

NEWS

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1989 SEASON SUMMARY CONTINUED

ZONE 4 ROCKY MOUNTAINS: ALBERTA, MONTANA, WYOMING, UTAH, COLORADO, and NEW MEXICO. Coordinator: Ray E. Stanford (RES), assisted by Katharine A. Stanford and Scott E. Stanford. Contributors: Karolis Bagdonas and his "flying circus" (BFC, including Davin Bagdonas, Halena Bagdonas, Michelle Barlow, Gillian Bowser, Wayne Bushonville, Karin Long, Patrice Lussy, Marilyn Lutz, George Mantz, Dave Moore, Doug Phlough, Mark Podany, Dave Reimer, Betsy Smith, Lisa Snyder and Alex Vargo), Larry D. Beutler (LDB), Steven J. Cary (SJC), Neil Dankert (ND), Terhune S. Dickel (TSD), Clifford D. Ferris (CDF), Michael S. Fisher (MSF), Gregory S. Forbes (GSF), Steven J. Kohler (SJK), Norbert G. Kondla (NGK), Robert L. Langston (RLL), Ronald H. Leuschner (RHL), James Mouw (JM, with Steve Stone), Robert C. Mower (RCM, et al), Paul A. Opler (PAO), Kilian Roever (KR), Ronald A. Royer (RAR), Patrick J. Savage (PJS, with wife Susan), James A. Scott (JAS), Ann B. Swengel (ABS), Paul M. Thompson (PMT, with Youssef Hashash), James P. Tuttle (JPT, with Michael J. Smith), Andrew D. Warren (ADW). Total of 24, a slight improvement from 1988 due to the Lepidopterists' Society meeting in New Mexico. There were 3 state records and 115 county records for butterflies, but no state records and an uncertain number of county records for moths (RHL may have several, in addition to the CDF and RCM records listed). The season was normal overall, although wet in the north, dry in the center, and spotty in the south. The year for all records in this Summary is 1989 except as noted. Capitalized county names represent new county records for my files. As always, several people sent extensive contributions, most from 1 or 2 states; CDF sent data from 4, and PJS and ADW sent data from 3. Thanks as always to all contributors. A few non-obvious abbreviations: Cn = Canyon; Cg = Campground; GTNP = Grand Teton Nat'l Park; Lk = Lake; Rg = Range; Rgr = Ranger; Rvr = River; Vy = Valley; YNP = Yellowstone Nat'l Park.

ALBERTA. Contributor: NGK. It was a wet, cloudy and late season, with extremely poor collecting at higher elevations.
BUTTERFLIES: Pyrgus centaureae freija, 2 mi N of Swan Hills, SOUTH, 15 Jun. Thymelicus lineola, near Edmonton, 16 Jul, EARLY. Colias gigantea, Cardinal Rvr Recr Area, 6 Aug, LATE. Speyeria edwardsii, 5 mi E of Rumsey, NORTH, 3 Jul. Neominois ridingsii, 5 mi E of Rumsey, NORTH, 3 Jul. Oeneis macounii, Westbridge Lk, near Clyde, 28 May, EARLY.
MOTHS: No reports.

MONTANA. Contributors: SJK, KR, RAR, PJS. There were no comments on conditions.
BUTTERFLIES: 70 records were received, of which 39 are reported here; there were 38 county records, involving 29 species. MT now has 73.46 avg sp/Co, compared with 72.79 a year ago and 64.70 in 1986; I still predict over 100 sp/Co, but may not live to see it! Erynnis icelus, Mill Crk, 25 mi S of Livingston, PARK Co, 5 July (KR). Pyrgus ruralis, Grassy Mtn Rd, 6000', 20 mi E of Townsend, Big Belt Mts, BROADWATER Co, 11 Jun 1988 (Bea Vogel/SJK). Oarisma garita, 10 mi N of the Big Snowy Range, FERGUS Co, 22 June (RAR). Hesperia uncas, 4 mi E of Columbus, STILLWATER Co, 3 July (KR). Amblyscirtes vialis, Portal Crk, 36 mi S of Bozeman, GALLATIN Co, SW, 4 Jul; Big Creek, 29 mi SW of Livingston, PARK Co, 5 Jul (both KR). Megathymus streckeri, near Hayes, BLAINE Co, NORTH (this is close to Canada, which would be a national record!), 29 June (SJK); 4 mi E of Columbus, STILLWATER Co, SW, 3 July (KR). Papilio rutulus, Black Pine Rd, near Phillipsburg, GRANITE Co, 3 Jul (SJK). P. multicaudatus, E Rosebud Lk, 6200', Carbon Co (confirms very old record from USNM, det by PAO), 2 Jul 1988 (Bea Vogel/SJK). P. eurymedon, Rd 4178, E side of Mt Baldy, 6000', 15 mi ENE of Townsend, BROADWATER Co, 8 Jul (Bea Vogel/SJK); Mill Crk, 25 mi S of Livingston, PARK Co, 5 Jul (KR). Pieris napi, Divide Crk, SILVER BOW Co, 20 June 1940 (H A Howland/SJK). Pontia sisymbrii, Bull Lake, LINCOLN Co, NW, 12 May (SJK). Colias alexandra, Rd 4178, on E side of Mt Baldy, 6000', 15 mi ENE of Townsend, BROADWATER Co, 8 Jul (Bea Vogel/SJK). Colias gigantea, 5 mi N of Phillipsburg, GRANITE Co, 3-6 Jul (SJK). Lycaena cuprea, Grassy Mtn Rd, 6000', 20 mi E of Townsend, BROADWATER Co, 11 June 1988 (Bea Vogel/SJK). L. hyllus, Benbow Mine Rd, 8500'-9200', 17 miles SW of Fishtail (?HIGH), STILLWATER Co, 18 Jul (Bea Vogel/SJK). Calliphrys affinis, S of Helmsville, POWELL Co, 5 Jun (SJK). Mitoura siva, E Rosebud Lk, 6100', CARBON Co, 3 Jul (Bea Vogel/SJK). Incisalia mossii, E Rosebud Lk, 6100', CARBON Co, SE, 20 May (Bea Vogel/SJK). Euphilotes enoptes, 10 mi N of Big Snowy Rg, FERGUS Co, EAST, 22 Jun (RAR); Benbow Mine Rd, 8500'-9200', 17 mi SW of Fishtail, STILLWATER Co, 18 Jul (Bea Vogel/SJK). Plebejus shasta, Black Pine Rd, near Phillipsburg, GRANITE Co, 3 Jul (SJK). Euptoietia claudia, 4 mi N of Buffalo, JUDITH BASIN Co, 19 Sep; 1 mi SW of Harlowton, WHEATLAND Co, 19 Sep (both KR). Boloria kriemhild, Grassy Mtn Rd, 6000', Big Belt Mtns, 20 mi E of Townsend, BROADWATER Co, NE (1st new record in many years), 11 Jun 1988 (Bea Vogel/SJK). Euphydryas colon, 6 mi NW of Babb, GLACIER Co, EAST, 27 Jun (SJK). E. anicia, Big Creek, 28-30 mi SW of Livingston, PARK Co, 5 July (KR). E. gillettii, Cream Creek Rd, 5 miles W of West Yellowstone, Gallatin Co (confirms old record in the Carnegie Museum), 16 Jul; Meadow Creek, FR 1815, SW side of Rogers Pass, LEWIS & CLARK Co, 17 Jul (both PJS). Chlosyne palla, 5 mi N of Phillipsburg, GRANITE Co, 5 Jul (SJK); Big Crk, 28 to 30 mi SW of Livingston, PARK Co, 5 July (KR). C. gorgone, E Rosebud Cn, 5400', 8 mi S of Roscoe, CARBON Co (new records are rare in this very well-known county), 19 Jun 1989 (Bea Vogel/SJK). Phycoides pallida, Grassy Mtn Rd, 6000',

Big Belt Mts, 20 mi E of Townsend, BROADWATER Co, 11 Jun 1988 (Bea Vogel/SJK); 5 mi N of Phillipsburg, GRANITE Co, 5 Jul (SJK). Nymphalis californica, E side of Mt Baldy, 6000', 15 mi ENE of Townsend, BROADWATER Co, 8 Jul (Bea Vogel/SJK). Coenonympha ochracea, Bear Paw Mtns, S of Havre, HILL Co, 28 Jun; Lost Horse Rd, RAVALLI Co, 19 Jun (both SJK).

MOTHS: No reports.

WYOMING. Contributors: BFC, CDF, PAO, RAR, PJS, ADW. It was a much better season than 1988, with abundant moisture; most species were more on time, about 2 to 3 weeks later than a year earlier. CDF found dry conditions in Albany Co in July.

BUTTERFLIES: About 132 records were received, of which 30 are reported here. There were 25 county records, involving 23 species, and a few range extensions. WY now has 88.25 avg spp/Co, compared with 83.25 in 1986. Erynnis icelus, jct FR 075 and E Fk of Smith's Fk Rvr, Wasatch NF, 8100', UINTA Co, SW, 12-13 Jun (CDF). E. afranius, Cabin Crk Cg, 8000'-9000', BIG HORN Co, 26 June (RAR). Pyrgus ruralis, Tyrrell Rgr Station, BIG HORN Co, NE, 27 to 29 Jun (RAR). Hesperia juba, Cabin Crk Cg, 8000'-9000', BIG HORN Co, 26 Jun (RAR). Amblyscirtes oslari, 8 mi S of Cheyenne, LARAMIE Co, SE, 17 Jun (PAO). Papilio rutulus, near Shell, BIG HORN Co, 24 Jun (RAR). P. multicaudatus, Tyrrell Rgr Station, BIG HORN Co, 27-29 Jun (RAR). Euchloe olympia, 8 mi S of Cheyenne, LARAMIE Co, SE, 17 Jun (PAO). Colias alexandra, two white females taken, (rare in this area), Sand Lake Rd, 8900', near North Fork Cg, Albany Co, 14 and 17 July (CDF). C. scudderii, unusually common, with 29 other species, Sand Lk Rd, 8900', near North Fk Cg, Snowy Rg, Albany Co, 14 and 17 July (CDF). Phoebis sennae, an extremely rare species in WY, Kelly, GTNP, TETON Co, WEST, 8 July; Norris Junction, YELLOWSTONE NP, NW, 6 Jul (both BFC). Eurema mexicana, Shadow Mtn, GTNP, TETON Co, WEST, 8 Jul (BFC). Nathalis iole, Teton Science School, near Kelly, GTNP, TETON Co, WEST, 8 Jul (BFC). Lycaena hylus, near Shell, BIG HORN Co, 24 Jun (RAR). Satyrrium titus, Joffee Lk, YELLOWSTONE NP, 6 Jul 1985 (fide BFC). Callophrys species (nearest to affinis), E of Laramie, T15N, R73W, Albany Co, 10 to 13 Jul (CDF) (CDF now has about a dozen specimens of this population, which may be intermediate between affinis and apama, and he is in a better position than anyone else to study them; I look forward to reading some conclusions about this!). Mitoura spinetorum, Tyrrell Rgr Station, BIG HORN Co, 27 to 29 Jun (RAR). Incisalia eryphon, Tyrrell Rgr Station, BIG HORN Co, 27-29 Jun (RAR). Celastrina argiolus, Purple Mtn, YELLOWSTONE NP, NW, 4 Jul (BFC). Boloria eunomia, Tyrrell Rgr Station, BIG HORN Co, 27-29 Jun (RAR). Polygonia faunus, Tyrrell Rgr Station, BIG HORN Co, 27-29 Jun (RAR). Nymphalis californica, GTNP, TETON Co, early Jul to Sep (BFC). Vanessa carve annabella, common (up to 30/day), East Fk Field Station, Fremont Co, late Aug - early Oct (BFC). Basilarchia archippus, Tyrrell Rgr Station, BIG HORN Co, 27-29 Jun (RAR); S Piney Crk, 1 mi S of Big Piney, SUBLETTE Co, 15 Jul (PJS). Oeneis jutta, Tyrrell Rgr Station, BIG HORN Co, 27-29 Jun (RAR). O. uhleri, Tyrrell Rgr Station, BIG HORN Co, 27-29 Jun (RAR). Danaus plexippus, near Shell, BIG HORN Co, 24 Jun (RAR).

MOTHS: All but 1 of the few data received were from BFC. Their group found numbers of most species up strongly from 1988, thus they reported many of the same species as in that year. Only additional information is presented here. Apantesis blakei plus several other members of that genus, common in Fremont Co (BFC). Cossus undosus, YNP, Teton and Fremont Counties (BFC). Hyalophora gloveri, last instar larvae on Ceanothus, 11 mi S of Jackson, Teton Co, 2 Aug 1988 (ADW). Paonias myops, Moose, GTNP, TETON Co, WEST, 29 Jun; Mammoth Hot Spgs, YELLOWSTONE NP, NW, 22 Jul (both BFC).

UTAH. Contributors: LDB, CDF, RHL, RCM, PJS. PJS reported an unusually dry, hot and early season in southern UT, and CDF found most species down in numbers.

BUTTERFLIES: About 127 total records were received, of which 23 are reported here; there were 20 county records and 2 state records, involving 13 species, plus a few range extensions. I now show 96.14 avg spp/Co for UT, which is almost back to the 98.51 I showed in 1986, before CFG asked me not to use his numbers but only the ones based on data in hand here. His number is unknown to me (it could be published in Utahensis), but is probably competitive with neighboring NV (102.29 thru 1988) and CO (100.57). Thorybes mexicana, Bountiful Peak, DAVIS Co, 8 July; ridge above Middle Cn, Oquirrh Mtns, TOOELE Co, 3 Jul 1982; Hwy 39 nr Monte Cristo Summit, WEBER Co, 7 July (all PJS). Hesperia uncas, Nine Mi Cn, DUCHESNE Co, 22 Aug 1983; Hwy 128 nr Big Bend, GRAND Co, 3 Sep 1983; Otter Crk, 12 mi S of Koosharem, PIUTE Co, 29 Jul (all PJS). Polites sonora, Otter Crk, 12 mi S of Koosharem, PIUTE Co, 29 Jul; Otter Crk, 1 mi NE of Koosharem, SEVIER Co, 29 Jul (both PJS). Papilio bairdii, larvae on Foeniculum vulgare, Magna, Salt Lake Co, 18 Aug (Celeste A Beutler/LDB). Anthocharis sara browningi, Zion NP, Washington Co, 19 March (RHL); this is quite early for browningi, and if the ssp is correct it could be a southward range extension; sara thoosa has been known from lower elevations of Washington Co for many years. Colias pseudochristina Ferris, Bull Allyn Mus 128, 22 May 1989; Forest Trail 8075, N Fk Provo Rvr, Summit Co, 12 Jun (CDF); This new species is not a county or state record, it having been known under a variety of names for decades; it occurs in N UT, ID and extreme SE WA; a specimen in the Denver Museum of Natural History was taken in Summit Co, UT in 1953 (det RES); a potential complication is that CFG apparently described the same insect almost simultaneously; I have not seen his paper, but will pursue this matter diligently over the next few months and hopefully will have a position next year. Lycaena hylus, common near Rumex, Loa-Bicknell area, Rabbit Vy, WAYNE Co, STATE, WEST, major range extension and surprise, 29 Jul - 17 Aug (PJS); PJS promises more study next year, but two old western CO records considered "humbbug" by me may deserve reconsideration! L. rubida, Otter Crk, 14 mi S of Koosharem, PIUTE Co, SW, 17 Aug (PJS). Satyrrium californicum, nr Chicken Spgs, W side of Deep Crk Mtns, JUAB Co, SOUTH, 4 Aug 1982 (PJS). Brephidium exile, his back yard, St George, Washington Co, 22 Dec, LATE (PJS). Dione vanillae, his back yard, St George, WASHINGTON Co, STATE, 1 Oct (PJS); I am unaware of an earlier record, which seems strange; there are over 20 records from CO for this stray, non-breeding species in our states. Speyeria nokomis, Pine Lk Cg, 8200', HIGH, Garfield Co, 3 Aug 1988 (LDB); unspecified locality, PIUTE Co, 29 Jul (PJS). Polygonia satyrus, 0.1 mi S of Utah Lake St Park, UTAH Co, 11 May (LDB). E. zephyrus, Towhead Peak, 10300', SANPETE Co, 8 Aug, larva collected (Brady J Beutler/LDB). Cercyonis pegala, Hwy 62, 1.5 mi S of Koosharem, PIUTE Co, 29 Jul, [this may be SOUTH, but there are two old records from further south that require comment; first, there is my own (RES) record of two males and 1 female (as Minois ariane) taken in Cedar Cn, Iron Co, 1 Aug 1965; they were spread and deposited in the collection of a friend in California, where they were subsequently destroyed by Dermestids, but I will stand by my determination; the other old record is from even further south, in Washington Co, a specimen in the USNM (Smithsonian) determined by PAO; it is REALLY an old specimen, from the stagecoach days, but I have misplaced the data; if PJS or CFG tells me that there is no suitable habitat for pegala in that county, and wasn't a hundred years ago either, then I will consider the specimen to be mislabeled and erase my dot]; Otter Crk, 1 mi NE of Koosharem, SEVIER Co, 29 Jul; Ibapah, TOOELE Co, 10 Aug 1982 (all PJS).

MOTHS: Of 47 records received, 41 are reported here; there may be many county records, and perhaps state records, but only the ones so indicated by RCM are shown as new. All contributors except LDB sent moth data, so the following list is one of the largest published in the Summary; thanks to all! Acleris nigrolinea, Capitol Reef NP, Wayne Co, 21 Mar (RHL). Apantesis proxima, Crouse Cn, Daggett Co, 10 Aug (CDF). A. williamsi, abundant, Forest Trail 8075, N Fk Provo River, Wasatch NF, Summit Co, 8 Jul (CDF). Catocala semirelictica, plus the other 2 C. species reported last year, Crouse Cn, Daggett Co, 10 Aug (CDF). Engelhardtia ursina, Moab, Grand Co (black light attracted 44 moths and 2 carloads of police!), 22 Mar (RHL). Eupithecia morensata, Blanding, San Juan Co, 23 Mar; Capitol Reef NP, Wayne Co, 21 Mar (both

RHL). E. adequata, Mexican Hat, San Juan Co, 24 Mar (RHL). Glaucina eureka, loxa and ochrofuscaria, Springdale, Washington Co, 19 Mar (RHL). Grammia nevadensis, Pickleville, SW of Bear Lk, RICH Co, 3 Sep (RCM). G. virgo, Provo, Utah Co, second state record, 25 July (RCM). G. virguncula, Pickleville, SW of Bear Lake, RICH Co, 3 Sep (RCM). G. williamsii, Rilda Cn, 1.7 mi from Huntington Crk, EMERY Co, 3 Jun (Stephen W Sommerfeld/RCM). Grapholita flunatana, Zion NP, Washington Co, 19 Mar (RHL). Hemileuca eglanterina, Big Mtn, 5 mi SE of Enterprise, Washington Co, 13 Aug (PJS). H. neumoegeni, Hwy 128 nr Big Bend, Grand Co, 2 Sep 1983 (PJS). H. nuttalli, larvae on Rosa woodsii, Stout Cn, Kane Co, May 1987; adults, same place, Jul 1988; W side of Onaqui Mtns, Tooele Co, 16 Aug 1979 (all PJS). Homoglaea variegata, Blanding, San Juan Co, 23 Mar (RHL). Hypercombe permaculata, Dalton Spgs Cg (nice place--I've been there!), 5 mi W of Monticello, SAN JUAN Co, no date (RCM). Hyphantria cunea, Fruita, WAYNE Co, 27 June (Richard W Baumann/RCM). Hypoprepia inculta, Oak Crk, 2.5 mi N of Fairview, SANPETE Co, 24 Jul (RCM). Lasionycta perplexa, Forest Trail 8075, N Fk Provo Rvr, Wasatch NF, Summit Co, 8 Jul (CDF). Lathosea spauldingi, Blanding, San Juan Co, 23 Mar (RHL). Litholomia napaea umbrifasciata, Blanding, San Juan Co, 23 Mar (RHL). Lithophane torrida, Blanding, San Juan Co, 23 Mar; Capitol Reef NP, Wayne Co, 21 Mar (both RHL). Lobocleta griseata, Blanding, San Juan Co, 23 Mar (RHL). Lophocampa maculata, Dalton Spgs Cg, 5 mi W of Monticello, SAN JUAN Co, no date (RCM). Loxostege new species nr identalis, Moab, Grand Co, 22 Mar (RHL). Lycomorpha splendens, Big Cottonwood Cn, Salt Lake Co, 5 Aug (David C Hawks/RCM). Scotoگرامma (two undetermined species), Mexican Hat, San Juan Co, 24 Mar (RHL). Smerinthus cerisyi, Forest Trail 8075, N Fk Provo Rvr, Wasatch NF, Summit Co, 8 Jul (CDF). Sphinx vashti, same data (CDF). Syneda adabrata, same data (CDF). Yermolia perplexata, Blanding, San Juan Co, perhaps EAST, 23 Mar (RHL).

COLORADO. Contributors: BFC, ND, TSD, CDF, MSF, JM, PAO, JAS, RES, ADW. Conditions were normal on the east slope, but dry on the west; numbers of most species were normal, as were flight periods. As in 1988, very few stray species were observed.

BUTTERFLIES: We received 187 total data, including 10 county records and a couple of range extensions. The state now has 100.57 avg spp/Co, compared with 99.08 in 1986; it will take decades and much work to reach the projected # of 106 avg spp/Co. Erynnis martialis, Ralston Butte, Jefferson Co, 14 Aug, VERY LATE (JAS). Ancyloxypha numitor, common, Carrizo Crk, Baca Co, 17 Jun (MSF). Yvretta rhesus, Box Elder Crk, DOUGLAS Co, 2nd Denver region record, 6 May (MSF). Hesperia comma ochracea, Clear Crk Cn, Jefferson Co, 8 Oct, LATE (ADW). Polites peckius, Lafayette, Boulder Co, 14 Oct, LATE (BFC). P. sabuleti, common, Barr Lk, Adams Co, 26 May, EARLY and establishing the long-suspected bivoltinism of this colony (MSF). P. sonora, det RES, 6 mi S of Victor, FREMONT Co, 19 Jul 1987 (ND). Euphyes bimacula, oviposition on Carex nebraskensis, reared to pupae (see follow-up next year!), Ft Collins, Larimer Co, 5 and 9 Jul (JAS). Battus philenor, Little Blue Mtn, 9000', PARK Co, 27 Jul (ADW). Papilio bairdii form "brucei", nr Limon, ELBERT Co, an unusual prairie record, 7 Aug; Ralston Butte, Jefferson Co, 14 Aug (both JAS). Pontia protodice, Midway, El Paso Co, 19 Nov, LATE (ADW). Nathalis iole, Midway, El Paso Co, 5 Dec, LATE (surpassing a real classic record from F Martin Brown, El Paso Co, 3 Dec 1954) (R Twarkius/ADW). Lycaena hylus, 1-2 mi E of Ft Garland, COSTILLA Co, WEST (see Utah!), 12 Aug (MSF). L. helloides, S end of Nee Grande Resvr, KIOWA Co, 8 Oct (PAO, RES); Powderhorn ski area, 8100', MESA Co, 9 Jun (ADW). Celastrina argiolus, Wellington Lk, Jefferson Co, 2 Sep, VERY LATE (ADW). C. humulus J A Scott, new species nr C. neglecta-major, Wheat Ridge, Jefferson Co, first plains record, 11 Jul (JAS). Glaucopsyche piasus, Hayden, ROUTT Co, 6 Jul (JAS). Plebejus saepiolus, several seen, Green Mtn, 6000' (relatively LOW, but I once saw several in PAO's back yard in Ft Collins, 5000'), Jefferson Co, 22 Jun (JAS). Speyeria cybele charlotti, common, nr Paonia Resvr, Gunnison Co, 25 Jul (MSF). S. aphrodite ethne, as S. a. byblis by MSF (he may be right, but all material I have seen from CO is ethne), near Paonia Resvr, Gunnison Co, 25 Jul (MSF); Forest Rd 545 at junction with Little Taylor Trail, San Juan NF, MONTEZUMA Co, SW, 9 Aug (CDF). Euphydryas anicia capella, very abundant in the foothills of Jefferson Co, where it apparently feeds on an introduced plant (JAS). Phycoides tharos, 1 worn male, N of Bear Creek Resvr, Jefferson Co, 20 Sep, always rare in the Denver area (JAS). Vanessa carve annabella, hundreds seen from Aug to 11 Nov, LATE, Lafayette, Boulder Co (BFC); Vail, EAGLE Co, 24 Sep 1988 (ADW). Basilarchia archippus, Cherry Crk Resvr, Arapahoe Co, 7 Oct, LATE (ADW). Satyrodes eurycle, purposefully introduced colony (from Larimer Co, CO) in Jefferson Co survived the winter and flew for two weeks (JAS); I still have not included Jefferson Co in the range of this species, but will follow developments.

MOTHS: 5 contributors sent 38 data, of which 35 are reported here. BFC reported that the Euproserpinus wiesti colony in Weld Co is doing fine. TSD sent 26 records for Noctuidae, and now shows 532 species in Colorado! Here is his 1989 list. Zale minerea, Morgan Co, May (Jack Odor/TSD). Catocala violenta, Garfield Co, Jul. Abrostola urentis, Morgan Co, Aug. Pseudeva purpurigera, Garfield Co, Jul. Autographa biloba, Morgan Co, May (Jack Odor/TSD). Apamea unita, Grand Co, Jul. A. burgessi, Morgan Co, Sep 1988. A. exulis alticola, Grand Co, Jul 1985. Hyppa xylinoides, Grand Co, Jul. Spodoptera frugiperda, Morgan Co, Aug. Stibadium dimidiata, Jefferson Co, Aug. Plagiomimicus pityochromus, Morgan Co, Aug. Pseudoglaea olivata, Grand Co, Aug 1987. Cucullia speyeri, Morgan Co, May (Jack Odor/TSD). C. omissa, Garfield Co, Jul. Copicucullia antipoda, Grand Co, Jun 1988. C. eulepis, Jefferson Co, Jun 1988. Discestra castrae, Grand Co, May 1987. Scotoگرامma submarina, Mesa Co, May 1988 (Jack Odor/TSD). Lacinipolia naevia, Grand Co, Jul. L. implicata, Jefferson Co, Aug. Mesembraqurotis ruckesi, Morgan Co, STATE, Aug. Euxoa vallus luteosita, Grand Co, Jul. Setagrotis amia, Garfield Co, Jul. Abagrotis variata, Grand Co, Aug. Erythrocia suavis, Morgan Co, Aug. TSD thanks Don Lafontaine, John Franclemont, Tim McCabe and Robert Poole for their assistance with determinations. CDF found Arctia caja at UV light, Forest Rd 545 at junction with Little Taylor Trail, San Juan NF, Montezuma Co, 2 Aug. JM and Steve Stone found the following species in Mesa Co, 2 Aug, Arctia caja, A. parthenice, Catocala aholibah, C. ilia zoe, C. verrilliana. JM also found 5th instar larvae of Hyalophora gloveri on Purshia tridentata, 10 miles W of Poudre Park on Hwy 14, Larimer Co, 4 Aug. PAO and RES found Hemileuca nevadensis common in Limon, Lincoln Co, 9 Oct. ADW found H. nevadensis in Ft Morgan, Morgan Co, 1 Oct 1988.

NEW MEXICO. Contributors: SJC, CDF, MSF, GSF, RLL, RHL, KR, JAS, RES, ABS, PMT, JPT, ADW. The large number of contributors reflects the fact that the 1989 Lepidopterists' Society meeting was held in Albuquerque. Most observers found butterfly numbers (both species and individuals) down, with collecting before and after the meeting hampered by rainy weather, but moth collecting was excellent. SJC spent the whole season in NM, however, and he obtained many new butterfly records.

BUTTERFLIES: 185 total data were received, of which 55 are reported here (50 species); there were 22 county records, involving 18 species, including one state record and one confirmatory state record. Some records are range extensions, although none are dramatic, and there are many early and late records. NM now has 103.88 avg spp/Co, compared with 100.64 in 1986, not surprisingly the highest average in Zone 4. We heard at the Albuquerque meeting that the long-expected Toliver et al. paper on NM butterflies should be published soon. Coqia hippalus, Rock Hound St Park, Luna Co, 22 Sep, LATE (SJC). Chiomara asychis georgina, Guadalupe Cn, Peloncillo Mtns, HIDALGO Co, STATE, NORTH, 10 Oct (KR). E. brizo burgessi, Cooke's Rg, Luna Co, 12 Mar, EARLY (SJC). E. horatius, Cn de la Presa, Rio Arriba Co, 26 Aug, LATE (SJC). E. persius, Tajique Cn and Fourth-of-July Cg, Manzano Mtns, TORRANCE Co, 26 Jul (RLL). Pyrgus centaureae, Touch-Me-Not Peak, COLFAX Co, 30 Jun (SJC). Pholisora catullus, Cooke's Rg, Luna Co, 12 Mar, EARLY (SJC). Ancyloxypha

Society's Annual Meeting.

I wish I could say that doing so has made me a perfect presenter; it hasn't. But it has helped me improve, so I am sharing the list with the rest of the membership in hopes that it will help others as well. All of the suggestions below grew out of direct observations at meetings; well over half of them were repeated at the Society's annual meeting in Albuquerque last year.

BEFORE THE PRESENTATION:

1. Volunteer (or accept invitations) to speak only when you have something of interest to say.
2. Know the level of sophistication of your audience and design your talk accordingly.
3. Allow adequate time before the presentation to prepare appropriate slides or other visual aids.
4. Make your slides (or other projected material) effective:
 - a. choose or make slides that are easily read in a large room or auditorium
 - slides: typed letters are usually too small and too light to be seen (use large dark letters, e.g., transfer letters, a lettering set, or the expanded fonts of desk-top publishing software)
 - overheads: direct transfers from the printed page are usually too small to be legible
 - b. if you must show tables of data (not recommended), make them simple with large numerals
 - c. graphs should have easily discernable lines; be sure to label all axes
 - d. black slides with white lettering or lines are not easily read
 - e. make sure it is physically possible to focus your slides
 - f. mark slide casings so they may be easily placed in the right order and orientation after the projectionist drops them on the floor
 - g. slides should be free of dust and fingerprints (how many times have you seen slides that looked like Junior played with them in the sandbox before the meeting?)
 - h. slides should be labeled as to subject and should have your name on them
5. Make sure appropriate projection equipment is available to accommodate your slides, overhead transparencies, films, or videotapes. Discuss your presentation and media needs with the projectionist (or moderator) before the talk to make sure you know how to control the room lights, remote control for the projector, microphone, etc.
6. Organize your talk according to a clear and simple plan:
 - one or two central ideas
 - supporting data only
 - don't confuse the issue with too much data or too many ideas
 - don't spend too much time talking about future research plans
7. Carefully time your delivery so that you do not exceed your allotted time.
8. If possible, present your talk to colleagues or friends and ask them to critique your content, delivery, and timing.

DURING THE PRESENTATION:

1. Don't apologize at the beginning for inadequate preparation or for presenting a poor paper (if it's bad, your audience won't need you to tell them).
2. Speak slowly, clearly, and loud enough for all to hear (HINT: plant a friend in the back of the room to signal you to speak louder if necessary). Avoid a monotone; use appropriate inflection.
3. If you speak from notes, make sure they are complete and in order (number cards or sheets clearly). Don't make a big production of flipping note cards or turning pages. If a sheet turns up missing during your talk, look on the floor. If you can't find it, continue as best you can—without excuses (and promise yourself to be less dependent on notes next time).
4. When showing slides:
 - a. try to show all the slides in one (preferably) or two groupings (avoid turning lights and projector on and off several times), but...
 - b. avoid leaving the audience in the dark for long periods with a slide no longer appropriate to what you are talking about

- c. explain completely all slides—even those that seem obvious to you. Explain axes of graphs and point out important points in photographs, maps, or charts. Avoid using complex slides that illustrate several points, of which you only refer to one.
5. If you tell a joke, make sure it's funny—and appropriate both to your audience and to the subject of your talk.
 6. Don't tell too many jokes.
 7. Don't try to do too many things at once (e.g., hold a pointer, hold a microphone, hold a remote control, turn your notecards, talk, pace, etc.)
 8. If you are afflicted with irritating or distracting mannerisms (such as scratching your head or other parts of your body, tapping your fingers, pacing, etc.), try to eliminate them before the presentation (HINT: write the offending habits on a notecard and read it just before you take the podium).
 9. Avoid jargon (for example, "*this specious congruence of orthogonal interstices is a conundrum*")
 10. Try to avoid situations that lead you to make statements like the following:
 - a. "*If you don't mind, I'll read this—in case I forget what I had planned to say.*"
 - b. "*I guess I should have had this slide on before the last one.*"
 - c. "*I could've sworn that slide was in right side up.*"
 - d. "*You don't have to memorize this table (which is faint and the numerals tiny and numerous); I just want you to notice the trend in this column.*"
 - e. "*I would like to apologize for the poor quality of these slides.*"
 - f. "*I guess you can't read this slide, but the actual numbers aren't important anyway.*"
 - g. "*This is probably the world's worst slide.*"
 - h. "*Oh. Sorry. I've already read that, haven't I?*"
 11. At the end of the seminar, try to close with a minor flourish or at least a clear-cut concluding statement. Don't be caught explaining to a blank audience: "*I guess that's all I wanted to say.*"
 12. Finish on time—or better yet, early. Leave ample time for questions. (HINT: Surprise your moderator—before the talk ask him or her to signal you when your time is almost up so that you can conclude in a punctual and graceful manner.)

AT THE END OF THE PRESENTATION:

1. Repeat (verbatim or in paraphrase) clearly to the audience any question asked before you answer it. Avoid talking only to the questioner (and ignoring the rest of the audience).
2. Answer questions briefly and to the point to allow as many questions as possible. (A long rambling answer is either inconsiderate or signifies insecurity.)
3. Try to anticipate questions before the presentation so you will have some idea of how to respond; but don't give a Watergate response (i.e., a standard answer regardless of the question).
4. Don't stumble or fall when leaving the podium.

Boyce A. Drummond

LOCAL QUEBEC SOCIETY ACTIVE

The Association des Entomologistes Amateurs du Quebec in Canada boasts of 200 members. They publish (in French) a quarterly journal named "Fabriques" (in honor of J. H. Fabre), and also publish a newsletter called "Nouv'ailes" (news in French with "ailes" meaning wings) six times a year. The president of the organization is Yves-Pascal Dion, 3 St. Charles, Pont Rouge, Quebec G0A 2X0, CANADA, a recently reinstated member of the Lepidopterists' Society.

NEW MINNESOTA BUTTERFLY CLUB NEEDED

Six or eight years ago the Association of Minnesota Entomologists disbanded. I am interested in starting a new Butterfly Club for Minnesota. Anyone who has an interest in butterflies and/or moths may join. Goals of the Club are to

collect, photograph, identify, study and learn about butterflies and moths. It is not required that one collects specimens and persons of any age may participate. The Club will encourage interest in and appreciation for Nature. The Club will conduct local and statewide field trips. I have some very exciting and unique field trips planned for the upcoming spring, summer and fall seasons. Persons interested should contact Gary Pechan, Box 98, Savage, Minnesota 55378 or phone evenings (612) 895-5657.

IDALIA SOCIETY GROWING

The Idalia Society of Mid-American Lepidopterists held its Spring Meeting on March 3, 1990 at the Camp Lake of the Woods Lodge in Swope Park, Kansas City, Missouri, with 52 persons present. A delicious pot-luck supper was followed by an interesting slide presentation on Butterfly Gardening by the President, Richard Heitzman. Mr. Heitzman also gave free seeds of many plants attractive to butterflies to all who wanted them. An innovative part of the meeting was a separate Kids Korner for the youngsters with specimens available to help those interested in starting collections as well as instruction in spreading techniques by young Nathan Schaeffer. The Kids Korner will be a regular feature of future meetings. Following a short business meeting in which plans were discussed for summer activities (field trips, picnics, etc.), an auction of donated butterfly prints and assorted specimens was held to build up the treasury.

The next regularly scheduled meeting will be in early September at the Camp Lake of the Woods Lodge, and all members will be notified well in advance. This coming summer, the Idalia Society has been asked by the Ranger at Missouri's Ha Ha Tonka State Park, in Camden Co, to begin a butterfly survey of the park. This project will be organized by the Society's Steering Committee and the next newsletter will contain more details.

The Idalia Society is open to all who are interested in the lepidoptera. Membership applications may be obtained from the Secretary, Suzette Slocumb, 219 W. 68th Street, Kansas City, Missouri 64113 or from the Treasurer, Eleanor Casebolt, 5600 E. Gregory, Kansas City, Missouri 64123.

NEW ACQUISITION FOR BC MUSEUM

The Royal British Columbia Museum (formerly the British Columbia Provincial Museum) located in Victoria, British Columbia, Canada recently acquired a collection of 6792 butterflies and moths from Gerald Straley. Gerald grew up in Virginia, and is at present working in the Botanical Gardens of the University of British Columbia, Vancouver, BC. His collection consists primarily of butterflies, but is also strong in Arctiids. The specimens were 74% from USA, 18% from Canada, and 9% from other localities. The states with over 99 specimens were Virginia, California, Florida, Colorado, Arkansas, Wyoming, and Oregon (in descending order of number of specimens). The Canadian provinces with over 99 specimens were British Columbia, Alberta, Newfoundland, and Prince Edward Island. There were 1726 Hesperidae, 1629 Lycaenidae, 1114 Nymphalidae, 779 Pieridae, 633 Satyridae, 366 Arctidae, 203 Papilionidae, and the remainder are from seventeen other families. A total of 587 species and many more subspecies are included in the unidentified specimens. There are also a small number of unidentified specimens (mainly non-Arctiid moths and "exotics").

The specimens have all been catalogued and the collection data computerized on the Canadian Heritage Information Network (CHIN) based in Ottawa. The collection data will be utilized in the books on BC and Alberta butterflies which are currently being written. The Straley collection is a valuable addition to the RBCM entomology collection, providing much needed balance to the small existing butterfly collection (5200 specimens) which consists of specimens primarily from southwestern British Columbia.

Chris Guppy,
Biological Collections Section

THE LEPIDOPTERA COLLECTION OF THE CHICAGO ACADEMY OF SCIENCES

The lepidoptera collections of the Chicago Academy of Sciences have recently been reorganized in an effort to make the specimens more useful and accessible to the scientific community. The collection has been placed in new cabinets and drawers, and it is hoped that within the next two years the entire collection will be catalogued on a computerized data base. In the meantime it was thought prudent to publish a brief paper detailing several important aspects of the collection.

The Chicago Academy of Sciences has a long history of entomological research. In 1869 the Academy published its first paper on insects, a list by Samuel Scudder of the butterflies of Iowa (Scudder 1869). In the same year the Academy purchased for \$2000 the state collection of insects from the heirs of Benjamin D. Walsh, formerly the State Entomologist of Illinois. This meticulously-labeled collection, at the time the largest private collection in the country, encompassed 30,000 specimens, including many types (Walsten 1974). By 1871 the Academy possessed 15,000 species of insects and arthropods. This magnificent collection, along with everything else in the Academy, was destroyed by the great Chicago fire in October of 1871.

A major step in rebuilding the insect collection came in September of 1894, when a group of Academy members requested permission to organize a section of entomology. This group began meeting at the Academy in 1895 and contributed many specimens to the collection. The bulk of this early collection was contributed by John L. Healey. Two years later the group became the Chicago Entomological Society, with Oliver S. Prescott named as the first president. In 1903 this organization again became associated with the Academy, where it prospered for many years. The early membership included John A. Comstock, William Gerhard, William M. Wheeler, Joseph L. Hancock, A. L. Melander, W. E. Longley, Arthur J. Snyder, Emil Beer, Henry Bird, and A. B. Wolcott. The last was named honorary curator. This organization was particularly active until about 1912. Field meetings were held twice a year, and by 1908 membership totaled 35 (Wyatt 1941). In 1907 the Entomological Society of America met in Chicago, and nearly all of the local members participated in the meetings. During these years the Academy acquired many specimens from O. C. Poling, a few from William Barnes, and many from Jemez Springs and Fort Wingate, New Mexico, these latter probably collected by John Woodgate (F. M. Brown, in lit.). Later, many specimens were acquired from Alex K. Wyatt, though the bulk of his collection went to the Field Museum.

The next major collection donated to the Academy was a suite of specimens collected by Berthold Neubarth. Donated by Neubarth's widow in 1911, this important collection embraced over 12,000 specimens - 10,000 lepidoptera and 2,000 coleoptera. Two thirds of the described North American lepidopteran species were represented, and many genera were fully represented. The majority of the collection came from several localities, including Colorado (Leadville, Glenwood Springs, Manitou, Union, and Denver), Utah (Salt Lake City and Ogden), California (Pasadena), Texas (El Paso), and northern Illinois. Unfortunately, major works on the lepidoptera of the Western United States were written without knowledge of this collection.

This collection suffered some depredations over the years. An Academy curator recalled in 1942 a tragic episode: "I remember going through case upon case of insects completely destroyed by neglect ... and in this batch were many type specimens. I burn up every time I think about it." (Ed Komarek to Edward Ford, 11 December 1942, Chicago Academy of Sciences Archives). Fortunately, much of Neubarth's material was spared this fate, and his collection remains a significant one.

The Academy has also acquired the private collections of Leslie Banks and Harry Sicher (in 1987 and 1975, respectively), both enthusiastic midwest lepidopterists. Banks' meticulously labeled and curated assemblage of North American species provides a modern counterpart to the Academy's turn-of-the-century holdings. Unfortunately, Banks' notebooks, and presumably his correspondence, were

discarded before the donation was made. He had traded many specimens from California, bearing labels of John Sperry, J. A. Comstock, and Lloyd Martin. Sperry's determination labels appear on many specimens. Perhaps the greatest strengths of Banks' impressive collection were of Heliothine and Amphipyrrine Noctuids. The latter includes material collected and/or identified by both Emil Beer and Henry Bird. This collection also contains types (see below).

The Harry Sicher butterfly collection consists of beautifully-prepared specimens from Central America, Mexico, and throughout North America, including Alaska. Sicher was particularly careful to procure long series, in some cases numbering in the hundreds.

All of the collections have good data except the earliest specimens, which, as is usual, bear state labels, or in better cases such data as "N. Ill." or "S. Manitoba." Most of the determinations are good, though time did not permit detailed examination or dissection of some of the more difficult groups. Specialists are invited to peruse or borrow these.

The following specimens with type labels were located and appropriately labeled. Not all are authentic types. We had no reason to question the types of Monroe and Bird, which were contained in the carefully curated Banks collection, but the status of the older types was checked against the original descriptions or Todd 1982. The numbers are from Hodges et al., 1983.

- 3885 *Codatractus arizonensis* Skinner 1905, four specimens bearing "co-type" labels, all pseudotypes, as the type series was described by Skinner as "a pair" (Skinner 1905). These are, however, "eutopotypes"; that is, they were a part of the original series collected by O. C. Poling at the type locality. But the series was split and Skinner never saw these specimens. The holotype is in the Carnegie Museum (Miller & Brown 1981).
- 6842 *Plagodis phlogosaria illinoiaria* Munroe 1959, three paratypes.
- 9508 *Papaipema beeriana* Bird 1923, one paratype.
- 9744 *Stibadium manti* Barnes 1904, one specimen bearing a "co-type" label, probably a paratype. The size of the type series was not specified by Barnes, but the phrases "in some specimens" and "in most specimens" indicate that there were at least several (Barnes 1904).
- 10612 *Nelucania niveicosta* Smith 1902, one specimen bearing a "co-type" label is a pseudotype. The five specified types are all accounted for elsewhere (Todd 1982).
- 11094 *Schinia carminatra* Smith 1903, one specimen labeled "co-type" is a pseudotype. The four types are in the American Museum of Natural History (Todd 1982).
- 11095 *Schinia indiana* Smith 1908, one "co-type" could be an authentic paratype. Smith's original nineteen were not all located by Todd, nor were their dispositions indicated by Smith (Todd 1982).

A few labeling errors were noted in the core and Neubarth collections: a specimen of *Carterocephalus paleamon mandan* (W. H. Edwards) bearing a label "Colo." is with Manitoba specimens, and is probably from the latter locality; *Chlosyne palla* (Boisduval) and *Boloria eunomia ?alticola* Barnes & McDunnough from the Pikes Peak area, Colorado, are probably mislabeled from Glenwood Springs and Leadville, respectively. Two specimens of *Boloria titania helena* W. H. Edwards bearing Arizona labels and dated "7/9/1900" were collected by "H.K.B." These would represent an unlikely range extension, but might bear looking into.

The authors here express their heartfelt thanks to Dr. Paul Heltne, Director of the Chicago Academy of Sciences, for inspiration and financial support of this effort. It was he who recognized the value of the long-neglected collection and procured the considerable funds to organize and house it in state-of-the-art facilities. Ron Leuschner spent two days in Chicago checking and correcting determinations of many specimens, especially geometrids and noctuids. His experience with western moths was invaluable. We are also grateful to Mary Hennen and John Linsner for their hours of pinning, label-cutting and computer data entry.

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- Miller, Lee D., and F. Martin Brown. 1981. A catalogue/checklist of the butterflies of America north of Mexico. *J. Lepid. Soc.*, Memoir No. 2.
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- Skinner, H. 1905. A new *Megathymus* from Arizona (Lepidoptera, Rhopalocera, Hesperiiidae). *Ent. News* XVI (7): 232.
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- Walsten, David M. 1974. Darwin's Backwood's Correspondent. *Field Museum of Natural History Bulletin* 45 (1): 8.
- Wyatt, Alex K. 1941. The Chicago Entomological Society. *Chicago Naturalist* 4(2): 8.

Samuel A. Johnson
Field Museum of Natural History
Ronald S. Vasile
Chicago Academy of Sciences

From The Editor's Desk

June Preston



My calendar says it is spring, and already, despite below freezing temperatures, I am anxious to get out into the field after butterflies. Some of you have already put several collecting excursions behind you for 1990, while others will have to wait even longer than I will for the first butterflies or moths of the season to take wing, but can be satisfied with accomplishing spreading and/or curating chores and planning for the summer. I have some overwintering pupae still waiting to emerge in our guest room, plus some *Megathymus* larvae and pupae, found this past March in Texas, that have been emerging by ones and twos every few days ever since we gathered them. I was fortunate enough to be able to watch one specimen's antennae break through the pupal case and then to observe its total emergence. I had always thought that the wings were moved back and forth to pump the fluid into the veins, but this fellow just sat still while his wings slowly expanded, and he did not move his wings at all during the time I watched him. Not until after he had climbed up the side of the rearing cage, and I had disturbed him with my finger, did he flutter his wings briefly. What a thrill this was for me to see, for the first time, the whole emergence process take place right before my eyes!

It has come to my attention lately that many of our older, long time members are not aware that the Society has a classification of membership called "retired status." The qualifications necessary for this status are set forth in the By-Laws, Section I, Article 11. The Constitution and By-Laws are found as an insert in the center of the latest Membership Directory. If you are considering dropping your membership because of age or financial difficulties, try "retired status" instead, and you will probably be glad you did.

Notices



LOST MEMBER

Kenneth R. Moore, formerly of Huntsville, Texas has

been a member since 1984. Does anyone know his new address? Please notify Julian Donahue, Assistant Secretary. Address on back page.

CONSTITUTIONAL AMENDMENT NOTICE

The following amendment to the Constitution of the Lepidopterists' Society was proposed and endorsed at the Annual Meeting of the Executive Council in July 1989. This printing constitutes the required 3 month advance notice to the membership prior to the mail ballot on the question, at the end of this year.

The article for which amendment is proposed has to do with ultimate dissolution of the Society. Dissolution is neither imminent nor contemplated, but the original article was rather rigid in its wording. The change will increase flexibility without altering the original intent. The original article, below, would be replaced in its entirety by the proposed new article:

~~"ARTICLE XIII: Section 1. Upon final dissolution or liquidation of the Society, all of its assets and properties remaining after payment of all outstanding liabilities shall be assigned, transferred and paid over as follows: The American Museum of Natural History, Central Park West at 79th Street, New York, New York 10024, and the California Academy of Science, Golden Gate Park, San Francisco, California 94118.~~

~~"If any of the named organizations no longer qualify for exemption under Section 501 (c) (3) of the Internal Revenue Code, or are not in existence, or are unable or unwilling to accept such assets, such properties and assets shall be distributed to such organization or organizations organized and operated exclusively for charitable and educational purposes as shall at the time qualify as an organization or organizations exempt under Section 501 (c) (3) of the Internal Revenue Code of 1954 (or corresponding provision of any future United States Internal Revenue Laws), as the Executive Council shall determine."~~

~~"ARTICLE XIII: Section 1. Upon final dissolution or liquidation of the Society, all of its assets and properties remaining after payment of all outstanding liabilities shall be assigned, transferred and paid over to one or more educational or scientific organizations which qualify as being organized and operated exclusively for charitable and educational purposes and are considered exempt as defined by Section 501 (c) (3) of the Internal Revenue Code of 1954 (or corresponding provisions of any future United States Internal Revenue Laws).~~

~~"Section 2. From a list of candidate organizations identified as qualified and willing to receive said properties and assets, the Executive Council shall, by a 2/3 majority vote, designate the recipient or recipients and the properties and assets to be given to each, with preference being given to organizations that have been strongly identified with and supportive of the purposes of the Society as herein set forth."~~

William D. Winter, Secretary

PUBLICATION FUNDS SOLICITED

The Xerces Society is planning to publish Lep. Soc. member Harriet Veasie Reinhard's landmark paper, San Francisco Butterflies: Urban Survivors. This paper cites all historical records and gives an assessment of the remaining butterfly habitat. Anyone wishing to donate money for this project can send any amount designated for this purpose to the Xerces Society, 10 SW Ash Street, Portland, Oregon 97204, USA. If a donor, group or organization donates \$500 or more for the project, they will be given special recognition in the issue of "Atala" that will contain this paper.

Harriet Reinhard is a long time member of the Lepidopterists' Society and has been a contributor to both the NEWS and the JOURNAL. She is at present recovering from surgery performed in January and would surely appreciate hearing from some of the many friends she has made through the Society.

SOCIETY PROMOTIONAL BROCHURES AND POSTERS

The Society's beautiful 11x14" promotional color poster has been printed and is being distributed. We wish to make our promotional brochure and membership application more broadly available to the public, in an effort to increase membership. Nature and science centers, and natural history museums, frequently have book or gift shops. These are sites we should like to target.

If you are familiar with such a center or museum in your area, I should appreciate having you send me its name and address, and if possible, the name of a contact person. We shall then be able to send each a copy of the new poster to draw attention to the Society, and a supply of brochures which can be handed out to visitors specifically requesting them. We shall also send them a list of books on lepidoptera, high-lighted for their areas, which they may wish to stock and sell for their own advantage.

Our earlier notices have brought many responses, and we need many more. This is an opportunity for you to help the Society grow.

Dave Winter, Secretary
257 Common Street
Dedham, MA 02026-4020, USA

MEMOIR SERIES EXPANDS; MANUSCRIPTS INVITED

Some members have voiced the need for a Society organ to publish papers intermediate in length between those in the Journal and the present Memoir series. Memoirs have traditionally been book-length contributions.

At the Albuquerque meeting of the Society last July, the Executive Council gave the go-ahead to expand the Memoir concept to include any contribution longer than 30 Journal pages. Papers shorter than 30 pages will continue to be considered by the Journal. Journal concept and operations remain unchanged. Memoirs expansion is meant to supplement the Journal and thereby more fully serve the publication needs of the Society and the lepidopterist community.

No page charges will be levied on Memoirs authors or their institutions. Production of Memoirs will continue to be financed by sales. Authors of accepted Memoirs manuscripts will be expected to prepare camera-ready copy for use by the printer. Such copy must be of high print and format quality, a requirement that can be met satisfactorily with common software on many personal computers.

Memoirs manuscripts may deal with any aspect of Lepidoptera study. Manuscripts and enquiries should be addressed to Memoirs editor William Miller, Entomology Department, University of Minnesota, St. Paul, MN 55108 U.S.A.

A MILESTONE IS REACHED

On 9 March 1990 Clive Pratt of Queensland, Australia, became the 3,000th member/subscriber to be entered into the Society's computerized database since it was created in 1984. The database retains a record for every present or former member, subscriber, and exchange recipient since 1984; it is used to generate mailing labels for Society publications, dues notices, and for rental to commercial customers, and is used every two years to prepare the text and indexes for the Membership Directory. (Deadline for the 1990 Membership Directory is 11 October—all address changes and new/revised lists of interests must be received by Julian Donahue on or before that date to be included in the biennial Directory.)

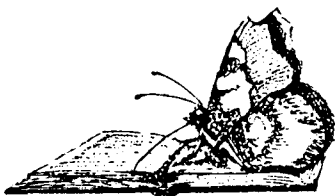
MONARCH FOR NATIONAL INSECT CAMPAIGN

A joint resolution, H. J. Res 411, has been introduced in congress by Congressman Leon Panetta of Santa Cruz, California, designating the monarch butterfly as the national insect. Members of the Society who are in agreement with this promotion should write to their congressmen and senators immediately urging them to support this resolution.

BOOK INFORMATION WANTED

Butterflies of California by John Adams Comstock: DO YOU HAVE A DE LUXE EDITION? I am compiling an inventory of the De Luxe Edition of this book, published by the author in 1927. The De Luxe Edition, identified as such by a specially printed page that is bound after the fly leaf, was stated to be limited to 200 numbered copies, but it is believed that Comstock actually issued fewer than 20 of them. This edition was advertised as "hand illuminated and inscribed by the author"; the "illumination" consists of hand coloring of the decorated title page, the historiated initials, and the tailpieces; the author also signed, numbered, and dated each copy. If you have, or know of, a De Luxe Edition, I would appreciate receiving the following information (your anonymity will be preserved, if desired): Is the copy hand colored? What number is the copy? Is it signed and dated, and what is the date? Is it an "association" copy (formerly owned by a well known person) or otherwise of historical interest? I would also be interested in learning of uncolored and unsigned copies of the De Luxe Edition. Katharine Donahue, History & Special Collections, Biomedical Library, University of California, Los Angeles, California 90024; telephone (213) 825-6940; FAX (213) 206-8675, attn. KES Donahue; Bitnet ECZ5KAT@UCLAMVS.

Books



A REFERENCE GUIDE FOR YOUNG ENTOMOLOGISTS

BUGGY BOOKS: A GUIDE TO JUVENILE AND POPULAR BOOKS ON INSECTS AND THEIR RELATIVES, written by Gary A. Dunn is now available. This unique reference provides information on 736 of the most significant "bug books" written for youths. The guide is invaluable to teachers, parents, naturalists, librarians and entomologists and includes titles, authors, publishers, dates, number of pages and illustrations, ISBN, price, age-appropriateness, contents and quality/usefulness rating. Titles are cross-referenced by subjects, age-appropriateness and authors. To obtain, send \$12.95 US plus \$2.00 shipping and handling to the Young Entomologists' Society, 1915 Peggy Place, Lansing, Michigan 48910-2553, USA.

RECENTLY PUBLISHED BOOKS

- Chinery, M. 1989. New Generation Guide to the Butterflies and Day-Flying Moths of Britain and Europe. #13 in the Corrie Herring Hocks Series (David Attenborough, Series Editor). University of Texas Press, P.O. Box 7819, Austin, Texas 78712, \$22.95.
- Daccordi, M., P. Triberti, & A. Zanetti. 1988. Simon & Schuster's Guide to Butterflies & Moths. (Originally published in Italy as Farfalle). A Fireside Book, Simon & Schuster, Inc., Rockefeller Center, 1230 Avenue of the Americas, New York, NY 10020. 383 pp., numerous color illustrations and 380 color photographs, softcover, \$11.95.
- Henning, S. F. 1989. The Charaxinae Butterflies of Africa. Aloe Books, P.O. Box 4349, Johannesburg, South Africa 2000 (available from Bioquip, 17803 LaSalle Ave, Gardena, CA 90248). 457 pp., over 750 color illustrations, 114 text figures, hardcover, \$240 U.S.
- Johansson, R. et al. 1989. The Nepticulidae and Opotegeidae (Lepidoptera) of North West Europe. E. J. Brill, P.O. Box 9000, 2300 PA Leiden, The Netherlands. 624 pp. in two parts, over 600 line drawings, hardcover, \$110 U.S.

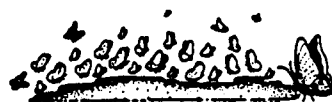
- Kohiyama, K. 1989. White Butterflies. Graphic-sha Publishing Co., Ltd. 1-9-12 Kudan-kita, Chiyoda-ku, Tokyo 102, Japan. Numerous color photographs, hardcover, \$28.95 U.S.
- Otsuka, K. 1988. Butterflies of Borneo, Vol. 1. Tobishima Corporation, 2, Sanbancho, Chiyoda-ku, Tokyo 102, Japan. xx + 61 pp. in Japanese, xix + 62 pp. in English, 80 color plates, text figures, hardcover, price unknown.
- Reissinger, Eduard. 1989. Die geographisch-subspezifische Gliederung von *Colias afacariensis* RIBBE 1905 unter Berücksichtigung der Migrationsverhältnisse (Lepidoptera, Pieridae). Band 26 of Neue Entomologische Nachrichten, Dr. Ulf Eitschberger, Humboldtstrasse 13a, D-8688 Marktleuthen, West Germany. 351 pp., numerous B&W and color plates, DM 145.
- Smith, C. Michael. 1989. Plant Resistance to Insects: A Fundamental Approach. Wiley Interscience, John Wiley & Sons, 605 Third Ave., New York, NY 10158. 286 pp., numerous text figures, hardcover, \$34.95.
- Svensen, P. & M. Fibiger. 1989. The Distribution of European Macrolepidoptera, Noctuidae, Vol. 1: Genus *Euxoa* - *Standfussiana*. Faunistica Lepidopterorum Europaeorum - Noctuidae. European Faunistic Press, Karaveljev 16. 4040 Jyllinge, Denmark. 180 pp., 150 maps, hardcover, 225 DKK.

SWALLOWTAIL POSTER AVAILABLE

"Swallowtails of the U.S. and Canada" is a 2' x 3' full color wall poster published by Windsor Publications, Inc., of Eugene, Oregon. The beautiful paintings of Norma Hodge depict some specimens in conventional spread position, some in more natural resting positions, including under surfaces; both sexes are represented in many instances. The flowers about which the butterflies are clustered are identified and are generally appropriate to the range and flight periods of the butterflies. It is a little disconcerting, however, to see Battus philenor and Papilio brevicauda, which are not sympatric, portrayed about the same cluster of honeysuckle blossoms. A few controversial taxa in the P. polyxenes complex have been omitted. Several, but not all, of the "border" species of Florida and Texas have been included. There is one error in labelling: Pterourus "multicauda" for P. multicaudatus. The poster retails for \$19.95 plus \$2.00 postage and handling. It can be laminated for an additional \$6.50, or framed in oak with a plexiglass front for \$84.95 plus \$5.00 shipping. It should be ordered from Windsor Publications, Inc., 1000 S. Bertelsen Rd., #14, Eugene, Oregon 97402 accompanied by a check or money order. For charge orders, phone 1-800-635-4194.

All in all, this is not only a beautiful production; it is useful for identification as well.

Dave Winter



Forthcoming Meetings

LAST CALL FOR THE LEPIDOPTERISTS' SOCIETY ANNUAL MEETING

The Milwaukee Public Museum will host the 41st Annual Meeting of the Lepidopterists' Society from Thursday, June 14 to Sunday, June 17, 1990, at the museum in Milwaukee, Wisconsin. Please refer to the announcement on page 11 of NEWS #1, Jan/Feb 1990 for details. Late registrations are still being accepted. For further information, contact: Dr. Allen Young or Susan Borkin, Invertebrate Zoology Section, Milwaukee Public Museum, 800 W. Wells St., Milwaukee, Wisconsin 53233, USA. Phone: (414) 278-2758, Fax: 223-1396.

1990 PACIFIC SLOPE MEETING

The 1990 meeting of the Pacific Slope Section of the Lepidopterists' Society will be held at the Malheur Field Station near Burns, Oregon from Friday afternoon, August 3 until the evening of Sunday, August 5, following an all day field trip. Good collecting for this field trip is anticipated in the adjacent Alvord Desert and Steens Mountains. The station facilities will be available for occupancy until noon of August 6 for those wishing to stay over. Western members of the Society will be contacted. Others interested in attending should contact Dr. David McCorkle, Biology Dept., Western Oregon State College, Monmouth, Oregon 97361 or phone (503) 838-8478 for more information.



Research Notice

● WANTED: Living *Chlosyne lacinia* (Bordered patch butterfly) eggs, larvae or pupae, especially individuals parasitized by tachinid flies, for a study concerning the oviposition behavior of tachinid flies attacking *C. lacinia*. Additionally, I would greatly appreciate information about sources of supply or collection sites for *C. lacinia*. Please contact: Barbara Terkanian, c/o Dr. Ronald L. Rutowski, Department of Zoology, Arizona State University, Tempe, AZ 85287-1501. Telephone (602) 965-4019

New Members



AE, SHIGERU A.: Biological Laboratory, Nanzan University, 18 Yamazatocho, Showaku, Nagoya 466, JAPAN.
BEDFORD, JOHN R.: 16 Banff Road, Toronto, Ontario M4S 2V5, CANADA.
BORTH, ROBERT J.: 6926 North Belmont Lane, Fox Point, WI 53217.
BROEKELSCHEN, PETER H.: 3001 Setting Sun Drive, Corona del Mar, CA 92625-1522
BROWER, ANDREW VAN ZANDT: Ecology & Systematics, Corson Hall, Cornell University, Ithaca, NY 14853-2701.
CAUBLE, RONALD L.: 5495 Claremont Avenue, #C, Oakland, CA 94618-1156.
CHOU, TEH-WEI: 6F-2, #230, Sec. 2, Shin-Yi Road, Taipei 10602, TAIWAN, R.O.C.
CRNJAR, ROBERTO (Dr.): Viale Fra Ignazio 38, I-09123 Cagliari, ITALY.
CRUCET, ARTURO: 521 Rosewood, Norman, OK 73069.
DION, YVES-PASCAL: 3 rue St.-Charles, Pont-Rouge, Quebec G0A 2X0, CANADA (President, Association des Entomologistes Amateurs du Quebec).
DOLANSKY, STEPHEN: 311 West Costilla, Colorado Springs, CO 80903.
DOWHOWER, DALLAS: 211 South 5th Street, Lebanon, PA 17042.
FILIATRAULT, J. G.: 4608 De La Fabrique, Laval, Quebec H7C 1C8, CANADA.
GANDARA, CESAR: 571 Fracc. Las Aves, Hermosillo, Sonora 83129, MEXICO.
GILES, VALÉRIE: HCR-71, Box 583, Orbisonia, PA 17243.
GOVER, KEITH (Dr.): 46857 Ann Arbor Trail, Plymouth, MI 48170.
HALVORSEN, RUSSELL: 1707 West Coffman, Casper, WY 82604.
HEGSTED, ERIC: Bag 2200, Watson Lake, Yukon Y0A 1C0, CANADA.
HENDEL, ROBERT C.: Homat Cosmos #102, 7-23 Moto Azabu 3-chome, Minato-ku, Tokyo 106, JAPAN.

KIDDOO, GORDON: 26 Susquehanna Court, Brevard, NC 28712.
KLAFTER, ELIZABETH (Mrs.): 5901 Cherrywood Lane, #304, Greenbelt, MD 20770.
JONES, ROBERT: 680 Calle Entrada, Fountain, CO 80817.
KRAAK, GARY R.: 4633 Harding Road, Kenosha, WI 53142.
LAZAROFF, JERRY: 4080 Nottingham Estates Drive, Saint Louis, MO 63129.
LIEBMAN, DAVID S.: 981 South Quail Street, Norfolk, VA 23513.
LITTLEFIELD, RICHARD J.: 629 Cherrywood Loop, Richland, WA 99352.
LLOYD, BRIAN: 20 Hillery Court, #B-11, York, PA 17402.
MALECKI, JAMES B.: 18119 Docksey, Northville, MI 48167.
McCREADIE, RONALD: 5001 West Winona, Chicago, IL 60630-2319.
MICHAUD, CATHERINE: 26 Peach Highlands, Marblehead, MA 01945.
MIKKOLA, KAURI (Dr.): Dept. of Zoology, University of Helsinki, P. Rautatiekatu 13, SF-00100 Helsinki, FINLAND.
OTERO, LUIS DANIEL (Dr.): Apartado 499, Maracay 2101, Aragua, VENEZUELA.
PECHAN, GARY: Box 98, Savage, MN 55378.
PEITZMEIER, BARBARA: Rural Route 03, Box 104, Bloomfield, NE 68718.
PRATT, CLIVE SHAUN: P.O. Box 618, Cooktown, Queensland 4871, AUSTRALIA.
PRESCOTT, EDWARD A.: 3229 Norcross Road, Erie, PA 16510-4249.
REED, CHIP: 459 Grahamwood Drive, Memphis, TN 38122.
REED, KEVIN (O.D.): 1340 Gladiolas Drive, Winter Park, FL 32792.
REIMER, JIM: R.R. 1, Box 9, Group 18, Steinbach, Manitoba R0A 2A0, CANADA.
RINN, BOZIK: Studnice u Nachoda 25, Psc 54948, CZECHOSLOVAKIA.
SABOURIN, MICHAEL: P.O. Box 608, Colchester, VT 05446-0608.
SCACCIA, BRIAN: 123 Hedy Lane, Davis, CA 95616-4858.
SMITH, RUSSELL L.: Dept. of Entomology, University of Tennessee, Knoxville, TN 37920.
STENDER, JOCK: 143 Tradd Street, Charleston, SC 29401.
STOUT, TODD LEWIS: 2510 West 6255 South, West Jordan, UT 84084.
SWANSON, GREGORY B.: 485 Glen Oaks Drive, #1-D, Muskegon, MI 49442.
TAYLOR, ROBERT T.: 285 Riviera Drive NE, Salem, OR 97303.
VANDERMOOR, ROBERT D.: 6020-B Udy Road, Richmond, British Columbia V7C 2X9, CANADA.
VORNHOLT, TORY (Ms.): 4306 Edgewater Drive, Kennesaw, GA 30144.
WAITE, PETER: The Four Horseshoes, Cockpole Green, Wargrave, Reading RG10 8NT, ENGLAND.
WESTRA, JAMES C.: 9320 South Division, Byron Center, MI 49315.
YOUNG, DAVID H.: 40-2 Wilbur Street, Waltham, MA 02154.

Address Changes



AJILVSGI, GEYATA: correct ZIP Code for new address reported in last issue is 74005-2182.
BACH, SUZANNE G.: P.O. Box 1802, Fernley, NV 89408.
BAKER, DONALD E.: 2640 Beeline Road, Holland, MI 49424.
KLINGLER, MARK A.: Section of Entomology, Carnegie Museum of Natural History, 44400 Forbes Avenue, Pittsburgh, PA 15213-4080
MANTON, TERRY: Flat 3, Bodgara Way, Lake Lane, Liskeard, Cornwall PL14 3BT, ENGLAND.
ORTIZ GARCIA, MANUEL: c/Virgen de la Soledad, 20-A, 4 D, 19003 Guadalajara, SPAIN.
POLLOCK, DAVID: Mississippi Entomological Museum, P.O. Drawer EM, Mississippi State, MS 39762-5667.
PURDUM, DAVID A.: 5232 Roselawn Road, Roanoke, VA 24018.

ROBINETTE, RANDY: 4528 Hatfield Street, Ashland, KY 41101.
 ROSS, DOUGLAS W.: P.O. Box 2811, Boone, NC 28607-2811.
 SHESKIN, EUGENE P.: 2650 Ocean Parkway, #5E, Brooklyn, NY 11235-7749.
 SHUEY, JOHN A. (Dr.): Battelle Great Lakes Environmental Center, 739 Hastings, Traverse City, MI 49684.
 SIBATANI, ATUHIRO (D.Sc., Prof.): 31 Kamotutityoo, Hinooka, Yamasina-ku, Kyoto 607, JAPAN.
 SIMONS, TIM: P.O. Box 123, Rowley, MA 01969.
 SMITH, RUSSELL L.: Dept. of Entomology & Plant Pathology, University of Tennessee, Knoxville, TN 37920.
 MURASE, TAKUHEI (M.D.): 91 Nishi-Heijima, Yatomi, Ama, Aichi 498, JAPAN.
 WILTERDING, JOHN H., III: 2445 Burnt Tree Lane, #6, East Lansing, MI 48823-7108.

CONTACTS WANTED: Having started a long time desire to collect a library of scarce and rare books on Lepidoptera, I am seeking others with the same interest. Would like to correspond with other collectors of books to share information on editions, number of plates per volume, dates of publication, etc. My area of interest covers all periods; both old and modern volumes. Please write! Also want single books or libraries to purchase. Donald E. Baker, 0-2640 Beeline Rd., Holland, Michigan 49424, USA. Phone (616) 399-7130.

FOR SALE OR EXCHANGE: Ova of *H. cecropia*, *A. luna*, *S. cynthia*, *P. asterius* and a few others. Please send a SASE for reply to Mark A. Howe, R.R. 1, Box 217, Lake Village, IN 46349.

FOR SALE: Two 36-drawer Cornell cabinets with 15 Cornell drawers in each. Send SASE for prices. Russell Rahn, 3205 W. Rochelle Road, Irving, TX 75062.

RARE BOOKS for sale: "Butterflies of California," J. A. Comstock (newly bound embossed edition), "The Butterfly Book," W. J. Holland (the late 1931 edition with 29 additional plates), "Butterflies of the World," H. L. Lewis (new), "The Moths of America North of Mexico," fascicle 13.1 c, Pyraloidea, Eugene Munroe (paper). Best offers will take. All offers responded to. R. E. Wells, 303-B Hoffman St, Jackson, California 95642 U.S.A. Phone (209) 223-1170.

The Market Place

Buy • Sell • Exchange • Wants



Items submitted for inclusion in this section are dealt with in the manner set forth on page 10 of the Jan/Feb 1990 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. This will include all Ornithopterans now and for the foreseeable future. Items will be accepted from members only and will be printed only once unless entry in the maximum of two successive issues is requested. Please keep items short. A maximum of 100 words is allowed. SASE 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.

WANTED: *Speyeria idalia*, *Speyeria diana*. Can offer papered specimens of *Papilio zelicaon*, *Pterourus eurymedon*, *Speyeria mormonia*, *Occidryas chalcedona*, *Coenonympha californica* in exchange. Frank McLarnon, 8 Ridge Lane, Orinda, CA 94563.

FOR SALE: Ova of *Hyalophora columbia*. Send SASE to Dr. Keith Gover, 46857 Ann Arbor Tr, Plymouth, Michigan 58170 U.S.A.

FOR SALE: *Atrophaneura dasarada*, *Atrophaneura latreillei*, *Atrophaneura varuna* and *Meandrusa gyas*. All the specimens are from India. Please contact Vincent Thomas Fornieri, 1308 "C" Street, Elmort, New York 11003-3814. My phone number is (516) 488-7726. Please call between 5:00 p.m. and 9:00 p.m. Eastern time.

FOR SALE: Equipment and cases being vacated by transfer of my collection to the University of Colorado. There are 5 cabinets, each 28" wide and 20" deep and 72" high, housing 24 wooden, glass topped cases (size 15 1/2" x 25" x 2 1/2"). All cases mahogany finished with label holders, 3 with hooks and all are hinged and inserted on metal runners in the cabinets. Prefer selling in lots of 24 with accompanying cabinet. Send SASE for price and details. Don Eff, 445 Theresa Dr, Fairview Estates, Boulder, Colorado 80303.

EXCHANGE ONLY: Butterflies and moths from Northwestern Arctic and Eastern Sub-Arctic for other Holarctic species. Send SASE for list. Edward M. Peters, P.O. Box 1043, Shirley, Massachusetts 01464 U.S.A.

WANTED TO BUY OR EXCHANGE: Living cocoons of *Agapema* and *Callosaturnia*. Write to Michel Lamour, Rue des Grands Terrages, 85100 Chateau D'Olonne, FRANCE.

FOR SALE: 25 year accumulation of active buying and trading in Lepidoptera. Thousands of specimens with large quantity of Morphos, Papilios, exotics and rare material. Looking for a serious collector interested in purchasing the complete collection. Best offer takes it. For inventory include SASE. George Ellis, c/o Maldavar Co., Inc., 2120 Bellevue, Detroit, Michigan 48207 USA.

MEMBERS' COMMERCIAL NOTICES.....

MIGUEL SERRANO, 6823 Rosemary Drive, Tampa, Florida 33625, U.S.A. RARE AND BEAUTIFUL BUTTERFLIES from Central America (bred *Papilio Morpho*); South America, Indonesia and Africa. Specializing in all families of Tropical America, notably *Papilio*, *Agrias*, *Morpho*, *Brassolidae*. Lists \$1.

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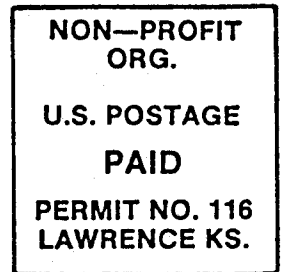
E. W. CLASSEY LTD. Natural History Bookseller. Est. 1949. P.O. Box 93, Faringdon, Oxfordshire SN7 7DR. England. FAX: 011-44-36782-429. PHONE: 011-44-36782-399. (24 hour). Catalogues available now: Catalogue 172 Natural History (32 pages) contains 307 second-hand and antiquarian books on LEPIDOPTERA. Catalogue "NEW" 12 Natural History (48 pages) contains 127 LEPIDOPTERA titles. A full list of new LEPIDOPTERA titles is in preparation. Fax or Write to be put on our LEPIDOPTERA mailing list and you will receive FREE the above lists, future catalogues and notice of new and forthcoming titles. We accept payment by \$ cheques and major credit cards.

FLORA & FAUNA BOOKS, P.O. Box 15718, Gainesville, FL 32604 - All books in print at 5% discount. Did you miss our Holiday sale at 15% discount? Let us put you on our mailing list. New items: *Moths of Taiwan*, pt. 1 (Chang, 1989. Chinese with Latin names/color illus.), \$27.50. *Lepidopterorum Catalogus* 118: Noctuidae (Poole, 1989, 1314 pp, 3 v), \$250.00. *Butterflies of the World* (Preston, 1988, 192 p, color), \$22.95. Above prices minus 5%, plus shipping (\$1 plus 50¢ per book; plus \$1 per book more outside the US) (Fla. residents add 6% sales tax).

IANNI BUTTERFLY ENTERPRISES, P.O. Box 81171, Cleveland, Ohio 44181, USA. Phone: (216) 888-2310. Worldwide butterflies, moths and beetles in all price ranges. Superior quality, double boxed for shipping safety. Personalized service to all - including new collectors! We specialize in Papilio, Morpho and Heliconius. ALSO, excellent quality insect pins including std. black, stainless steel, Elephant at the BEST prices. Send \$5.00 for one year price list subscription.

I. R. WILLEM, P.O. Box 1625, Margate 4275, SOUTH AFRICA. FOR SALE: Largest selection of South African beetles, including *Hypselogenia geotrupina*, *Eudicella euthalia natalensis*, *Amaurodes passerini rufotibialis*, *Anthia* sp, *Mantichora* sp. Also the multicolored rainbow grasshopper *Maphyetus leprosus* plus an assortment of butterflies. *Charaxes druceanus cinadon ethalion* and other rare material on special request.

From: The Lepidopterists' Society
Address Correction Requested:
Allen Press
P.O. Box 368
Lawrence, KS 66044



John A. Snyder
Department of Biology
Furman University
Greenville, SC 29613-0001

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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 Lepidopteroogy. 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) 326-6053.

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.

1988 MEMBERSHIP DIRECTORY (current to November 1988. Biennial directory of members and their addresses, with geographic and interest indices. Not available for commercial use. (NEWS #6 for 1988). \$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.