

RECENT LITERATURE ON LEPIDOPTERA

(Under the supervision of PETER F. BELLINGER)

Under this heading are included abstracts of papers and books of interest to Lepidopterists. The world's literature is searched systematically, and it is intended that every work on Lepidoptera published after 1946 will be noticed here; omissions of papers more than 3 or 4 years old should be called to Dr. BELLINGER's attention. New genera and higher categories are shown in CAPITALS, new species and subspecies are noted, with type localities if given in print. Larval foodplants are usually listed. Critical comments by abstractors may be made. Papers of only local interest and papers from *The Lepidopterists' News* are listed without abstract. Readers, particularly outside of North America, interested in assisting with this very large task, are invited to write Dr. BELLINGER (Dept. of Natural Sciences, San Fernando Valley State College, Northridge, Calif., U. S. A.). Abstractors' initials are as follows: [P.B.] — P. F. BELLINGER; [I.C.] — I. F. B. COMMON; [W.C.] — W. C. COOK; [A.D.] — A. DIKONOFF; [W.H.] — W. HACKMAN; [J.M.] — J. MOUCHA; [E.M.] — E. G. MUNROE; [N.O.] — N. S. OBRAZTSOV; [C.R.] — C. L. REMINGTON; [J.T.] — J. W. TILDEN; [P.V.] — P. E. L. VIETTE.

B. SYSTEMATICS AND NOMENCLATURE

- Dujardin, F., "Description de races et de formes nouvelles de zygènes principalement du Sud-Est de la France (Lep. Zygænidae)" [in French]. *Bull. mens. Soc. linn. Lyon*, vol. 25: pp. 252-263. 1956. Description of new races of the genus *Zygæna* (described as subsp. in accordance with the Règles of Zoological Nomenclature) from the South-east of France: *Z. æsubiana droitica*, *Z. gallica frigidagallica*, *Z. loniceræ stæchadinima*, *Z. flipeudulæ claraduponcheli*, *Z. f. lævriini*, *Z. transalpina altamaritima*, *Z. loti mesolænia*, *Z. exulans stenostigma*, *Z. sarpedon leuzensis*, *Z. s. xerophila*, *Z. fausta magna/fausta*, *Z. f. paræ/fausta*, *Z. occitanica arida*, *Z. carniolica minorubens*, *Z. rhadamanthus cleui*, *Z. r. mesolopha*, *Z. r. ochsi*. The number of new races of *Zygæna* in this part of France is in correspondence with the different ecological and climatic areas. Four areas are considered by the author. [P.V.]
- Dumbleton, L. J., "Coleophoridae (Lep.) as pest of clovers." *N. Z. Journ. Sci. Tech.* (A), vol. 33: pp. 109-112, 2 figs. 1952. Records *Coleophora frischella* from white clover in New Zealand and gives characters for separating it from *C. spissicornis* and *C. deauratella*, which had been previously reported from New Zealand. States that only the first two occur in New Zealand, the third in Tasmania. Key to the 3 spp. and figures of the ♂ genitalia of the 2 New Zealand spp. [I.C.]
- Dziurzynski, Adam, "On the morphology and biology of the butterfly *Antispila stachjanella* n. sp." [in Polish; English summary]. *Docum. physiogr. poloniæ*, no. 12: pp. 1-87, 30 figs. 1948. A detailed description of the n. sp. (type locality Cracow) with a revision of the genus *Antispila* in Poland. [J.M.]
- Edwards, E. O., "New races of *Ialmenus icilius*." *Proc. R. zool. Soc. N. S. Wales*, 1949-50: pp. 58-60. 1951. Describes as new the lycænids *I. i. mitchelli* (Mitchell, Queensland; larvæ on *Cassia eremophila*), *I. i. obscurus* (Mitchell; larvæ on *Acacia harpophylla*). Though from one type locality, marked differences in the pupæ are described. No figs.; genitalia not studied. [I.C.]
- Edwards, E. O., "Life histories of *Ialmenus icinus* Hewitson, 1865; with descriptions of new forms (Lepidoptera: Lycænidae)." *Proc. R. zool. Soc. N. S. Wales*, 1954-55: pp. 60-62. 1956. Describes as new *I. i. kooronya* and *I. i. penunga* (both from Menangle Park, N. S. Wales). Larvæ of the former feed and pupate singly on *Acacia decurrens*, those of the latter gregariously on *A. melanoxyton*. No figs.; genitalia not studied. [I.C.]
- Eisner, Curt, "Eine neue Rasse von *Parnassius bremneri* Feld" [in German]. *Bonner zool. Beitr.*, vol. 3: p. 90. 1952. Describes as new *P. b. spielhageni* (Chandaocheszy). [P.B.]
- Eisner, Curt, "Parnassiana nova. IX. Kritische Revision der Gattung *Parnassius* (Fortsetzung 6)" [in German]. *Zool. Meded.*, Leiden, vol. 34: pp. 201-222. 1956. Review of Swiss and Italian "sspp." of *P. apollo*. Records named "forms" and names 2 new ones. [P.B.]

- Eisner, Curt, "Parnassiana nova. X. Zwei neue nordamerikanische *Parnassius* sub-species" [in German]. *Zool. Meded.*, Leiden, vol. 34: pp. 243-245, 1 pl. 1956. Describes as new *P. clodius hel* (Stevens Pass, Cascade Mts., Washington), *P. phæbus alaskensis* (Mt. McKinley Park, Alaska). [P. B.]
- Eisner, Curt, "Parnassiana nova. XI. Kritische Revision der Gattung *Parnassius* (Fortsetzung 7)" [in German]. *Zool. Meded.*, Leiden, vol. 34: pp. 247-270. 1956. Review of "sspp." of *P. apollo* from Spain, Tyrol, and Bavaria. Names a new "form." [P. B.]
- Eisner, Curt, "Parnassiana nova. XII. Kritische Revision der Gattung *Parnassius* (Fortsetzung 8)" [in German]. *Zool. Meded.*, Leiden, vol. 35: pp. 33-49. 1957. Describes as new *P. mnemosyne céuzensis* (Col de Céuze, 1600-1800 m., Hautes Alpes). Lists types and some other specimens of *P. mnemosyne* ssp. in his collection, with descriptives notes. [P. B.]
- Eisner, Curt, "Parnassiana nova. XIII. Vier neue Hybriden" [in German]. *Zool. Meded.*, Leiden, vol. 35: pp. 51-53, 1 pl. 1957. Describes hybrids between several "sspp." of *Parnassius apollo*, and between *Zerynthia hypermnestra* and *Z. rumina*. [P. B.]
- Eisner, Curt, "Parnassiana nova. XIV. Kritische Revision der Gattung *Parnassius* (Fortsetzung 9)" [in German]. *Zool. Meded.*, Leiden, vol. 35: pp. 79-111, 1 pl. 1957. Continues catalogue, with forms of *P. mnemosyne* (concluded), *P. glacialis*, *P. clarius*, *P. eversmanni*, *P. eversmanni*, *P. clodius*, *P. orleans*, *P. honrathi*, *P. apollonius*, *P. bremeri*, *P. phæbus*. Describes as new *P. p. savoieensis* (Pralognan, Savoy). [P. B.]
- Eliot, J. N., "Notes on the genus *Poritia* Moore (Lepidoptera: Lycaenidæ)." *Entomologist*, vol. 90: pp. 70-74, 18 figs. 1957. Describes as new *P. fruhstorferi nila* (Batak Mts., Sumatra). Sinks *P. nicias* to *P. philota*, *P. pheda* to *P. phama*. List of spp. with descriptive notes and sketches of claspers of some. Names one "form." [P. B.]
- Jordan, Karl, "The generic name *Dictyoploca*." *Entomologist*, vol. 90: p. 50. 1957. Selects *Saturnia simla* as type. [P. B.]
- Kauffmann, Guido, "Die Hesperiidæ der Schweiz. Rassenanalytische Bemerkungen über Verbreitung und Formen dieser Familie" [in German]. *Mitt. schweiz. ent. Ges.*, vol. 24: pp. 329-376. 1951. Describes as new *Pyrgus malvæ luciaris* (Lopperberg, central Switzerland), *P. carlinæ ochroides* (Alpe Manegorio), *P. cirsiî tramelanensis* (Bözigen, Berner Jura), *P. alveus prabornius* (Saas Fee). Records 23 spp. and 48 ssp. Lists for each the known foodplants, distribution, and named "forms". Some descriptive notes on ssp. [P. B.]
- Kauffmann, Guido, "Beitrag zur Genitalarmatur von *Muschampia leuzææ* Obtr. (Lep. Hesperiidæ)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 40: pp. 214-215, 1 pl. 1955. Describes and figures ♂ genitalia, incorrectly figured by Evans; figures adults. [P. B.]
- Kauffmann, Guido, "Mitten im Chaos der asiatischen *Hesperia comma* L. (Lep. Hesp.)" [in German]. *Mitt. münchener ent. Ges.*, vol. 46: pp. 50-53, 2 pls. 1956. Names a "form" from the Hindu Kush. Demonstrates variability of ♂ genitalia in similar specimens flying together; doubts value of valvæ for species separation in Asiatic populations. [P. B.]
- Kautz, Hans, "Benennung der nordeuropäischen *Pteris bryoniae* O." [in German]. *Zeitschr. wiener ent. Ges.*, vol. 39: pp. 296-297. 1954. Prefers to call northern race *adalwinda*, on grounds of continuity, rather than *arctica*. [P. B.]
- Kernbach, Kurt, "Eine neue Unterart von *Protoparce diffissa* Btlr. aus Bolivien (Sphingidæ)" [in German]. *Zeitschr. Lepid.*, vol. 2: pp. 129-130, 1 fig. 1952. Describes as new *P. d. zischkai* (Cochabamba, Bolivia). [P. B.]
- Kernbach, Kurt, "Eine neue Sphingidenart aus Argentinien: *Sphinx phalerata* n. sp." [in German]. *Zeitschr. Lepid.*, vol. 3: pp. 101-103, 3 figs. 1955. Described from Tucumán, Argentina. [P. B.]
- Kernbach, Kurt, "Über die afrikanischen Sphingiden *Polyptychus convexus* R. & J. und *Polytychus ferroseus* Ghl." [in German]. *Zeitschr. Lepid.*, vol. 3: pp. 157-161, 1 pl., 2 figs. 1955. Compares *P. convexus* with *P. pygarga*, and *P. ferroseus* with *P. baxteri* [P. B.]
- Kernbach, Kurt, "Die Gattung *Epistor* Boisd. und die *Protoparce*-Arten *lefeburei* [sic!] und *incisa* Walker (Lep. Sphingidæ)" [in German]. *Deutsche ent. Zeitschr.*, N.F., vol. 4: pp. 74-85, 2 pls., 5 figs. 1957. Describes as new *E. cavifer reconditus* (Mexico), *E. c. paganus* (Manicoré, Amazonas), *E. bathus otiosus* (Rio Songo, 750 m., Bolivia). Reviews spp. of *Epistor*; distinguishes above spp. of *Protoparce*, and reduces *P. andicola* and *P. viola-alba* to ssp. and "form" of *P. incisa*. [P. B.]

- Kettlewell, H. B. D., "The natural history of *Papilio hospiton* in Corsica." *Entomologist*, vol. 88: pp. 280-283. 1955. Records captures of *P. hospiton* and *P. machaon*, with notes on adult behaviour, etc. Spp. overlap in range, though *P. machaon* is confined to lowlands, and in foodplants (*Ferula communis*; *P. machaon* also on other plants); species barrier presumably reproductive. [P. B.]
- Kiriakoff, S. G., "Sur la phylogénie des THYRETIDÆ fam. nov. (Lepidoptera)" [in Flemish; French summary]. *Natuurwet. Tijdschr.*, vol. 31: pp. 3-10, 1 pl., 1 fig. 1949. Separates new family from Ctenuchidæ on basis of tympanal structure, which is described and figured for both families. Associates new family with Dioptidæ, Notodontidæ, and Thaumatopeidæ in superfamily Notodontoidea. [P. B.]
- Kiriakoff, S. G., "L'usage des catégories taxonomiques intermédiaires dans la classification phylogénétique des lépidoptères" [in French]. *Ann. Soc. Roy. zool. Belg.*, vol. 83: pp. 87-106, 1 fig. 1952. Summarizes his classification. Order Amphibesmenoptera includes suborders Trichoptera, Zeugloptera, and Lepidoptera; latter is divided into supercohorts Hopostematoptera (Eriocraniidæ), Aplostematoptera (Hepialidæ) Nanolepidoptera (Stigmellidæ), and Eulepidoptera. Also gives examples of use of intermediate categories at lower level (e.g. ultraspecies). Reviews application of his study of tympanal organs to classification of "Noctuiiformes." [P. B.]
- Kiriakoff, S. G., "Origine et évolution des organes tympanaux chez les lépidoptères" [in Flemish; French summary]. *Natuurwet. Tijdschr.*, vol. 33: pp. 203-209. 1952. Regards abdominal tympanal organs as diphyletic, having appeared independently in Pyralidæ and in Geometridæ, Uraniidæ, and Cymatophoridæ. Speculates on mechanism of development of these similar organs in separate, though related, lines. [P. B.]
- Kiriakoff, Serge G., "Contributions à l'étude des lépidoptères hétérocères. (Deuxième note)" [in French]. *Bull. Inst. Roy. Sci. nat. Belg.*, vol. 30, no. 29: 10 pp., 11 figs. 1954. Describes as new: (Thyretidæ) *Metarctia (Hebena) subincarnata* (Lupweji, Belgian Congo); *Balacra (B.) helga* (Lupweji); (Arctiidæ) *Asura subfulvia* (Elisabethville, Belgian Congo); *Eilema denticata* (Kapanga, Belgian Congo); *Caripodia semisericea* (Sandoa, Belgian Congo), *C. aurantiacella* (Mukonkoto, Belgian Congo); *PARASOLOE* (monobasic), *P. tetrasticta* (Kafakumba, Belgian Congo). [P. B.]
- Kiriakoff, S. G., "Recherches sur les organes tympaniques des lépidoptères en rapport avec la classification, XII. Lymantriidæ" [in French]. *Bull. Ann. Soc. ent. Belg.*, vol. 92: pp. 168-199, 14 figs. 1956. Studies on the tympanic organ of the Lymantriidæ, with, at the end of the paper, considerations about the phylogeny of this family. [P. B.]
- Kiriakoff, S. G., "Recherches sur les organes tympaniques des lépidoptères en rapport avec la classification, XIII. Groupe d'*Epicoma* Hübner" [in French]. *Biol. Jaarb.*, vol. 23: pp. 218-227, 5 figs. 1956. Studies of the tympanic organ of the Australian group of genera near *Epicoma*. The genera *Epicoma*, *Trichetra*, *Ochrogaster*, and *Teara* have tympanic organs of the notodontid type, and *Comana* belongs to the Limacodidæ. The second part of the paper is geographical considerations on the notodontid fauna of Australia. [P. V.]
- Kiriakoff, S. G., "Lépidoptères nouveaux du Congo Belge" [in French]. *Rev. Zool. Bot. afric.*, vol. 55: pp. 269-284, 14 figs. 1957. Descriptions of new genera and new species of Thyretidæ (Noctuiiformes, Notodontoidea) from the Belgian Congo: *Rhipidartia aurora* (Sankuru), *R. rhodospila* (Sankuru), *R. rhodosoma* (Sankuru), *R. cornelia* (Equateur), *R. unicolor* (Eala), *R. strenua* (Sankuru), *R. saturata* (Sankuru), *OWAMBARCTIA*, and type *O. owamboënsis* (Owambo, SW Africa); *Metarctia heringi* (upper Katanga), *M. infausta* (Kibali-Ituri), *M. morosa* (upper Katanga), *M. dracuncula* (Felitebwe), *M. subpumila* (Kabinda), *M. paniscus* (Kibali-Ituri); *Balacra simplicior* (Sankuru); *Bergeria avellana* (Eala); *NEOPHEMULA* (type *vuirina* Ch. Oberthür), *N. v. congoensis* (Fomhoko); *PACHYCERYX*, and type *P. albomaculata* (Tshuapa). [P. V.]
- Kiriakoff, S. G., "Notes sur les Thyretidæ (Lepidoptera: Notodontoidea)" [in French]. *Bull. Ann. Soc. ent. Belg.*, vol. 93: pp. 121-160, 15 figs. 1957. Notes on 75 spp. of Ethiopian Thyretidæ, with descriptions of *COLLOCALOIDES* (subgenus of *Metarctia*; type *dracena* Kiriakoff, 1953); *EPIBALACRA* n.n. for "*Balacra* s. str." (Kiriakoff, 1953) (subgenus of *Balacra*; type *preussi* Aurivillius); *BALACRELLA* (subgenus of *Balacra*; type *affinis* Rothschild). Description of a new species, *Balacra aurivilliusi* (Kongolo, Tanganyika). [P. V.]
- Kiriakoff, Sergius G., "On the subspecies concept in taxonomy." *Lepid. News*, vol. 10: pp. 207-208. 1957.

- Kleinschmidt, Otto, "Über Vanessen und andere Tagfalter aus China" [in German]. *Bonner zool. Beitr.*, vol. 1: pp. 276-285, 2 figs. 1951. Discussion of races and seasonal forms of "*Vanessa*" *urticae* (figures) and other nymphalids from Höne's collection. [P. B.]
- Klimesch, Josef, "*Bucculatrix clavænae* spec. nov. (Lep., Bucculatricidæ)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 35: pp. 138-142, 1 pl., 7 figs. 1950. Described from Traunsteingebiet, Tyrol, and Engadin; reared from *Achillea clavænae* and *A. millefolium*. [P. B.]
- Klimesch, J., "*Coleophora derasofasciella* (Toll in lit.) spec. nov. (Lep., Coleophoridae)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 37: pp. 14-17, 1 pl. 1952. Described from E. Alps, no type locality specified. Describes larva and case; foodplant *Dryas*. [P. B.]
- Klimesch, Josef, "*Nepticula arbusculæ* spec. nov. (Lep., Nepticulidæ)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 36: pp. 149-152, 1 pl., 3 figs. 1952. Described from various localities in E. Alps; larva mines leaves of *Salix* spp. [P. B.]
- Klimesch, J., "Über eine neue *Scythris*-Art aus den Nordost-Alpen (*Scythris saxicola* sp. n.; Lep., Scythrididæ)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 36: pp. 141-144, 1 pl. 1952. Described from Kalkalpen; foodplants *Silene alpestris* and *Gypsophila repens*. [P. B.]
- Klimesch, Josef, "Über zwei neue *Coleophora*-Arten (*C. tolli* spec. nov. auf *Thymus*, *C. argentariella* spec. nov. auf *Helianthemum canum*) (Lep. Coleophoridae)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 36: pp. 144-148, 2 pls. 1952. *C. tolli* from Altaussee, E. Alps; *C. argentariella* from Monte Calisio. [P. B.]
- Klimesch, J., "Zur Morphologie und Biologie der Raupe der *Coleophora separatella* Benander (Lep., Coleophoridae)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 37: pp. 17-24, 21 figs. 1952. Describes adult and genitalia and distinguishes sp. from *C. millefolii*. Describes larva (in great detail) and case. Larva on *Tunica saxifraga*; notes on biology. [P. B.]
- Klimesch, J., "Die an Caryophyllaceen lebenden europäische *Gnorimoschema* Busck (= *Phthorimaea* Meyr.)-Arten. Ein Beitrag zur Kenntnis der Genitalmorphologie der Gelechiiden (Lep.). II. Teil: die *leucomelanellum*-Gruppe (Rest) und die *huebneri*-Gruppe" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 39: pp. 273-288, 335-341, 357-362, 48 figs. 1954. Describes as new *G. mähringæ* (various localities in Austria; larva on *Mähringia malyi*). Describes and figures genitalia of both sexes of spp. in these groups. Records distributions and foodplants. Reduces *G. semidecandrellum* to ssp. of *G. alsinellum*. Transfers *Gelechia interalbicellum* to *Gnorimoschema*. Sinks *G. subvicinellum* to *G. albifasciellum*. Notes on some similar spp. belonging to related genera. [P. B.]
- Klimesch, Josef, "Die Arten der *Acrolepia granitella* Tr.-Gruppe. Ein Beitrag zur Kenntnis der Genitalmorphologie der Acrolepiidæ sowie Beschreibung von 6 neuen Arten. (Lep. Acrolepiidæ)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 41: pp. 129-144, 2 pls., 24 figs. 1956. Describes as new *A. occidentella* (Noli, Liguria; reared from *Inula conyzia*), *A. pulicariæ* ("Naturus b. Meran"; reared from *Pulicaria dysenterica*), *A. orientella* (Fiume), *A. macedonica* (Petrina Planina, near Ochrid), *A. wolfschlaegeri* (Petrina Planina), *A. heringi* (Matka, Macedonia; reared from *Inula aschersoniana*). Redescribes *A. solidaginis* and *A. granitella*; sinks *A. variella* to latter. Describes ♂ genitalia of spp. of genus. Spp. apparently monophagous. [P. B.]
- Klimesch, J., "*Nepticula szöczi* spec. nov. (Lepidoptera)" [in German]. *Ann. hist.-nat. Mus. nat. Hung.*, ser. 2, vol. 7: pp. 423-424, 1 fig. 1956. Described from Budakeszi, Harsbókorhegy, Hungary; larva mines leaves of *Acer campestre*. [P. B.]
- Kodama, Tuyoshi, "On the *Conilepia nigricosta* Leech (Arctiidæ, Lithosiinæ) from Japan" [in Japanese; English summary]. *Trans. lep. Soc. Japan*, vol. 7: pp. 30-32, 10 figs. 1956. Redescribes ♂ and gives first description of ♀. [P. B.]
- Köhler, P., "Dos Heterocera nuevas argentinas" [in Spanish; English summary]. *Acta zool. lilloana*, vol. 7: pp. 337-338. 1949. Describes as new: (Lasiocampidæ) *Euglyphis bridarolliana* (Tigre, Buenos Aires); (Arctiidæ) *amastus prosenii* (Jujuy). [P. B.]
- de Koning, H. S., & W. Roepke, "Remarks on the morphology of the Teak Moth, *Hyblaea puera* Cr. (Lep. Hyblæidæ)." *Treubia*, vol. 20: pp. 25-30, 8 figs. 1949. Describes external morphology of adults, and genitalia; concludes that moth cannot be placed in Noctuidæ, because of tridentate uncus, absence of tympanum, etc. [P. B.]
- Kostrowicki, Andrzej Samuel, "Two new European species of the subfamily Cuculliinae (Lepidoptera, Phalænida)" [in English; Polish and Russian summaries]. *Ann.*

- zool., Warsaw, vol. 16: pp. 65-71, 2 pls. 1956. Describes as new *Cucullia rosamaria* (Brody, Ukrainian S. S. R.); *Derthisa swiderskii* (Zalisćyky, Ukrainian S. S. R.). [P. B.]
- Kovács, L., "Die in Ungarn vorkommenden Euxoa-Arten (Lepidoptera)" [in German; Magyar and Russian summaries]. *Ann. hist.-nat. Mus. nat. Hung.*, ser. 2, vol. 2: pp. 125-132. 1952. Describes as new *E. hastifera pomazensis* (Pomáz), *E. distinguenda fotica* (Budaörs); also names a "form" of *E. tritici*. Reviews 11 spp. of *Euxoa* from Hungary, with notes on identification, distribution, and biology. [P. B.]
- Kovács, L., "New data relating to systematical and zoogeographical problems of some Macrolepidoptera" [in English; Magyar summary]. *Ann. hist.-nat. Mus. nat. Hung.*, ser. 2, vol. 5: pp. 305-315, 6 figs. 1954. Describes as new *Sarrothripus hungarica* (Bátorliget), *S. dilutana goniophora* (Kaposvár), *S. d. helvetica* (Martigny, Switzerland); *Gnophos intermedia benestriata* (Branyiszko), *G. i. diószeghyi* (Reteyzát, 1300 m.), *G. i. budensis* (Pilisvörösvár, near Buda). Reduces *Hypenodes orientalis* to ssp. of *H. kalszbergi*. Notes on presence in Hungary of *Colias calida* and *Mannia lepraria*. [P. B.]
- Kovács, L., "Some data concerning the subspecific distribution of *Colias chrysotheme* Esp. (Lepidoptera)" [in English; Russian summary]. *Ann. hist.-nat. Mus. nat. Hung.*, ser. 2, vol. 7: pp. 425-434. 1956. Describes as new *C. c. praealpina* (Magyaróvár, Hungary). Redescribes nominate race and comments on the palearctic ssp. and their distribution; recognizes for the moment ssp. *chrysotheme*, *praealpina*, *sibirica*, *caspicus*, and *ksienzhopolskii*; perhaps 3 other ssp. (1 in Europe) remain to be named. [P. B.]
- Lacrezue, Charles, "Observations sur les genitalia mâles de *Melitea orientalis* et *desfontainii* (Lep. Nymphal.)" [in French]. *Mitt. schweiz. ent. Ges.*, vol. 25: pp. 23-28, 1 pl. 1952. Describes and compares ♂ genitalia; maintains that spp. are distinct from each other and from *M. aurinia*. [P. B.]
- de Læver, Edmond, "Études sur le genre *Eupithecia* Curtis" [in French]. *Bonner zool. Beitr.*, vol. 7: pp. 237-247, 4 pls. 1956. Figures genitalia of 1 or both sexes of 25 spp. described by Staudinger; apparently figures are from types, but for most spp. no information is given except for notes on the genital structure. [P. B.]
- Lambert, Robert, "Étude des organes sexuels des papillons comme caractère taxonomique complémentaire" [in French]. *Ann. de l'ACFAS*, vol. 17: pp. 150-154. 1951. Includes notes on his revision of Sparganothidinae. [P. B.]
- de Lattin, Gustav, "Türkische Lepidopteren. I." [in German; Turkish summary]. *Rev. Fac. Sci. Univ. Istanbul, Ser. B*, vol. 15: pp. 301-331, 2 pls., 9 figs. 1950. Describes as new *Zerynthia hypsiphyle tristis* (Aydos-dagi); *Hipparchia fatua kosszigi* (Elazig); *Ceanonympha pamphilus neolyllus* (Sason-daglari); *Melitea cinxia burri* (Yeni-Mahalle, near Istanbul); *Pyrgus fritillum turcicola* (Nemrut-dagz). Annotated list of butterflies, Hesperiidæ, Anthroceridæ, Amatidæ, Nolidæ, Arctiidæ, Lymantriidæ, and Thaumatopeidæ, with systematic notes. [P. B.]
- de Lattin, Gustav, "Ueber die Arten der Gattung *Cynæda* Hb. (Pyrilidæ)" [in German]. *Zeitschr. Lepid.*, vol. 1: pp. 65-84, 1 pl., 10 figs. 1951. [Correction, vol. 2: p. 23]. Describes as new *C. forsteri* (Guberla, S. Ural), *C. gigantea mendicalis* (Pusztá Peszer, Hungary). Carefully distinguishes *C. dentalis*, *C. gigantea*, & *C. furiosa*, using genitalia, color and pattern, and some noteworthy structural characters (including form of clypeus & palpi). Discusses distribution and variation. [P. B.]
- Le Cerf, F., "Nouveaux genres et espèces d'Ægeriidæ de Madagascar" [in French]. *Bull. Soc. ent. France*, vol. 62: pp. 97-100. 1957. Descriptions of two new genera: *LENYRHOVA* (type *reckmanniae* Aurivillius) and *HOVAESIA* (type *donckieri* LeCerf) and 2 new spp.: *Chamaesphacia seyrigi* (Antsirabe area, central Madagascar) and *C. lemur* (Perinet Forest, E. Madagascar). [P. V.]
- Le Charles, L., "*Scabiosa* Scheven et *megorion* Burgeff=*romeo* Duponchel sont bien des espèces différentes" [in French]. *Rev. franç. Lépid.*, vol. 16: pp. 12-21, pls. A and B, pls. V-VII. 1957. This paper is exactly the model of a badly presented note. The study of the author is perhaps available, but the presentation is nonsense from beginning to end. Publication of such a paper is a nuisance to the literature and jumbles an already complicated question like the study of the Zygænidæ. First, the title has no indication of genus and family names; *scabiosa* should be *scabiosae*; and the fact that *romeo* has priority is badly indicated. The first part of the paper is devoted to the biology of *Zygæna romeo*. The eggs and the first stages of the larvæ are found on *Lathyrus* and the last stages, after the winter, on *Vicia*. It is the second part, devoted to the taxonomy, that is incomprehensible. The author (p. 15) writes: "*Zy-*

- gæna Scabiosæ* [why capital?] Scheven=*trimacula* Engramelle," but lower down: "*trimacula* ssp. nova." In the legend of plate B, it is written: "Prép. n°. 301 *Scabiosæ vogesiaca*" as if these were the generic and specific names; this should read *Zygæna scabiosæ vogesiaca*. Furthermore, the localities are erroneous. No holotype is indicated for the new subspecies *Z. s. vogesiaca*. It is necessary to guess that the ssp. of *Z. scabiosæ* from the Haute-Savoie area (Alps) — *expansa* — is new; this is indicated only on plate B. The ssp. of the Hautes-Alpes arear dedicated to Dr. Droit (p. 20) is described (?) but not named. The new ssp. *atlantica*, from Morocco, is named but not described; in the next, it is a ssp. of *Z. romeo*, and on plate V (not VI as indicated) a ssp. of *Z. nevadensis*. A new species, *Z. agenjoi*, is described from Spain; no indication of holotype or type locality. It would be possible to cite other examples of errors in this very bad paper, but it is necessary to stop here. [P.V.]
- Le Marchand, S., "Respect à la loi" [in French]. *Rev. franç. Lépid.*, vol. 14: pp. 66-69. 1953. Calls attention to rule that a genus must always include the species first selected as its type. Also comments on solecisms in formation of scientific names, especially family names (e.g. Bucculatrigidæ instead of Bucculatricidæ). [P.B.]
- Legrand, H., "Une nouvelle pyrale des îles Séchelles (Lep. Pyraustidæ)" [in French]. *Bull. Soc. ent. France*, vol. 62: pp. 149-150, 1 fig. 1957. Description of a new pyralid from the Seychelles (Mahé): *Cirrhocrista müllerialis*. [P.V.]
- "Lpk." [Lempke, B. J.], "Nomenclatuur" [in Dutch]. *Ent. Berichten*, vol. 13: p. 48. 1950. Name *Eilema deplana* preferred to *E. depressa*. [P.B.]
- Lempke, B. J., "Catalogus der Nederlandse Macrolepidoptera (tweede supplement)" [in Dutch; with English notes]. *Tijdschr. Ent.*, vol. 97: pp. 301-305, 1 pl., 1 fig. 1954. . . . (derde supplement) *ibid.*, vol. 98: pp. 283-345, 5 pls., 2 figs. 1956. . . . (vierde supplement) *ibid.*, vol. 99: pp. 155-216, 2 pls., 1 fig. 1956. Describes as new *Maculinea arion gelriæ* (Slangenbung, Prov. Guelderland), *M.alcon ericæ* (Apeldoorn). Monograph of Dutch distribution and variation of Coliadini, Lycænidæ, and Nymphalidæ; numerous new "forms" are named. [P.B.]
- Lempke, B. J., "The 'Hippocrepsis Colias'." *Ent. Rec. & Journ. Var.*, vol. 66: pp. 33-34. 1954. Prefers name *calida* to *australis*; supports specific distinctness from *C. hyale*. [P.B.]
- Lének, Oskar, "Boarmia-Hybriden" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 40: pp. 72-73, 1 pl. 1955. Describes hybrids from *B. crepuscularia* ♂ × *V. selenaria* ♀, and F₂ hybrids of reciprocal cross; names former and one segregation type of latter. [P.B.]
- de Lesse, H., "Quelques indications sur *Melitæa britomartis* Assm., espèce à rechercher en France" [in French]. *Bull. mens. Soc. linn. Lyon*, vol. 19: pp. 38-40. 1950. Reviews characters of sp. Examination of ♂ genitalia essential for determination. [P.B.]
- de Lesse, H., "Deuxième note sur le genre *Melitæa*: *M. trivia* Denis et Schiffermüller" [in French]. *Bull. mens. Soc. linn. Lyon*, vol. 19: pp. 73-74, 2 figs. 1950. Gives characters and distribution; figures ♂ genitalia of *M. trivia* and *M. britomartis*. [P.B.]
- de Lesse, H., "Lépidoptères récoltés par A. Barbezat au cours de l'expédition lyonnaise 1951 au Garhwal. III. Nymphalidæ" [in French]. *Bull. mens. Soc. linn. Lyon*, vol. 21: pp. 203-206. 1952. Annotated list of 20 spp.; figures genitalia of both sexes of *Lasiommata schakra*. [P.B.]
- de Lesse, H., "Note sur les genres *Precis* Hb. et *Junonia* Hb. (Lep. Nymphalidæ)" [in French]. *Bull. Soc. ent. France*, vol. 57: pp. 74-77, 2 figs. 1952. Maintains that *Precis* (type *octavia*) and *Junonia* (type *lavinia*) are distinct; redefines genera; figures ♂ genitalia of type spp.; lists spp. of each. [P.B.]
- de Lesse, H., "Notes on the species-groups in the genus *Erebia*: a reply" [in French]. *Entomologist*, vol. 89: pp. 278-282. 1952. Reply to criticism by Warren. Stresses importance of using a number of different characters in classification of this genus, instead of relying on the ♂ valves alone. Reaffirms value of ♀ genitalia in some cases. Presents evidence, including similarity in chromosome number, for grouping *E. epipsodea* with *E. medusa*. [P.B.]
- de Lesse, H., "Révision de l'ancien genre *Satyryrus* (s.l.)" [in French]. *Ann. Soc. ent. France*, vol. 120: pp. 77-101, 28 figs. 1952. Revision includes holarctic Satyridæ with spines on tibia of mesothoracic legs, except *Eneis*; only nearctic genus is *Neominois*. Describes and figures genitalia of both sexes of type spp. of *Hipparchia* (with subgenera *Hipparchia*, *Neohipparchia*, *Pseudotergumia*), *Arethusana*, *Aulocera*, *Kanetisa* (with subgenera *Kanetisa* and *Brintesia*), *Karanasa* (genitalia of *K. leechi*,

- not type), *Minois*, *Satyrus*, *Berberia*, *Neominois*, *Pseudochazara*, and *Chazara*. Compares his classification with those of Gaede and others. Reviews distribution and relationships between and within genera. [P. B.]
- de Lesse, H., "Révision des anciens genres *Pararge* (s.l.) et *Maniola* (= *Epinephele* (auct.))" [in French]. *Ann. Soc. ent. France*, vol. 121: pp. 61-76, 24 figs. 1952. Describes and figures genitalia of type spp. of *Pararge*, *Lopinga*, *Lasiommata*, *Kirinia*, *Chonala*, *Aranda* (*Pararge* s.l.) and of *Maniola*, *Pyronia* (with subgenera *Pyronia*, *IDATA*—type *cecilia*, *PASIPHANA*—type *bathseba*), *Hypponephele*, and *Cercyonis*. Lists spp. of each and reviews distribution. [P. B.]
- de Lesse, H., "Sur la validité de *Pararge xiphia* F. et *xiphiodes* Stgr. (Lep. Satyridæ)" [in French]. *Bull. Soc. ent. France*, vol. 57: pp. 152-155, 3 figs. "1952" [1953]. Redescribes spp. and compares them with *P. ægeria*, of which they are island representatives, confined respectively to Madeira and Teneriffe. [P. B.]
- de Lesse, H., "État actuel de la systématique du groupe d'*Erebia tyndarus* Esp. (s.l.)" [in French]. *Rev. franç. Lépid.*, vol. 14: pp. 228-236, 1 fig. 1955. Summary of paper by Lorkovic (1953) published in Yugoslavia. [P. B.]
- de Lesse, H., "Description des sous-espèces pyrénées d'*Erebia cassioides* Hohnw." [in French]. *Lambillionea*, vol. 56: pp. 101-109, 2 figs. 1956. Description of two new ssp. of *E. cassioides* in the Pyrenees: *E. c. pseudomurina* (Hautes Pyrénées: Cauterets, Gavarnie, Gèdre) and *E. c. pseudocarmenata* (Ariège, Pyrénées Orientales). [P. V.]
- de Lesse, H., "Révision du genre *Lethe* (s.l.) (Lep. Nymphalidæ Satyridæ)" [in French]. *Ann. Soc. ent. France*, vol. 125: pp. 75-95, 36 figs. "1956" [1957]. Revision of the satyrid genus *Lethe* (s.l.). In spite of the great number of described genera, the author considers only three genera valid: *Blanaida* Kirby, *Lethe* Hübner, and *Orinoma* Doubleday, the last with two subgenera: *Orinoma* and *Raphicera* Butler. The two first genera are divided respectively into 3 and 15 groups of species. The affinities and the systematic value of the groups of the genus *Lethe* and the distributions of the genera *Blanaida*, *Zophoessa*, and *Lethe* are then studied. [P. V.]
- Lorkovic, Zdravko, "Beiträge zum Studium der Semispecies. Spezifität von *Erebia stirijs* Godt. und *E. styx* Fr. (Satyridæ)" [in German]. *Zeitschr. Lepid.*, vol. 2: pp. 159-176, 2 pls., 4 figs. 1952. Raises *E. stirijs styx* to specific rank, and describes as new *E. styx trentæ* (Soca Springs, Trenta Valley, Julian Alps). Compares pattern, genitalia, early stages, chromosome number, flight period, and habitat of the 2 spp. Assigns races of *E. stirijs* s.l. to one or the other sp.; of 10, only *nerine*, *stirijs*, and *morula* belong to *stirijs* in restricted sense. Numerous differences, confirmed with reared material, leave no doubt that the 2 spp. are distinct. [P. B.]
- Lucas, Daniel, "Contribution à la faune des lépidoptères de l'Afrique du Nord" [in French]. *Bull. Soc. ent. France*, vol. 54: p. 96. 1949. Describes as new *Pyralis "Marie Ludovicæ"*, n.sp." (Marsa plage, Tunisia); *Heterographis sfaxella* (Sfax, Tunisia); names 4 "forms." [P. B.]
- Lucas, Daniel, "*Dyscia emucidaria* Hb. (Lép. Geometridæ) est-elle une bonne espèce?" [in French]. *Bull. mens. Soc. linn. Lyon*, vol. 19: pp. 94-95. 1950. Concludes that name applies to a "form" of *D. fagarica*. [P. B.]
- Lucas, Daniel, "Contribution à l'étude des lépidoptères Nord-Africains" [in French]. *Bull. Soc. ent. France*, vol. 55: pp. 141-144. "1950" [1951]. Describes as new: (Noctuidæ) *Antitype anibalella* (Tunis), *A. amilcarella* (Foum-tatahouine, Tunisia); *Metachrostis incomposita* (Sid-bel-Abbès, Algeria); (Pyralidæ) *Heterographis boitelleta* (Sidi-bel-Abbès); *Syria parallelolincata* (Tunis); *Laodamia durandi* (Zarzis, Tunisia); *Actenia funebris* (Sid-bel-Abbès); *Paractenia rosians* (Sfax); (Tineidæ) *Euplocera variegata* (Sehoul, Morocco); *Tineola chnéourella* (Maknassy, Tunisia); (Ecophoridæ) *Depressaria amilcarella* (near Tunis); (Gelechiidæ) *Phthorimæa ochromaculata* (Nefta, Tunisia; larva on flowers of *Halocnemum strobilaceum*); *Borkhauseniana bederella* (Nefta); also 2 "forms." Only wing span and pattern mentioned. [P. B.]
- Lucas, D., "Nouveaux lépidoptères nord-africains" [in French]. *Bull. Soc. Sci. nat. phys. Maroc*, vol. 35: pp. 251-258. "1955" [1956]. Descriptions, with the Meyrick method, of new species, varieties, and aberrations of North African Heterocera, chiefly Microlepidoptera. The new species are: *Platytes bipunctellus*, *Heterographis buckwellella*, *H. indistinctella*, *H. ochreatella*, *H. bimatulata*, *Rhodophaea prestantella*, *Staudingeria griseopunctata*, *Pempelia marocanella*, *Pterothrix ifraneella*, *P. brunneella*, *Platytilia brunneodactyla*, *Actenia prospicualis*, *Metzneria confusalis*, *Aconysia tenebrosella*, *Aristotelia inconditella*, *Tachyptilia maculatella*, *Gelechia*

- buckwelli*, *G. brunneella*, *G. præstantella*, *Teleia ifranella*, *Symmoca egregiella*, *Blastobasis bilineatella*, *Prays elegantella*, *Scythris marocanella*, *Tinea buckwelli*, *T. fulvescentella*, *Deuterotinea auronitens*, *D. maculatella*, *Coleophora ifranella*. A large number of these new species, published in a short description without drawings, are certainly synonyms. The abbreviation "Roy" should be "Rag." (for Ragonot)! A poor paper. [P. V.]
- McDunnough, James H., "On the *Aster*- and *Solidago*-feeding species of the genus *Coleophora* in Nova Scotia (Lepidoptera, Coleophoridae)." *Amer. Mus. Novit.*, no. 1777: 20 pp., 7 figs. 1956. Describes as new *C. puberuloides* (Point Pleasant Park, Halifax; bred from *S. puberula*), *C. duplicis rugosæ* (Point Pleasant Park; bred from *S. rugosa*), *C. nemorella* (White Point Beach, Queens Co.; probable foodplant *A. nemoralis*). Notes on other spp. (foodplants in parentheses): *C. triplicis* (*S. sempervirens*), *C. dextrella* (*A. laterifolius*, *A. novi-belgii*), *C. intermediella* (*S. graminifolia*), *C. d. duplicis* (*A. shortii*), *C. ericoides* (*A. ericoides*), *C. bidens* (*A. umbellatus*). [P. B.]
- McDunnough, James H., "A study of the Apple Pistol-case Bearer and its allies in Nova Scotia (Lepidoptera, Coleophoridae)." *Amer. Mus. Novit.*, no. 1840: 10 pp., 8 figs. 1957. Redescribes *Coleophora anatipenella* (larva on apple) and *C. atlantica* (larva on willow); distinguishes latter from the European *C. albidella*. [P. B.]
- McDunnough, James H., "Synonymic and biological notes on Coleophoridae (Lepidoptera)." *Amer. Mus. Novit.*, no. 1827: 4 pp., 2 figs. 1957. Sinks *C. nigricella* and *C. cerasivorella* to *C. serratella*; *C. salmani* to *C. fuscadinella*. Proposes *paludoides* n.n. for *C. paludicola* McDunnough nec Stainton. Notes on *C. alticolella* and on *C. glis-sandella* (bred from *Juncus balticus*). [P. B.]
- Maeki, Kodo, "A use of chromosome numbers in the study of taxonomy of the Lepidoptera and notes on the internal reproductive anatomy." *Journ. Fac. Sci., Hokkaido Univ., Ser. VI, Zool.*, vol. 13: pp. 259-262, 6 figs. 1957. Records form of testes in larva, pupa, and adult, adult testis color, and haploid chromosome number, for 16 spp. of Japanese Papilionidae (*Parnassius*, *Luehdorfia*, *Graphium*, *Byasa*, *Papilio*). *Parnassius eversmanni* ($n=62$) is regarded as most primitive type in family. *G. sarpedon* ($n=20$) and *G. doson* ($n=30$) are closely related, and author assumes that 20 small chromosomes fused in pairs in the former sp. Transfer of *Papilio macilentus* to *Byasa* is suggested. [P. B.]
- Marion, H., "*Mecynia joannisalis* Marion ($=M. lutealis marocanensis$ Amsel)" [in German]. *Zeitschr. Wiener ent. Ges.*, vol. 41: p. 117. 1956. New synonymy. [P. B.]
- Marion, H., "Notes sur des espèces de pyrales nouvelles ou peu connues de Madagascar (Lepidoptera)" [in French]. *Naturaliste malgache*, vol. 8: pp. 225-242, 2 pls., 14 figs. "1956" [1957]. Notes on new and little-known species of pyralids from Madagascar. Descriptions of *Noorda millotalis*, *Eudoria ankaratrella*, *Ambia argentifascialis*, *Coptobasoides ochristalis*, *CRYPTOSARCA* (described by E. L. Martin) *radonialis* (type species), *ARGYROPHORODES* (type species: *luteivittalis* Mabille), *A. diehlalis*, *A. hydrocampalis*, *A. anosibalis*, *A. grisealis*. [P. V.]
- Marten, Werner, "Über *Ocnegyna zoraida* und *hemigena* (Graslin), (Lep., Arctiidae)" [in German]. *Ent. Nachrichtenbl. österr. und schweizer Ent.*, vol. 8: pp. 1-9, 2 pls. 1956. Regards these as southern (Spain) and northern (Pyrenees) races of a single sp., since they have been crossed and overlap in variation. Names 3 "vars."; discusses distribution and biology. [P. B.]
- Martin, Edward L., "African species of the genus *Pardomima* Warren (Lepidoptera: Pyralidae: Pyraustinae)." *Bull. Brit. Mus. (nat. Hist.), Ent.*, vol. 3: pp. 503-522, 1 pl., 43 figs. 1954. Describes as new *P. callixantha* (Mpeta, Loangua R., afl. of Zambesi), *P. telanepsia* (Fernando Po), *P. zanclophora* (Sunu, S. Kavirondo), *P. azancla* (Diego Suarez, Madagascar), *P. phaeoparda* (Sierra Leone); subgenus *PACHY-PARDA* (type *Lygropia distortana*), *P. (Pachyparda) margarodes* (Warri, S. Nigeria). Redescribes 6 spp., all assigned here for the first time (type of *Pardomima* is *amyntusalis*, Indomalayan). [P. B.]
- Martin, E. L., "Contribution à l'étude de la faune entomologique du Ruanda-Urundi. — Lepidoptera Pyralidae" [in English]. *Ann. Mus. Congo belge*, Tervuren, Zool., vol. 51: pp. 442-450, 14 figs. 1956. List of a collection of pyralids from Ruanda-Urundi (Belgian Congo) and Uganda, with descriptions of new spp.: *Ancylolomia planicosta*, *Ematheudes neonepsia*, *Diasemia oressarcha*, *Syngamia excisa*, *Pachyzancla cryptolepis*. [P. V.]

- Meier, Bernard, "*Parnassius apollo* L. de la Franche-Comte" [in French]. *Bull. Soc. ent. Mulhouse*, 1948: pp. 49-50. On correct name (*P. a. sequanus*) and taxonomic history of race. [P. B.]
- Mell, Rudolph, "Artbildung durch physiologische Differenzierung (chemotaktische Antizipation) in der Gattung *Rhopalocampta* Wall. (Lepidopt., Hesperiidæ)" [in German]. *Bonner zool. Beitr.*, vol. 1: pp. 86-91, 1 pl., 2 figs. 1950. Describes as new *R. smilacis* (Mahn tsi shan, N. Kuangtung; larva on *Smilax*). The sp. is identical in appearance to *R. benjamini*, but differs in ♂ genitalia, early stages and foodplant (larva of *benjamini* on Sabiaceae). The foodplant shift is said to have resulted in change in larval characters, of generic value or greater. Records foodplants of Hesperiidæ from S. China, showing shift from dicotyledons to monocotyledons in "higher" forms. [P. B.]
- Mere, Robin M., and J. D. Bradley, "*Pyrausta perlucidalis* (Hübner), a pyralid new to the British Isles." *Ent. Gazette*, vol. 8: pp. 162-166, 1 pl., 4 figs. 1957. Recorded and redescribed. [P. B.]
- Meyer, J. H., "Ein neuer *Catocala*-Hybrid" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 37: pp. 65-71, 1 pl. 1952. Describes hybrid between ♂ *C. fraxini* and ♀ *C. relicta*; compares all stages of spp. and hybrids. Sex ratio normal in hybrids; spp. evidently closely related. [P. B.]
- Minnion, W. E., and B. S. Goodban, "*Xanthorhoe biriviata* Bkh., in southern England (Lep.: Geometridæ)." *Ent. Gazette*, vol. 7: pp. 3-6, 2 pls. 1956. New British record. Good photos of adults of this and similar British spp. Describes larvæ and biology; foodplant *Impatiens fulva*. [P. B.]
- Moucha, Josef, "Sur la systématique de *Pieris bryoniae* O. (Lep. Pieridæ) des Carpathes" [in French]. *Bull. Soc. ent. Mulhouse*, 1956: pp. 61-67, 7 figs. Describes as new *P. b. marani* (Zadiel Valley, SE Slovakia), *P. b. carpathensis* (Osa, E. Carpathians), *P. b. vihorlatensis* (Remetské Hámre, Vihorlat Mts., Slovakia); also new "forms" of the first two. All new forms are figured. All spp. are geographical forms; the "forms" are the populations of the highest altitude with one generation only. Nomina nuda: *P. bryoniae* ssp. *carpathica* Müller 1939 and *P. napi* ssp. *fratraica* Stank 1947 (with the "form" gen. aest. *slovaca* Zelný 1956). [J. M.]
- Müller, Adolf, "Zur Morphologie der Schuppen des Flügelrandes einiger Arten der Gattung *Parnassius* Latr. (Lepidopt.)" [in German]. *Mitt. münchen. ent. Ges.*, vol. 46: pp. 311-317, 8 figs. 1956. Describes and figures characteristic marginal scales of forewings of: *P. e. eversmanni* and *P. e. sasai* (similar); *P. bremeri hakutozanus*; *P. phæbus sacerdos*; *P. p. styriacus*; *P. epaphus phariensis*; *P. t. tianshanicus*; *P. apollo loferensis* (said to be similar to those of *P. p. styriacus*). [P. B.]
- Muñoz, F. de Zayas, and P. Alayo Dalmau, "Confirmación de la presencia en Cuba del *Pholus strenua* (Ménétries)" [in Spanish]. *Mem. Soc. cubana Hist. nat.*, vol. 23: pp. 183-184, 1 fig. 1957. Briefly redescribes and figures this sp.; first definite record for Cuba. [P. B.]
- Munroe, Eugene, "North American components of the genus *Diasemia* of authors (Lepidoptera: Pyralidæ)." *Canad. Ent.*, vol. 89: pp. 164-170, 15 figs. 1957. Describes as new *Daulia arizonensis* (Huachuca Mts., Ariz.); *DIASEMIOPSIS* (type *Hydrocampa ramburalis*); *DIASEMIODES* (type *Desmia janassialis*). Transfers *Diasemia alaskalis* to *Udea*, *D. plumboignalis* to *Choristostigma*, *D. magdalena* to *Daulia*, *D. leodocusalis* to *Diasemiopsis*; key to these genera. *Diasemia* and *Diasemiodes janassialis* are not North American. [P. B.]
- Munroe, Eugene, "North American subspecies of *Pyrausta unifascialis* (Packard) (Lepidoptera: Pyralidæ)." *Canad. Ent.*, vol. 89: pp. 91-94, 7 figs. 1957. Describes as new *P. u. arizonensis* (Wildcat Creek, White Mts., Arizona); *P. u. rindgei* (Rancho La Sierra, Riverside Co., Calif.); notes on *P. u. unifascialis* and *P. u. subolivialis*. [P. B.]
- Murayama, Shu-iti, "An unrecorded *Danaus* species from Formosa" [in Japanese; English summary]. *Trans. lep. Soc. Japan*, vol. 8: pp. 12-13, 3 figs. 1957. Records *D. lotis edmondi* and compares it with other ssp. [P. B.]
- Murray, Desmond P., "The species of *Lepidochrysois*, *Euchrysois* and *Cupidopsis* of southern Africa. The genitalia (Lepidoptera-Lycanidæ)." *Ann. south Afr. Mus.*, vol. 43: pp. 109-121, 3 pls. 1956. Describes as new *L. major* ("Cape"). Figures ♂ genitalia of 35 spp. of these genera; records known foodplants. [P. B.]
- Nieuwenhuis, E. J., "Notes on Indo-Australian Lepidoptera." *Tijdschr. Ent.*, vol. 97: pp. 137-139, 1 pl. 1954. Describes as new *Idea leuconoe roepkei* (Gedong Biara Estate, Kuala Simpang, Atjeh Timur, NE Sumatra). Notes on *Appias libythea*, new to Sumatra. [P. B.]

- Norman, T., "Notes on the Lepidoptera of Assam. II — Some additions to the Assam list, and other notes." *Journ. Bombay nat. Hist. Soc.*, vol. 51: pp. 515-517. 1953. Redescribes *Lycænopsis ceyx cerima*. Describes larva and pupa of *Amblypodia amonoides elira*. Records of Lycænidae and Hesperiidæ. [P. B.]
- Novitzky, S., & H. Schneider, "*Apatura metis* Frr., ein verkannter Fund aus dem Jahre 1932" [in German]. *Ent. Nachrichtenbl. österr. und schweizer Ent.*, vol. 5: pp. 69-74, 1 fig. "1953" [1955]. Distinguishes *A. metis* from *A. ilia clytie*. Outlines distribution of former; new record for Austria. [P. B.]
- Obraztsov, Nikolaus, "Eine wenig bekannte und drei neue paläarktische Tortriciden-Arten" [in German]. *Zeitschr. Lepid.*, vol. 2: pp. 37-43, 6 figs. 1951. Describes as new *Barbara osmana* (Acipayan Bozdag, Turkey); *Eriopsele klimeschi* (1900 m., Gross-Glockner region, Carinthia); *Argyroploce ottomana* (Düzce Abant Ikipinar, Turkey). Redescribes *Cnephasia latana*. [P. B.]
- Obraztsov, Nicholas S., "Classification of holarctic species of the genus *Lobesia* Guenée, with description of *PARALOBESIA* gen. nov. (Lepidoptera, Tortricidae)." *Tijdschr. Ent.*, vol. 96: pp. 85-94, 5 figs. 1953. Type of new genus is *andereggiana*. Redefines *Lobesia*, placing *Polychrosis* as a monotypic subgenus. Lists spp. of *Lobesia* and *Paralobesia*, with synonymy. [P. B.]
- Obraztsov, Nikolaus, "Revision der paläarktischen Arten der Gattungen *Nyctea* Hb. und *ERSCHOVIELLA* gen. nov. (Lepidoptera, Nycteolidae)" [in German]. *Eos*, vol. 29: pp. 143-172, 12 figs. 1953. Describes as new *N. kuldzhana* (Aksu, central Asia), *N. gardzhana* (Jelissavetpol, Transcaucasia); *ERSCHOVIELLA* (type *N. musculana*); proposes *pseudodilutana* n. n. for *N. dilutana*. Redescribes spp. and describes variation, naming numerous "forms." Key to separate these genera and *Characoma*. [P. B.]
- Obraztsov, Nikolaus, "Zur Nomenklatur von *Crambus craterellus* auct. und *Crambus cassentinellus* Z. (Lepidoptera, Pyralididae)" [in German]. *Zeitschr. svener ent. Ges.*, vol. 39: pp. 254-257. 1954. *C. craterellus* is the same as *cassentinellus* (a junior synonymy); *craterellus* auctt. is another sp. which must be known as *rorellus*. Sinks *C. klimeschi* and *C. stachiellus* to *C. rorellus* and places *C. defessellus* as ssp. of latter. Gives bibliography for these spp. and their synonymys. [P. B.]
- Obraztsov, Nicholas, "Species of the *Amata* (*Syalomis*) *pfeifferæ* group (Lepidoptera: Ctenuchidae)." *Psyche*, vol. 62: pp. 29-34, 4 figs. 1955. Describes as new *A. borneogena* (Lundu Mt., Kuching, Sarawak). Notes on *A. pfeifferæ*, *A. quadripunctata*, and *A. acuminata*. [P. B.]
- Obraztsov, Nikolaus, "*COCHYLIDIA* gen. nov., eine neue Phaloniiidæ-Gattung, nebst Beschreibung einer neuen Art aus Deutschland (Lepidoptera)" [in German]. *Mitt. münchen. ent. Ges.*, vol. 46: pp. 14-20, 12 figs. 1956. Type of new genus is *Tortrix subroseana* Haworth; sinks *heydeniana*, *griseolana*, and *trafvenfelti* to *subroseana*, and *sabulicola* to *erigerana*. Describes as new *C. amseli* (Roschwitz, Anhalt, Germany). Catalogue of 10 spp. assigned to *Cochylidia*. [P. B.]
- Obraztsov, Nicholas S., "*Hemimene immaculata* Danil., a preoccupied name (Lepidoptera: Tortricidae)." *Ent. News*, vol. 67: p. 139. 1956. Species is congeneric with *Dichrorampha immaculata* McD. [P. B.]
- Obraztsov, Nicholas S., "Some new species of *Geryx* Wallengren (Lepidoptera, Ctenuchidae)." *Tijdschr. Ent.*, vol. 100: pp. 67-71. 1957. Describes as new *C. darlingtoni* (Atherton Tableland, L. Barrine, N. Queensland, 2800 ft.), *C. calcuni* ("Java Sea"), *C. giloloënsis* (Kalam, Gilolo Is., Moluccas), *C. vespella* (Gempel, E. Java), *C. morobeensis* (Wau, Morobe district, New Guinea), *C. homæochroma* (Fort de Kock, 920 m., Sumutra), *C. riouensis* (Durian Is., Riou Archipelago), *C. toxopeusi* (Emmahaven, Sumutra). [P. B.]
- Obraztsov, Nicholas, "The Chinese *CÆNERESSA* species (Lepidoptera, Ctenuchidae)." *Bull. Mus. comp. Zool., Harvard*, vol. 116: pp. 387-437, 4 pls. 1957. Separates new genus from *Amata*; no type named! Describes as new *C. proxima* (Lienping, Kwangtung Prov.), *C. klapperichi* (Kuantun, Fukien Prov., 2300 m.), *C. hoenei* (Tapaishan in Tsinling, Shensi Prov., 1700 m.), *C. dispar* (Kuantun, 2300 m., Fukien Prov.), *C. zernyi* (Shinchow near Canton, Kwangtung Prov.), *C. ningyuenia* (mountains near Ningyuenfu, Szechwan Prov.), *C. diaphana hunanensis* (Hoengshan, Hunan Prov., 900 m.), *C. tienmushana* (W. Tienmushan, Chekiang Prov.), *C. rubrozonata eurymlæna* (Mokanshan near Hangchow, Chekiang Prov.). Keys to 14 spp.; some new synonymy and changes of status. [P. B.]

- Ogata, Masami, "Eine neue *Diarsia*-Art (Noctuidæ) aus Japan" [in German; Japanese summary]. *Trans. lep. Soc. Japan*, vol. 8: pp. 14-15, 2 figs. 1957. Describes as new *D. nipponica* (Hirayu, Gifu Prov.). [P. B.]
- Oiticica Filho, José, "Sôbre a fêmea de *Procitheronia purpurea* (Draudt, 1930). (Lepidoptera, Citheroniidæ)" [in Portuguese]. *Bol. Mus. nac., Rio de Janeiro, Zool.*, no. 125: 17 pp., 11 pls. 1955. First description of ♀. [P. B.]
- Oiticica Filho, José, "Sôbre duas fêmeas do genero *Eacles* Hübner, [1819]. (Lepidoptera, Citheroniidæ)" [in Portuguese]. *Bol. Mus. nac., Rio de Janeiro, Zool.*, no. 125: 17 pp., 11 pls. 1955. First descriptions of ♀♀ of *E. guianensis* and *E. fairchildi*. [P. B.]
- Oiticica Filho, José, "Tipos de Saturnioidea no United States National Museum. 1. — Gênero *Eacles* Hübner, [1819]. (Lepidoptera, Citheroniinæ)" [in Portuguese]. *Bol. Mus. nac., Rio de Janeiro, Zool.*, no. 137: 53 pp., 40 figs. 1956. On 6 South American spp. described by Schaus; repeats original descriptions; summarizes taxonomic history; selects lectotypes of *E. masoni* and *E. ormondei*; describes types (labelling, location, sex) and figures specimens and genitalia. [P. B.]
- Oiticica Filho, José, "Tipos de Sturnioidea no United States National Museum. 2. — Gênero *Bathyphlebia* Felder, 1874 (Lepidoptera, Citheroniinæ)" [in Portuguese]. *Bol. Mus. nac., Rio de Janeiro, Zool.*, no. 138: 11 pp., 7 figs. 1956. *B. eminens*; selects lectotype. [P. B.]
- Oiticica Filho, José, "Tipos de Saturnioidea no United States National Museum 4 — Genero *Paradæmonia* Bouvier, 1925 (Lepidoptera, Arsenurinae)" [in Portuguese]. *Bol. Mus. nac., Rio de Janeiro, Zool.*, no. 152: 9 pp., 6 figs. 28 Feb. 1957. *P. samba*. [P. B.]
- Okano, Masao, "Eine neue Subspecies von *Nударidia ochracea* Bremer aus Japan" [in German and English]. *Ent. Nachrichtenbl. österr. und schweizer Ent.*, vol. 8, no. 3: pp. 1-2, 2 figs. "1956" [1957]. Describes as new *N. o. japonica* (Morioka, Iwate Pref., N. Honshu). [P. B.]
- Okano, Masao, "Une nouvelle espèce d'*Eilema* (Arctiidæ, Lithosiinæ) de Japon" [in French; Japanese summary]. *Trans. lep. Soc. Japan*, vol. 8: p. 16, 4 figs. 1957. Describes as new *E. izwatensis* (Nii-yama, Shiwagun). [P. B.]
- Okano, Masao, and Nobuo Doi, "A new subspecies of *Erebia nipponica* Janson from North Honshu, Japan." *Trans. lep. Soc. Japan*, vol. 8: p. 7. 1957. Describes as new *E. n. gassana* (Mt. Gassan, N. Honshu). [P. B.]
- Opheim, Magne, "*Aporophyla nigra* (Haw.) synonymous with *Noctua lunula* Strøm 1768 (Lep. Agrotidae)." *Univ. Bergen Arbok*, 1955, no. 2: 10 pp., 1 pl., 2 maps. 1955. Strøm's name has priority; synonymy based on original description, figure, and distribution. Shows northern distribution of *A. nigra* and *Melandra persicariae*. [P. B.]
- Orfila, Ricardo N., "Cambios nomenclatoriales en Nymphalidæ (Lep.)" [in Spanish]. *An. Soc. cient. argentina*, vol. 154: pp. 102-104. 1952. Proposes new tribes CALLICORINI (for Catagrammini, based on junior synonym of *Callicore*) and CATONEPIELINI (for Epicaliini, based on junior synonym of *Catanephele*). Sinks Ergolini to Eurytelini. [P. B.]
- Overlaet, F. G., "Nymphalides africains nouveaux" [in French]. *Lambillionea*, vol. 56: pp. 77-78, 1 fig. 1956. Redescribes *Neptis roberti* Eltgrh. [P. V.]
- Ozorski, E., "Apropos de *Zygæna filipendule* L." [in French]. *Bull. Soc. ent. Mulhouse*, 1947: pp. 91-92. Notes on some French races. [P. B.]
- Ozorski, E., "Tableau de détermination des espèces françaises des genres *Scopula* Schr. et *Sterrha* Hb." [in French]. *Bull. Soc. ent. Mulhouse*, 1948: pp. 1-6, 9-12, 17-22, 1 pl. Distinguishes genera and species groups and gives artificial key to spp. based on pattern. [P. B.]
- Pactl, Jiří, "On some Hepialidæ (Lepidoptera) from Patagonia. Critical remarks on the Report Nr. 11 from the Ljungner's Expedition 1932-1934." *Tijdschr. Ent.*, vol. 91: pp. 149-152, 2 figs. 1949. Redescribes *Æpytus dimidiatus*; sinks *Huapina parvigitata* to *Dalaca venosa*. [P. B.]
- Pactl, Jiří, "*Polychrosis vitisana* (Jacq. 1788) comb. nov., or new synonymy in an important pest of the grape-vine (Lepidoptera Tortricidæ)." *Ent. Berichten*, vol. 14: p. 379. 1953. Substitutes *vitisana* for *botrana* on assumption that latter is a nomen nudum. [P. B.]
- Pastrana, José A., "Dos nuevas especies de Orneodidæ de la Argentina y Paraguay" [in Spanish]. *An. Soc. cient. argentina*, vol. 152: pp. 116-126, 9 figs. 1951. Describes as new *Orneodes proseni* (Jujuy, Argentina), *O. bridarollii* (Icua Pindó, Paraguay). [P. B.]

- Pastrana, José A., "Une neuva peste en *Jodina rhombifolia* de la Argentina (Lep.: Grapholitidae)" [in Spanish; English summary]. *An. Soc. cient. argentina*, vol. 154: pp. 65-77, 13 figs. 1952. Describes as new *RICULOIDES* (monobasic), *R. gallicola* (Buenos Aires); also describes and figures larva and pupa. [P. B.]
- Pastrana, José A., "Una neuva especie de Chrysaugidae en nidos de avispa" [in Spanish; English summary]. *Acta zool. liloana*, vol. 13: pp. 201-205, 5 figs. 1953. Describes as new *CAPPSSIA* (monobasic), *C. bourquini* (Jujuy, Argentina; larva in wasp nest. [P. B.]
- Pekarsky, Paul, "*Parnassius apollo* L. in den Karpaten; seine Geschichte und Formbildung" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 39: pp. 137-152, 194-200, 219-227, 257-264, 289-293, 327-335, 352-356, 9 pls., 1 map. 1955. Discusses Carpathian races; repeats original descriptions, figures many specimens, describes distribution, probable origin, and biology. [P. B.]
- Perry, M. E. St. John, "Discovery of the hitherto unknown female of the butterfly *Charana cepheis* de Niceville." *Journ. Bombay nat. Hist. Soc.*, vol. 47: p. 177. 1947. Briefly described. [P. B.]
- Pfeiffer, Hermann, "*Parnassius apollo* L. subsp. *markerti* n. subsp., eine neue Rasse von der Schwäb Ostalb" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 39: pp. 126-129, 2 pls. 1954. Type locality Herbrechtingen. Also names a "form." [P. B.]
- Picard, J., "Notes sur les Hesperiidæ" [in French]. *Bull. Soc. ent. Mulhouse*, 1948: pp. 33-35, 6 figs. 1948. ♀♀ of *Thymelicus lineola* and *T. sylvestris* can be separated by black color of under surface of antennal club in former. Names 3 "forms" of *Pyrgus carthami*; notes on a "form" of *P. alveus*. *Reverdinus floccifer* new to Alsace. [P. B.]
- Picard, J., "Études sur les Hesperiidæ du Maroc" [in French]. *Bull. Soc. Sci. nat. Maroc.*, vol. 28: pp. 110-135. 1950. Describes as new *Thymelicus acteon* "race" *maurus* (Casablanca) and *T. lineola* "race" *ifraensis* (Ifrane); also several infra-subspecific "races" and "forms." Gives a key to the 17 Moroccan spp. of Hesperiidæ; compares fauna with that of adjacent regions; briefly discusses each sp. and gives collecting localities. [P. B.]
- Pinhey, E. C. G., "Some new species of Lepidoptera from eastern Africa." *Occ. Pap. Coryndon Mus.*, Nairobi, no. 4: pp. 10-16, 1 pl., 2 figs. 1956. Describes as new: (Noctuidæ) *Timora adamsoni* (Isiolo, Kenya), *T. showaki* (Showak, S. Sudan), *T. crofti* (Mwadui, Shinyanga, Tanganyika), *T. roseata* (Showak, Sudan), *T. mittoni* (Iringa, S. central Tanganyika); (Arctiidæ) *Rhodogastria horwardi* (Amani, Tanganyika); (Acræidæ) *Acræa punctimarginea* (Kimboza Forest, Uluguru Mts., near Morogoro, Tanganyika). Figures adults, and ♂ genitalia of most. [P. B.]
- Pinker, Rudolf, "Eine interessante Sesie und Mazedonien" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 39: pp. 182-185, 1 pl. 1954. Describes as new *Chamaesphacia myrsinites* (Orchid, Macedonia; reared from *Euphorbia myrsinites*. [P. B.]
- Povolny, D., and F. Gregor, "Einige neue Microlepidopteren aus dem Mediterrangebiet" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 40: pp. 81-87, 1 pl., 5 figs. 1955. Describes as new *Lithocolletis amseli* (Herzegovni Igalo); *Gnorimoschema pseudobsoletellum* (S. end of Dead Sea), *G. reisseri* (Porto Santoru, Sardinia), *G. mirabile* (Jericho, Palestine). [P. B.]
- Povolny, Dalibor, "Einige Gesichtspunkte und kritische Bemerkungen zum Artproblem von *Zygæna purpuralis* Brünnich" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 41: pp. 225-231. 1956. Critique of paper by Reiss, 1955; believes that distinction made between *Z. purpuralis* and *Z. sareptensis* is based on incomplete knowledge of variation in habits and morphology, and that no sharp line can be drawn which would permit separation of latter sp. [P. B.]
- Povolny, D. and J. Moucha, "On the high mountain Geometridæ of the genus *Psodos* Tr. 1828 with regard to their species in the mountains of Czechoslovakia and to the question of the origin of a species in mountain region" [in English; Czech and Russian summaries]. *Acta ent. Mus. nat. Pragæ*, vol. 30: pp. 143-179, 13 pls. 1956. Systematic and zoogeographical study about *Psodos*. The phylogeny is discussed with special regard to the Carpathians. As new are described: *TRIGLAVIA* n. subgenus (type *spitzi* Rebel 1906); *TREPIDINA* n. subgenus (type *canaliculata* Hochw. 1785); *ALPINA* n. subgenus (type *alpinata* Esp. 1786). *P. schwingenschussi* Whli. is not a good sp., but only a ssp. of *P. canaliculata*. *P. (A.) coracina pseudonoricana* nom. emend. (type Carniola: Triglav Mt.). [J. M.]

- Povolny, Dalibor, and Jiri Smelhaus, "*Procris soror* Rambur — *hispania* Alberti en France" [in French]. *Bull. Soc. ent. Mulhouse*, 1950: pp. 67-68, 4 figs. Figures genitalia of *P. soror*; reviews distribution. [P. B.]
- Prentice, R. M., "The life history and some aspects of the ecology of the Large Aspen Tortrix, *Choristoneura conflictana* (Wlkr.) (n. comb.) (Lepidoptera: Tortricidæ)." *Canad. Ent.*, vol. 87: pp. 461-473, 3 pls. 1955. Describes all stages and genitalia. Foodplant normally *Populus*, but larvæ also on *Betula*, *Salix*, *Prunus*, and *Alnus*, during outbreaks. Notes on biology. Records numerous parasites and a fungus disease [P. B.]
- Razowski, Józef, "Eine neue südeuropäische Art der Gattung *Cnephasia* Curt. (Lep., Tortricidæ)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 40: pp. 264-266 4 figs. 1955. Describes as new *C. (Brachycnephasia) taurominana* (Taormina, Sicily); figures ♂ genitalia and those of *C. gueneana*. [P. B.]
- Razowski, Józef, "Eine neue Art *Tortricodes* Guen., und Bemerkungen über zwei von Felipiev aus der Gattung *Cnephasia* beschriebene Arten (Lepidoptera, Tortricidæ)" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 41: pp. 204-208, 1 pl., 9 figs. 1956. Describes as new *T. violellus* ("S. Maria d. Lago"). Figures adults and genitalia of *C. maroccana* and *C. atlantis*. Names a new "form" (geographically isolated?) of *C. nervana*. [P. B.]
- Réal, P., "Trois espèces nouvelles de *Cnephasia* (Lép. Tortricidæ) du Sud-est de la France" [in French]. *Bull. mens. Soc. linn. Lyon*, vol. 20: pp. 223-230, 5 figs. 1951. Describes as new *C. (C.) orthoxyana* (St.-Cyr-au-Mont-d'Or, Rhône; larva on *Armeniaca* and *Scrofularia aquatica*); *C. (Hypostephanuncia) ecullyana* (Ecully, Rhône; larva on *Saxifraga*, *Teucrium*, and *Geranium*); *C. (Abalbia) rielana* (Basses-Alpes). [P. B.]
- do Rego-Barros, Alfredo Rei, "Contribuição ao estudo da família Arctiidae. IV. — Rediagnose de *Hemihyalea* Hampson, 1901 e de algumas espécies, com a descrição de dois novos gêneros (Lepidoptera-Heterocera)" [in Portuguese]. *Bol. Mus. nac.*, Rio de Janeiro, *Zool.*, no. 134: 65 pp., 12 pls., 11 figs. 1956. Describes as new *MACHADOIA* (type *H. xanthosticta*); *PSEUDOHEMIHYALEA* (type *H. rhoda*). Redescribes these spp., genus *Hemihyalea*, *H. cornea*, *H. daraba*, *H. fusca columbiana*, and *H. diminuta*; lists spp. of *Hemihyalea*. [P. B.]
- do Rego-Barros, Alfredo Rei, "*LEPIDONEWTONIA* novo gênero para *Halisdota acuta* Hampson, 1901 (Lepidoptera-Heterocera)" [in Portuguese]. *Bol. Mus. nac.*, Rio de Janeiro, *Zool.*, no. 140: 11 pp., 18 figs. 1956. Redescribes sp. in great detail. [P. B.]
- do Rego Barros, Alfredo Rei, "Nova combinação para *Automolis cruenta* Rothschild, 1909 (Lepidoptera, Heterocera, Arctiidae)" [in Portuguese]. *Rev. brasil. Biol.*, vol. 17: pp. 169-172, 12 figs. 1957. Redescribes sp. and transfers it to *Ernassa*. [P. B.]
- do Rego Barros, Alfredo Rei, "Fauna do Distrito Federal. XXXIV. Novo gênero para *Halisdota leucanina* Feld., 1874 (Lepidoptera-Heterocera)" [in Portuguese]. *Bol. Mus. nac.*, Rio de Janeiro, *Zool.*, no. 132: 19 pp., 4 pls., 4 figs. 1956. Proposes *LEUCANOPSIS* n.g. for *H. leucanina*; redescribes sp. [P. B.]
- do Rego-Barros, Alfredo Rei, "Fauna do Distrito Federal XLV — sobre uma nova espécie do gênero *Cresera* Schaus, 1894 (Lepidoptera-Heterocera)" [in Portuguese]. *Bol. Mus. nac.*, Rio de Janeiro, *Zool.*, no. 151: 9 pp., 2 pls., 2 figs. 1957. Describes as new *C. tinguensis* (Tinguá, Reprêsa Boa Esperança, E. Rio (State), Brazil). [P. B.]
- do Rego Barros, Alfredo Rei, "*ROMUALDIA* novo gênero para *Amastus opharina* Schaus, 1921 (Lepidoptera, Heterocera, Arctiidae)" [in Portuguese]. *Rev. brasil. Biol.*, vol. 17: pp. 89-96, 19 figs. 1957. Redescribes sp. [P. B.]
- van Regteren Altena, C. O., "Macrolepidoptera collected in Tenerife and La Palma in the spring of 1947." *Tijdschr. Ent.*, vol. 91: pp. 12-22, 6 figs. 1949. Describes as new *Cupido lysimon corneliae* (Teneriffe); *Amicta cabrerai palmiensis* (La Palma). *Plusia limbirena* new to Canary Islands. List of 39 spp. (butterflies, Sphingidæ, Noctuidæ, Geometridæ, Psychidæ) with systematic notes. [P. B.]
- Reiss, Hugo, "Altes und neues über *Zygena sareptensis* Krul. (Lep.) im besonderen ihre bis jetzt festgestellte Verbreitung" [in German]. *Zeitschr. wiener ent. Ges.*, vol. 40: pp. 283-291, 3 pls., 1 map. 1955. Distinguishes sp. from *Z. purpuralis* on basis of morphology, foodplant, habitat, and habits. Describes distribution of foodplant of *Z. sareptensis* (*Pimpinella saxifraga*) and of sp. and its races. [P. B.]
- Riley, N. D., "The lectotype of *Colias australis* Verity (Lep. Pieridæ)." *Ent. Rec. & Journ. Var.*, vol. 66: pp. 35-36, 2 figs. 1954. Type selected and figured; type locality

- Andalusia. [P. B.]
- Riley, N. D., "The generic names *Phalaena*, *Noctua*, *Geometra* and others." *Entomologist*, vol. 9: pp. 162-163. 1957. Brief summary of Opinion 450, noting suppression of *Phalaena*; lists Linnaean moth genera and their types. [P. B.]
- Rindge, Frederick H., "A revision of some species of *Pero* from the western United States (Lepidoptera, Geomtridæ)." *Amer. Mus. Novit.*, no. 1750: 33 pp., 20 figs. 1955. Describes as new *P. mizon* (Spring Creek, near Baker, Baker Co., Oregon); foodplants *Ribes sanguineum*, *Alnus rubra*, and *Spiraea discolor*; *P. behrensarius daulus* (Spring Mt., Napa Co., California), *P. b. sperryi* (Kaibab Lodge, Coconino Co., Arizona), *P. occidentalis canaster* (upper Santa Ana R., San Bernardino Co., California), *P. o. helvus* (Saw Mill Spring, Charleston Mts., Nevada). Places *vanduzeeata*, *smithii*, and *modocata* as ssp. of *P. behrensarius*, *packardi* as ssp. of *occidentalis*. Sinks *provoensis* to *P. giganteus*, *patriciata* to *P. occidentalis peplarioides*. Descriptive notes on these spp. and *P. mcdunnoughi*, including notes on ♀ genitalia. [P. B.]
- Robertson, J. G., "Paper chromatography in insect taxonomy." *Canad. Journ. Zool.*, vol. 35: pp. 411-419, 2 figs. 1957. Technique applied to a variety of insects, including 7 Lepidoptera (4 families). The incomplete discussion of results and figures does not allow evaluation of the technique by one unfamiliar with chromatography, but this is said to be a promising approach to taxonomic problems. [P. B.]
- Roche, Patrick, "Revisional notes on the genus *Epitola* Westwood (Lepidoptera: Lycænidae)." *Bull. Brit. Mus. nat. Hist. Ent.*, vol. 3: pp. 489-502, 4 pls. 1954. Describes as new *E. flavoantennata* (Bitje, Ja R, 2000 ft., Cameroons), *E. carilla* (Entebbe, Uganda), *E. jacksoni* (Katera, Uganda), *E. convexa* (Bwamba, Uganda), *E. intermedia* (Katera, Uganda), *E. ikuya* (Lagos, S. Nigeria), *E. subcaerulea* (Sierra Leone), *E. dolorosa* (Bwamba Forest, Semliki Valley, Uganda), *E. ghesquierei* (Eala, Belgian Congo), *E. orientalis* (Bwamba, Uganda), *E. daveyi* (Isoba, SE Nigeria), *E. liana* (Bwamba, Uganda). Gives first descriptions of ♂♂ of *E. carpenteri*, *E. virginea*, and *E. cepheia*. Checklist of spp., and key based on ♂ external appearance; ♀♀ very difficult to associate correctly with ♂♂, and genitalia said to be useless. [P. B.]
- Roepke, W., "Lepidoptera Heterocera, gesammelt von Dr. F. Schneider in Sumatra" [in German]. *Mitt. schweiz. ent. Ges.*, vol. 24: pp. 377-400, 11 figs. 1951. Describes as new: (Notodontidæ) *Stauropus* (?) *grisescens* (said in addendum to be ♀ of his *Stauropodopsis grisescens*, probably); (Drepanidæ) *NEOPHALACRA* (monobasic), *N. laticornis*; (Epiplemidæ) *Epiplema schneideri*; (Noctuidæ) *Athyrma simplex*. Description of collection made at Gunnung Malaju, Asahan Province, NE Sumatra; records in all 133 spp. (Sphinidæ, Notodontidæ, Bombycidæ, Lasicampidæ, Zygaenidæ, Lithosiidæ, Lymantriidæ, Drepanidæ, Epiplemidæ, Microniidæ, Thyrididæ, Noctuidæ, Geometridæ, Pyralidæ). Gives ranges of spp. and descriptive notes on some. [P. B.]
- Roepke, W. K. J., "Over de Cossidae van Indonesië" [in Dutch]. *Tijdschr. Ent.*, vol. 95: p. xix. 1952. Preliminary note; 3 new generic names given, without description here. [P. B.]
- Roepke, "Aantekeningen over Synonymie" [in Dutch; English summary]. *Ent. Berichten*, vol. 14: pp. 364-365. 1953. Notes on distribution of Indonesian *Dudusa* spp. Sinks *Entomogramma falcata* to *Tirovaca subcostalis*, and *Acygonia difformis* to *Chilcasa falcata*. [P. B.]

H. MIGRATION

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- Nielsen, Astrid, & Erik Tetens Nielsen, "Migrations of the pieride butterfly *Ascia monuste* L. in Florida." *Ent. Meddelelser*, vol. 26: pp. 386-391, 3 figs. 1952. Summary of results, published more fully in *American Mus. Bull. & Novitates*. [P. B.]
- Owen, D. F., "A migration of insects at Spurn Point, Yorkshire." *Ent. Mo. Mag.*, vol. 92: pp. 43-44. 1956. *Vanessa* spp. & *Pieris* spp., with syrphid flies. [P. B.]
- Ryszka, Hans, "Ein Wanderflug von *Pieris brassicae* L." [in German]. *Ent. Nachrichtentbl.*, Vienna, vol. 3, no. 6: pp. 6-7. 1956. Reports apparent migration in Austrian mountains. [P. B.]
- Sevastopulo, D. G., "Field notes from East Africa (6)." *Entomologist*, vol. 85: pp. 181-184. 1952. Includes notes on migrations of *Catopsilia florella*, *Glycesthes creona infida*, *Achea catocaloides*, etc.; also miscellaneous biological notes. [P. B.]

- Snow, D. W., & K. F. A. Ross, "Insect migration in the Pyrenees." *Ent. mo. Mag.*, vol. 88: pp. 1-6, 1 fig. 1952. On movement into Spain through narrow passes of butterflies (especially *Colias croceus*, *Pieris rapae*, *Vanessa atalanta*) and other insects. Numbers of migrating insects increased with force of contrary wind up to point where they could not progress against it. [P. B.]
- Tillman, E., & G. Warnecke, "Einwanderung des livornischen Schwärmers (*Deilephila lineata* F. subsp. *livornica* Esp.) 1946 in Europa" [in German]. *Bombus*, no. 34: pp. 149-150. 1947. Migration records.
- Timms, Cartwright, "The migration of butterflies." *Discovery*, vol. 8: pp. 375-376. 1947. Popular article, referring mainly to British immigrants. [P. B.]
- Valletta, Anthony, "*Vanessa cardui* Linn. and other migrants in Malta in 1952." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 279-280. 1952.
- Valletta, Anthony, "*Danaus chrysippus* (L.) var. *alcippus* Cram. revisits Malta (Lep., Danaidæ)." *Entomologist*, vol. 86: p. 57. 1953.
- Warnecke, G., "Massenaufreten von *Plusia gamma* L. 1946" [in German]. *Bombus*, no. 36: pp. 157-158. 1947. Immigration through Europe from N. Africa. [P. B.]
- Warnecke, G., "1947, ein Flugjahr für den Kiefernspanner, *Dendrolimus pini* L." [in German]. *Bombus*, no. 41: pp. 177-178. 1947. Outbreak & migration in N. Germany. [P. B.]
- Warnecke, G., "Zur Beobachtung von Wanderschmetterlingen" [in German]. *Bombus*, no. 46: pp. 197-198. 1948. Notes on information needed about insect migration; list of migrants in NW Germany. [P. B.]
- Warnecke, Georg, "*Rhodometra saccharia* L. als Wanderfalter" [in German]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 4: p. 1. 1950. Notes on immigration into N. Europe. Flights seem to be concentrated, perhaps because of air currents; in 1947, when 1250 were taken in England, none were recorded in Holland & only 1 in Germany. [P. B.]
- Warnecke, Georg, "Wanderfalter 1946 und 1947 in Deutschland" [in German]. *Zeitschr. Lepid.*, vol. 1: pp. 7-10, 85-94, 165-173. 1950; 1951. Lists European migrant Lepidoptera and information needed about migration; summarizes records for 1946 (16 spp.) & 1947 (18 spp.). [P. B.]
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- Westmacott, M. H., & C. B. Williams, "A migration of Lepidoptera and Diptera in Nepal." *Entomologist*, vol. 87: pp. 232-234. 1954. Including *Pieris brassicae*, *Colias fieldi*, *Terias hecabe*, & *Lampides baticus*; flight over 12,000 foot pass. [P. B.]
- Williams, C. B., "Notes on some migrations of butterflies in West Africa." *Entomologist*, vol. 87: pp. 203-206. 1954. Flights of *Libythea labdacca* & *Atella phalanta*. [P. B.]
- Williams, C. B., I. F. B. Common, R. A. French, Vera Muspratt, & M. C. Williams, "Observations on the migration of insects in the Pyrenees in the autumn of 1953." *Trans. Roy. ent. Soc. London*, vol. 108: pp. 385-407, 2 pls., 4 figs. 1956. September & October observations at 2 passes & on narrow Mediterranean coastal strip; 11 butterflies & 2 moths recorded, among other insects. A general southward movement probably takes place throughout region; *Pieris rapae* & *Colias croceus* were the most numerous migrants. Movement independent of wind direction; limited to sunny days, resulting in build-up of population in northern lowlands (where fair weather is more general) and great concentrations in passes on sunny days. Source of migrants unsettled; destination unknown. [P. B.]
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- Wincott, S. C., "An unrecorded migration of *Vanessa cardui* Linn." *Ent. Rec. & Journ. Var.*, vol. 66: p. 27. 1954. In North Africa, 1943. [P. B.]
- Wingstrand, Karl Georg, "Migration of *Pieris brassicae* over The Sound (Oresund)" [in Swedish; English summary]. *Opusc. Ent.*, vol. 14: p. 184. 1949. Westward migration, at right angles to wind, from SW corner of Sweden toward Denmark. [P. B.]
- Wolff, Niels L., "*Celerio lineata livornica* Esp. immigration in Denmark 1952" [in Danish; English summary]. *Ent. Meddelelser*, vol. 26: pp. 590-606, 1 map. 1954. Data on massive flight (52 specimens captured in Denmark; only 6 previous captures) and on migration into other countries of NE Europe. [P. B.]
- Wolfsberger, Josef, "Wanderfalterbeobachtungen 1954 in Südbayern" [in German]. *Nachrichtenbl. bayer. Ent.*, vol. 4: pp. 26-29. 1955. Notes on immigration of 12 spp. (butterflies, sphingids, noctuids, 1 geometrid) in Bavaria. [P. B.]

I. TECHNIQUE

- Acharya, R. C., S. K. Prasad, M. K. Ghosh, B. Acharya, & K. L. Khanna, "Studies in sampling technique. VIII. Estimation of incidence of sugarcane borers in a field." *Proc. Indian Acad. Sci., B*, vol. 45: pp. 140-148. 1957. Statistical methods.
- Allan, P. B. M., "P. D. B. and mould." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 55-56. 1952. Reports paradichlorbenzene crystals causing total disappearance of mold filling specimen box. [P. B.]
- Allan, P. B. M., "Preserving larvæ." *Ent. Rec. & Journ. Var.*, vol. 67: p. 159. 1955. Recommends fluid used to preserve anatomical specimens. [P. B.]
- Amanshauser, Hermann, "Verbesserung am Fangglas" [in German]. *Ent. Nachrichtenbl.*, Vienna, vol. 1: p. 29, 1 fig. 1954. Recommends attaching piece of celluloid to cork of killing bottle; this can be used to slide under moth which has been covered with the bottle, to get it in without smashing or losing it. [P. B.]
- "An Old Moth Hunter" [P. B. M. Allan], "The Oak Prominents." *Ent. Rec. & Journ. Var.*, vol. 63: pp. 282-285. 1951. Mainly on collecting techniques for early stages of *Drymonia dodonæa*. [P. B.]
- "An Old Moth Hunter" [P. B. M. Allan], "Blocks versus boards." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 357-358. 1952.
- "An Old Moth Hunter" [P. B. M. Allan], "Thoughts on setting Lepidoptera." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 208-211, 1 pl. 1952. On making & using setting blocks, which the author regards as superior to boards in every way. [P. B.]
- "An Old Moth Hunter" [P. B. M. Allan], "Larva-hunting in the spring." *Ent. Rec. & Journ. Var.*, vol. 66: pp. 146-148. 1954. On collecting larvae at night. [P. B.]
- Anderson, Lauren D., & Metta McD. Johnson, "Use of mirrors to display butterflies." *Journ. Kansas Ent. Soc.*, vol. 29: pp. 41-43, 1 fig. 1956. Mounting of exotic butterflies on pins between slips of mirrors, so that the underside is reflected. [W. C.]
- Backs, R. H., "A new method for handling insect eggs." *Canad. Ent.*, vol. 87: p. 344. 1955. Static charge on a sheet of the plastic Saran Wrap is sufficient to hold eggs in place for examination or weighing. [P. B.]
- Bancroft, T. H., T. A. Brindley, Robert Bowles, & P. C. Tang, "The fall population European Corn Borer survey." *Iowa State Coll. Journ. Sci.*, vol. 29: pp. 61-74. 1954. Sampling procedures & statistical methods for estimating *Pyrausta nubilalis* populations. [P. B.]
- Bennett, William H., "Technique for mounting microfrenate Lepidoptera." *Entomologist*, vol. 87: p. 37. 1954.
- Bourgogne, J., "Conseils relatifs aux procédés et au matériel de récolte, de préparation et de rangement des lépidoptères" [in French]. *Rev. Franç. Lépid.*, vol. 15: pp. 76-85. 1956. Notes on collecting, setting, & arranging Lepidoptera by a standard method. [P. V.]
- Bowater, W., "Labelling specimens." *Ent. Rec. & Journ. Var.*, vol. 65: pp. 89-90. 1953. Proper technique.
- Bowden, S. R., "Cold storage of over-wintering pupæ of Pieridæ (Lep.)." *Entomologist*, vol. 86: pp. 85-88. 1953. Emergence period of pupæ kept at 1° C. and removed simultaneously is greatly shortened; adults of different generations may be crossed by refrigerating pupæ until needed. Possible use for breaking diapause, etc., also discussed. [P. B.]
- Bowman, James Sheppard, "Technique in radioactivating the Oriental Fruit Moth *Grapholitha molesta* (Busck)." *Ohio State Univ. Abs. Masters' Theses*, no. 77: pp. 12-13. 1956. Abstract.
- Brown, F. Martin, "Simple statistics for the taxonomist." *Lepid. News*, vol. 5: pp. 4-6, 43-45, 64-66, 112-120. 1951; 1952.
- Clarke, C. A., "Hand pairing of *Papilio machaon* in February." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 98-100, 2 figs. 1952. Technique.
- Clarke, C. A., "The successful winter breeding of *Lampides bæticus* Linn. in captivity in England." *Ent. Rec. & Journ. Var.*, vol. 65: pp. 104-105. 1953.
- Craufurd, Clifford, "Some observations on the working of a M. V. lamp." *Ent. Rec. & Journ. Var.*, vol. 67: pp. 193-194. 1953. Describes traps used. More than half of moths captured escape unless trap is taken in or covered at dawn. [P. B.]
- Cretschmar, Max, "Zur Technik des Entfettens von Schmetterlinge" [in German]. *Zeitschr. Lepid.*, vol. 1: pp. 21-22. 1950. To avoid clumping of fringes after soaking to remove oil, place insects from bath with wings on glass slides or cover slips & allow fringes to spread in solvent; then let solvent evaporate. [P. B.]

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- Cumber, R. A., "A year's operation of a modified Rothamsted light trap." *N. Z. Journ. Sci. Tech., Sect. B*, vol. 32, no. 1: pp. 1-8, 2 figs. 1950. Describes trap; records no. of Lepidoptera & no. of spp. taken each month. [P. B.]
- Davies, D. A. L., "On the preservation of insects by drying in vacuo at low temperatures." *Entomologist*, vol. 87: pp. 34-36. 1954. Method permits rapid (5 hours) drying of mounted insects without alteration of labile pigments. Soft-bodied insects (larvæ) explode with this treatment, but can be preserved by rapid freezing (very low temperatures) followed by vacuum drying. [P. B.]
- Dias, D., & G. Ranzani, "Improvements of Hagmann's method for injecting insect tracheæ." *Stain Technol.*, vol. 32: pp. 3-5, 2 figs. 1957.
- Denmark, H. A., "Ethyl acetate as a killing agent for insects." *Lepid. News*, vol. 10: pp. 150-151, 1 fig. 1957.
- Easton, N. T., "Some observations on *Pieris napi* Linn." *Ent. Rec. & Journ. Var.*, vol. 66: pp. 1-2. 1954. Reports success in rearing offspring of ♀ chilled for 2 years, in spite of abnormal first mating requiring manual separation. [P. B.]
- Ehrlich, Paul R., "The use of the Leitz 'Ultropak' microscope for studying the scales of Lepidoptera *in situ*." *Lepid. News*, vol. 10: p. 160. 1957.
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- Fischer, F., "Aus der Praxis der Schmetterlingsammler: Treibzuchten" [in German]. *Ent. Nachrichtenbl.*, Vienna, vol. 1: pp. 106-108. 1954. On rearing larvæ in winter; notes on some central European Arctiidae and Noctuidæ which are suitable. [P. B.]
- Foltin, Hans, "Wie und wo suche ich die flügellosen Weibchen der verschiedenen Geometriden-Arten" [in German]. *Ent. Nachrichtenbl. Oster. und Schweizer Ent.*, vol. 4: pp. 8-12. 1952. Notes on how to find wingless ♀♀ of 10 European Geometridæ. [P. B.]
- Gray, P. H. H., "A multiple-reflector light trap." *Lepid. News*, vol. 5: p. 72, 1 fig. 1951.
- Hayward, Kenneth J., "Paradichlorbenzene and mould." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 183-184. 1952. Thinks this insect repellent favors growth of fungi on specimens. [P. B.]
- Holloway, Paul H., "The interior treatment of cabinets." *Ent. Rec. & Journ. Var.*, vol. 65: pp. 144-145. 1953. Recommends painting with paste of zinc oxide and milk, to improve appearance. [P. B.]
- von Issendorf, J., "Operative Vernichtung von Raupenfliegen-Eiern" [in German]. *Zeitschr. Lepid.*, vol. 2: pp. 35-36. 1952. Describes method of destroying parasite eggs laid on larvæ. [P. B.]
- Jacobson, L. A., & P. E. Blakeley, "A method of rearing the Pale Western Cutworm *Agrotis orthogonia* Morr. (Lepidoptera: Phalaenidæ), in the laboratory." *Canad. Ent.*, vol. 89: pp. 87-89, 2 figs. 1957. Method of rearing larvæ in Petri dishes, on wheat seedlings. [P. B.]
- Jäckh, Eberhard. "Praktische Genitalpräparate" [in German]. *Zeitschr. Lepid.*, vol. 1: pp. 175-180, 1 fig. 1951. Describes method of mounting genitalia between coverslips, in card which is put on pin below specimen. [P. B.]
- Jakob, Otto, "Kurze Anleitung zur Schwärmerhybridenzucht" [in German]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 3: p. 75. 1949. On crossing spp. of sphingids; recommends making reciprocal crosses in adjacent cages to increase scent stimulation. [P. B.]
- Jakob, Otto, "Ueber Raupenzucht an der lebenden Pflanze" [in French]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 3: pp. 58-59. 1949. Recommends use of metal screening rather than gauze for rearing sleeves on plants. [P. B.]
- John, Hans, "Eine Methode zur Trockenpräparation von Raupen" [in German]. *Beitr. Ent.*, vol. 2: pp. 315-317. 1952. Recommends injecting larval pelts with glycerine-gelatin mixture which hardens on cooling; pigment added to mixture simulates living color of green or otherwise delicately colored spp. [P. B.]
- Kershaw, S. H., "Blocks versus boards." *Ent. Rec. & Journ. Var.*, vol. 65: p. 22, 8 figs. 1953. Describes carrying case suitable for setting blocks when in use. [P. B.]
- Kevan, D. Keith McE., "A method of mounting genitalia, etc., for incorporation into collections of pinned insects." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 195-197. 1952. Recommends Bristol board strips with punched holes at one end, make into cells by covering with small coverslips; these may be pinned below insects. [P. B.]

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- van Laer, Willy, "Zum Aufsatz von Herrn Dr. Konrad Meier, Fürth: Ueber die Zucht von *Saturnia pyri* Schiff." [in German]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 2: pp. 25-26. 1948. Recommends feeding larvæ (of Lepidoptera generally) on small branches of foodplant kept in water. [P. B.]
- Linsenmaier, Walter, "Altes und neues zur Präparation von Insekten und wom Einrichtungen der Sammlungen" [in German]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 1, no. 8: pp. 3-6; no. 9: pp. [1]-[4]; 4 figs. 1947. Describes method of mounting insects in lifelike attitudes and arranging collections to be both useful and attractive. [P. B.]
- Linsenmaier, W., "Von Sinn und vom Wert des Sammelns. Eine Entgegnung auf die Aufsätze von Herrn J. Meyer in No. 10 und von Herrn P. Bopp in No. 11 dieser Zeitschrift" [in German]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 2: pp. 1-2. 1948. Reply to criticism of previous paper; believes primary purpose of collection should be to give accurate and esthetically satisfying representation of nature. [P. B.]
- Loeb, Marcia J., & Howard A. Schneiderman, "Prolonged survival of insect tissues *in vitro*." *Ann. ent. Soc. Amer.*, vol. 49: pp. 493-494, 1 fig. 1956. Describes culture technique for tissues of *Antheraea polyphemus*; survival 6 weeks or longer. [P. B.]
- Maessen, Th., "How I kept my butterfly collection in West Africa." *Ent. Rec. & Journ. Var.*, vol. 64: pp. 118-120. 1952. Useful directions for making airtight boxes. [P. B.]
- Matsumoto, Y., "An aseptic rearing of the Oriental Fruit Moth, *Grapholitha molesta* Busck on synthetic food media." *Ber. Ohara Inst. Landwirtsch. Biol.*, vol. 10: pp. 66-71, 1 fig. 1954. Describes medium permitting partially successful rearing. [P. B.]
- Meier, Konrad, "Ueber das Einstellen des Raupenfutters in Wasser und die Aufzucht der Raupen in Gläsern etc. (Zugleich eine Erwiderung auf den diesbezüglichen Aufsatz von Herrn Dr. Willy von Laer, Burgdorf, in No. 4 des 'Entomologischen Nachrichtenblattes')." [in German]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 2: pp. 50-52, 55-58. 1948. Regards foodplant kept in water as a serious cause of larval death. Describes his method of rearing larvæ in glass containers with dry foodplant. [P. B.]
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- Miller, C. A., "A technique for estimating the fecundity of natural populations of the Spruce Budworm." *Canad. Journ. Zool.*, vol. 35: pp. 1-13, 2 figs. 1957.
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- Minnion, W. E., "Whither m.v?" *Ent. Rec. & Journ. Var.*, vol. 65: pp. 34-36. 1953. Thoughts on dangers and opportunities arising from use of mercury vapor lamps. [P. B.]
- Müller-Städler, M., "Soll man Raupenfutter einstellen oder nicht?" [in German]. *Ent. Nachrichtenbl.*, Burgdorf, vol. 2: pp. 40-41. 1948. Prefers to keep foodplant in water in rearing cage. [P. B.]
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- Parsons, R. E., "A note on breeding *Colias croceus* Fourc." *Ent. Rec. & Journ. Var.*, vol. 65: pp. 293-294. 1953. Best oviposition in bright sunlight at high temperature. Method of feeding adults described. [P. B.]
- Pitman, C. M. R., "Liberating marked butterflies." *Ent. Rec. & Journ. Var.*, vol. 65: p. 221. 1953. Recommends thinned gold lacquer for marking wings. [P. B.]
- van de Pol, P. H., "De toepassing van vanglampen. The application of light traps." [in Dutch; English summary]. *Ent. Berichten*, vol. 16: pp. 226-236, 2 figs. 1956.
- "Praktikus", "Cyankalium" [in German]. *Ent. Nachrichtenbl.*, Vienna, vol. 1: pp. 17-19. 1954. Describes preparation & use of cyanide bottles. [P. B.]
- Punt, A., "Further investigations on the respiration of insects" [in English; French summary]. *Physiol. comp. aecol.*, vol. 4: pp. 121-131, 9 figs. 1956. Describes apparatus to record continuously the O₂ uptake and CO₂ production of single insects; tested on larvæ of *Ephestia*, etc. [P. B.]
- Reid, W., "Experiments with light in Yorkshire." *Ent. Rec. & Journ. Var.*, vol. 63: pp. 108-109. 1951. Mercury vapor lamp not more successful than other light sources in single trial. [P. B.]
- Saundby, Robert, "Moth-traps and egg cartons." *Entomologist*, vol. 85: pp. 193-194. 1952. Use of cartons for settling of trapped specimens, and proper procedure in examining and releasing catch, makes possible selection of needed specimens without killing whole catch. [P. B.]
- Schadewald, Gerhard, "Köderfang 1953" [in German]. *Nachrichtenbl. Bayer. Ent.*, vol. 4: pp. 95-96. 1955. Reports good collecting by baiting during prolonged rainy spell; suggests that reason for success was absence of flowers and therefore of normal food for adults. [P. B.]
- Sevastopulo, D. G., "Foodplants of exotic Saturniidae." *Ent. Rec. & Journ. Var.*, vol. 63: p. 298. 1951. Many can be reared on *Lagerstræmia indica*, *Ricinus communis*, Mango, or Guava. [P. B.]
- Sevastopule, D. G., "Prevention of mildew." *Ent. Rec. & Journ. Var.*, vol. 64: p. 325. 1952. Recommends use of thymol. [P. B.]
- Sevastopulo, D. G., "Collecting Lepidoptera abroad." *Ent. Rec. & Journ. Var.*, vol. 65: pp. 134-135. Advice on equipment to carry into field in areas with rich fauna. [P. B.]
- Sevastopulo, D. G., "The handling of 'papered' insects." *Ent. Rec. & Journ. Var.*, vol. 65: pp. 197-199, 1 fig. 1953. Describes preparation and use of paper triangles and a type of cardboard container useful for storage and shipping; recommends relaxing by pouring methyl alcohol over specimens and sealing for two days. [P. B.]
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N O T I C E S

Lepidopterists' Society members may use this page free of charge to advertise their offerings and needs in Lepidoptera. The Editors reserve the right to rewrite notices for clarity or to reject unsuitable notices. We cannot guarantee any notices but expect all to be *bona fide*.

BUTTERFLIES AND MOTHS OF JAPAN and adjacent areas for sale and exchange. Also seasonal living materials of various Japanese butterflies and moths can be supplied. All correspondence welcomed. J. Okura, 1566 2-chome, Shimoshakujii, Nerimaku, Tokyo, JAPAN.

Wanted: Rhopalocera and Macroheterocera of U. S. A. Purchase and exchange. Paul B. Salzman, 79 Second St., Carrollton, Ohio, U. S. A.

Wanted: Will purchase living cocoons of *Cecropia* and *Polyphemus* at \$15.00 per hundred, plus postage. Also require living cocoons of *Cynthia* and other native and foreign Saturniids. Prof. C. M. Williams, Harvard Biological Labs., Cambridge 38, Mass., U. S. A.

Wanted: specimens of the genus *Aeneis*. Will exchange California Rhopalocera or purchase. Please send list of species and quantity available. Noel La Due, 5224 15th Ave., Sacramento, Calif., U. S. A.

For exchange: moths and butterflies from Europe, especially Saturniidae and Sphingidae (papered or pinned). Desired: American and exotic Saturniidae (papered or living stages). Will buy; if interested, please send offer lists. Claude Lemaire, 1 rue Le Goff, Paris V, FRANCE.

I am ready to supply or help you to find any European Rhopalocera. Exchange only (for other exotic Phop.). D. Cozac, 19 ave. du Derby, Bruxelles 5, BELGIUM.

For sale in large quantity: Formosan dried butterflies with paper body, spread wings for art work; Formosan dried butterflies with natural body, either in extended wings or in folded wings for research and collections. Also Formosan dried beetles, dragonflies, and other insects for art or research. Mrs. Chang Pi-tzu, P. O. Box 860, Taipei, FORMOSA (TAIWAN), FREE CHINA.

Wanted: papered Rhopalocera, *Catocalinae* and *Plusiinae*, and *Lithocolletis*. Material from foreign countries also desired. Giuseppe Parodi, via Sebenico 13, Milano, ITALY.

For sale, during season: ova from *Telea polyphemus*, *Platysamia cecropia*, *Antheraea mylitta*. Also papered Lepidoptera. Mrs. Edith L. Ragsdale, 429 N. Marion St., Centralia, Ill., U. S. A.

Wanted: NEOTROPICAL RHOPALOCERA in A-1 condition for photography. Will exchange good condition U. S. Lepidoptera 2 for 1. Long term exchanges preferable. R. J. Machwart, 28517 Marshall St., Southfield Twp., Royal Oak, Michigan, U. S. A.

Perfect specimens of *Papilio brevicauda* (Nfld. and N.B.) offered in exchange for desirable U. S. and Canadian Rhopalocera needed in our collection. D. C. Ferguson, Nova Scotia Museum of Science, Halifax, N. S., CANADA.

1958 ANNUAL MEETING TO BE AT LAWRENCE, KANSAS

This year's meeting will be held at the Department of Entomology, University of Kansas, Lawrence, Kansas, on Monday and Tuesday, 29 and 30 December. Plans are being made for a symposium, round table discussions, and one or two open paper sessions. The Department is one of the centers of training in systematic entomology in the United States, and the Snow Entomological Museum houses one of the finest insect collections in the country. No previous meeting of the Society has been held in this part of the country, and it is hoped that many members who have never been to an annual meeting will be able to attend. Chairman of the Local Arrangements Committee is KENT H. WILSON of the Dept. of Entomology. The Program Chairman is PAUL R. EHRLICH. Submitted papers should be sent to the Program Chairman at the Department of Entomology, University of Kansas, *after August 15th*. Papers should be submitted before November 1st. A circular concerning reservations etc. will be sent out sometime in the fall.

P. R. EHRLICH

 ADDITIONS TO THE LIST OF MEMBERS

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Dr. FLOYD W. PRESTON, of the University of Kansas, has accepted appointment as Assistant Secretary of the Society.

The Annual List of Members is again being issued in mimeographed form and will be mailed with an early issue of the *News*.

Until May, 1959, all manuscripts submitted for publication in the *News* must be addressed as follows: Dr. C. L. Remington, Editor, Genetical Lab., Dept. of Zoology, University Museum, Oxford, England. Please do not send any Society correspondence or other material to Yale University during this period.