Trade Fair and Educational Exhibition of Lyon will be held March 22, 23 and 24, 1991 at the Mairie de Lyon, 8th district (townhouse), 12 Jean Mermoz Street. There will be educational exhibits, film showings, a drawing competition for schools and a trade fair with sales, purchases and exchanges. Public admission is 28FF and is from 10:00 a.m. until 7:00 p.m. on Saturday the 23rd and Sunday the 24th only. For further information, lists of hotels, etc., please contact FRANCE ENTOMOLOGIE, 18 Sente des Chataigniers, F. 92380 Garches, France.

THE LEPIDOPTERISTS' SOCIETY 42nd Annual Meeting Sonoran Arthropod Studies, Inc. & University of Arizona Tucson, Arizona 85703 Thursday, August 1 to Sunday, August 4, 1991

Sonoran Arthropod Studies, Inc. and the University of Arizona's Department of Entomology will host the 42nd Annual Meeting of the Society at the Quality Inn University

in Tucson. Special features being planned include:

- Access to the University of Arizona and Arizona State University insect collections.
- Synoptic collections of the Sonoran Lepidoptera Survey.
- Symposia on Butterfly Mating Systems, Biology and Systematics of the Arctiidae, and The Saturniidae.
- Field trips to collecting areas in the mountains of southeastern Arizona.
- Annual banquet and awards presentation.
- Opportunities to visit the Arthropod Discovery Center, Arizona-Sonora Desert Museum, Mission San Xavier del Bac, Old Tucson and Nogales, Sonora, Mexico.
- Poster sessions.
- 4th of July Butterfly Counts.

ACCOMMODATIONS

The Quality Inn University has offered Society members a terrific package of rooms during the meeting. The rates for rooms are \$33 per day for single, double, triple or quadruple occupancy. It will be possible to extend the occupancy before or after the meeting. Meals will be available at the Inn or at other restaurants in the neighborhood.

Other hotels and motels are located within blocks of the Quality Inn and rates vary considerably. Campgrounds and RV parks are about 10 miles distant.

Information on all accommodations as well as dining and sightseeing opportunities will be included in the registration packets.

REGISTRATION

If you have any interest in attending the meeting, then complete the following questionnaire IMMEDIATELY. When your completed form is received, you will be sent a registration packet that contains information on registration, accommodations, submission of titles for contributed papers, deadline dates and more. These registration packets will be mailed in February. Please respond promptly as this will increase our efficiency in planning for activities and accommodations.

IMPORTANT: There will not be a general mailing of registration forms or call for papers. To obtain these, complete and return the following query.

Name: _____

Address: _____ City: _____

State/Province: _____ Country: _____ Zip Code: _____

Number of persons in your party who will register: _____

Number of persons in your party who will need accommodations: _____

Where will you stay: Quality Inn _____ Campgrounds _____ Other _____

How will you travel to meeting? Your vehicle _____ By plane _____ Other _____

Will you present a paper _____ poster _____ at the meeting?

Which of the following field activities interest you most?

Diurnal collecting _____ Nocturnal collecting _____ Photography _____ Birding _____ Southwest History _____

Other (please describe) _____

When would you like to be in the field? 1 day pre- _____ 1 day post- _____ overnight _____ birdwatching (morning) _____

Would you participate in 4th of July Butterfly Counts? Yes _____ No _____

If you have any suggestions, questions, or special needs (such as child care), please indicate:

Mail to: Steve Prchal, Sonoran Arthropod Studies, Inc., P.O. Box 5624, Tucson, AZ 85703, USA. Phone: (602) 883-3945.

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 5th of January. NEWS EDITOR is June Preston, 832 Sunset Dr, Lawrence, Kansas 66044-2373, USA. Phone (913) 843-6212. RIPPLES EDITOR is Jo Brewer, 257 Common St, Dedham, Massachusetts 02026-4020, USA.

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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, Fay H. Karpuleon, 1521 Blanchard, Mishawaka, Indiana 46544, USA, phone (219) 258-4893, the full dues for the current year, \$25.00 US, together with mailing address and a note about areas of interest in the Lepidoptera; student membership (must be certified) \$15; sustaining membership \$35; life membership \$500. 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 directory will comprise the last issue of the NEWS in even-numbered years.

Changes of address (permanent ones only), Additions or Changes in Telephone Numbers or Areas of Interest and Information about Mailing List Rental: Contact the ASSISTANT SECRETARY, Julian P. Donahue, Natural History Museum of Los Angeles County, 900 Exposition Blvd, Los Angeles, California 90007-4057, USA.

Information on Membership and other aspects of the Society must be obtained from the SECRETARY, Dr. William D. Winter, Jr., 257 Common Street, Dedham, Massachusetts 02026-4020, USA. Home phone (617) 326-2634.

Requests for Missed Issues (i.e. those not delivered although dues have been paid on time) should be sent to the TREASURER, Fay H. Karpuleon, address above, or the PUBLICATIONS COORDINATOR, Ron Leuschner, address below. Defective issues will also be replaced by the TREASURER. Do not request these of the NEWS editor.

Manuscripts submitted for publication in the JOURNAL are to be sent to Dr. Boyce Drummond, EDITOR, JOURNAL of the Lepidopterists' Society, Natural Perspectives, P.O. Box 9061, Woodland Park, Colorado 80866-9061, USA. Phone (719) 687-6596. See the inside back cover of a recent issue of the JOURNAL for editorial policies.

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AVAILABLE PUBLICATIONS OF THE SOCIETY..... Order from the PUBLICATIONS COORDINATOR, Ron Leuschner, 1900 John St., Manhattan Beach, CA 90266-2608 USA.

CATALOGUE/CHECKLIST OF THE BUTTERFLIES OF AMERICA NORTH OF MEXICO (Memoir #2), Lee D. Miller and F. Martin Brown: includes references to original descriptions and location of type specimens. Members and subscribers, \$12 cloth, \$7 paper; non-members, \$19 cloth, \$10.50 paper, postpaid.

SUPPLEMENT TO THE CATALOGUE/CHECKLIST OF THE BUTTERFLIES OF AMERICA NORTH OF MEXICO (Memoir #3), Clifford D. Ferris, editor. General notes, plus corrections and additions to the original Memoir #2. Members and subscribers: \$6.00 postpaid; \$7.50 first class in USA or \$9.00 airmail abroad. Non-members: \$10.00 postpaid; \$11.50 first class in USA or air post to Canada.

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, \$8; non-members, \$12, postpaid.

1990 MEMBERSHIP DIRECTORY (current to October 1990. Biennial directory of members and their addresses, with geographic and interest indices. Not available for commercial use. (NEWS #6 for 1990). \$5.00 postpaid.

BACK ISSUES of the JOURNAL and of the NEWS of the Lepidopterists' Society. For a list of the available issues and their cost, postpaid, send a SASE to the SECRETARY or to the PUBLICATIONS COORDINATOR.