

RECENT LITERATURE ON LEPIDOPTERA

Under this heading are listed publications on Lepidoptera from all scientific periodicals available to our cooperating abstractors. It is intended that every paper and book related to Lepidoptera and published in any part of the world after 1946 will be included. *Abstracts give all new species, subspecies, genera, and higher categories, with type localities and generotypes, but varieties, aberrations, etc. are omitted.* Papers from *The Lepidopterists' News* are listed but not abstracted. Initials of cooperating abstractors are as follows: [P.B.] — P. F. BELLINGER; [A.D.] — A. DIAKONOFF; [W.H.] — WALTER HACKMAN; [N.O.] — NICHOLAS OBRAZTSOV; [J.T.] — J. W. TILDEN; [P.V.] — PIERRE E. L. VIETTE.

A. GENERAL WORKS

- Carpenter, F. M., "The geological history and evolution of insects." *Amer. Sci.*, vol. 41: pp. 256-270, 7 figs. April 1953. General account, based on the fossil record. [P.B.]
- Perkins, Lilly, "Butterflies and moths." In Natural History Society of Jamaica *Glimpses of Jamaican Natural History*, vol. 1, 2nd ed.: pp. 36-39. 1949. General remarks on Lepidoptera, referring to several local species. [P.B.]
- Various authors, "Insects." *U. S. Dept. Agric. Yearbook 1952*: 780 pp., 72 pls., figs. A collection of short articles by specialists on various aspects of general and economic entomology; color plates show life history of economically important species. [P.B.]

B. SYSTEMATICS AND NOMENCLATURE

- d'Almeida, R. Ferreira, "Duas novas subespecies de Rhopalocera de America (Lep. Satyridæ e Nymphalidæ)" [in Portuguese]. *Bol. Mus. Nac. Rio de Janeiro, Zool.*, no. 114: 3 pp., 2 figs. 15 Sept. 1952. Describes as new *Dynamine mylitta mexicana* (Presidio, Mexico); *Euptychia acirrhoë interjecta* (Três Rios, Jacarépaguá, Rio, D. F., Brazil). Figures adults. [P.B.]
- d'Almeida, R. Ferreira, "Novas especies sul-americanas da familia Ithomiidæ (Lep. Rhopalocera)" [in Portuguese]. *Bol. Mus. Nac. Rio de Janeiro, Zool.*, no. 115: 4 pp., 2 pls. 15 Sept. 1952. Describes as new *Hypothyris violantilla* (Salôbra, S. Mato Grosso); *Ithomia arduinna* (Chapare, Bolivia); *Hyposcada olerioides* (Yungas de Palmar, Bolivia). Figures adults of last two, and ♂ genitalia of *Hypothyris colophonina* and *H. ninyas*, described previously. *Sais rosalia badia* Haensch a good subspecies. P.B.
- Altena, C. O. van Regteren, "A revision of the genus *Nyctalemon* Dalman (Lepidoptera, Uraniidæ) with notes on the biology, distribution, and evolution of its species." *Zool. Verb. Mus. Leiden*, no. 19: 57 pp., 4 pls., 7 figs. 28 May 1953. There are two species groups. The *patroclus*-group occurring from the Moluccas to the New Hebrides contains five species, of which at least one is polytypic. Describes as new: *N. toxopeusi* (Moluccas to Bismarck Archipelago), and *N. mutatus* var. "fletcheri" (Solomon Is.). The *menetius*-group occurring from India to Celebes contains two polytypic species. Describes as new: *N. menetius celebensis* (Celebes), and *N. m. adpersus* (E. Borneo). Suggests placing on the Official List of Generic Names in Zoology the well known name *Nyctalemon*, although preoccupied by *Lyssa* Hübner. [A.D.]
- Amsel, H. G., "Neue Kleinschmetterlinge aus Nordwest-Afrika" [in German]. *Bull. Inst. Franç. Afr. Noire*, vol. 15: pp. 1441-1460, 19 figs., 8 phot. 1953. Describes as new: *THYRIDOPSIS monotona* (Schenobiinæ); *MEGALOPHYCITA albicostella*, *BRACHIOLODES ziczac* (Phycitinæ); *MACROPYRALIS gigantalis* (Pyralidinae); *Macalla mauritanica* (Epipaschiinae); *Cataonia mauritanica* (Pyraustinae); *Symmoca solnella* (Gelechiidæ); *Coleophora saccharella*, *C. pisella* (Coleophoridae); *Blastobasis cineracella* (Blastobasidæ); *PECTITINEA albonigrella*, *RUNGSIODES stenopterella* (Tineidæ). The new spp. are from Mauritania and Morocco. Location of types not given. [P.V.]
- Anonymous, "À propos de *Hyponomeuta* (Microlépidoptères Hyponomeutidæ)" [in French]. *Rev. Franç. Lépid.*, vol. 13: p. 166. "Jan/Feb." [31 May] 1952. Evidence for specific distinctness of *H. padellus* and *H. malinellus*. [P.B.]

- Berger, L. A., "Les *Earias* Hb. du Congo belge (Lepidoptera - Phalaenidae (Noctuidae auct.))" [in French]. *Rev. Zool. Bot. Afric.*, vol. 48: pp. 204-208. 1953. Describes as new *E. becqueti* (Urundi). Lists *E. biplaga*, *E. cupreoviridis*, *E. ansorgei*, *E. insulana* from Belgian Congo; key to species. [P.V.]
- Berger, L. A., "Pieridae nouveaux du Musée Royal du Congo Belge" [in French]. *Rev. Zool. Bot. Afric.*, vol. 48: pp. 209-210. 1953. Describes as new two ssp. from Belgian Congo: *Belenois victoria becqi* (Kibali-Ituri) and *B. v. schoutedeni* (Kivu). [P.V.]
- Bernardi, G., & H. de Lesse, "La variabilité géographique de *Lycæna belle* Denis et Schiff. (Lep. Lycænidae)" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 203-213, 1 pl. "March/April" [25 July] 1952. Describes as new *L. b. arvernica* (Vallée du Chaudefour, France). Tabulates distribution of size and of pattern and color characters among 8 races and describes the latter (including two unnamed subspecies). [P.B.]
- Bernardi, G., H. de Lesse, & J. Picard, "Liste des Grypocères et Rhopalocères de la faune française conforme aux Règles Internationales de la Nomenclature" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 241-246. "May/June/Sept." [15 Nov.] 1952. Completes the revised catalogue of French butterflies, with the Satyridae and Libytheidae. Lists genera, subgenera, species, generotypes, and important synonyms; notes on some doubtful systematic points. [P.B.]
- Bourgogne, J., "Un *Oreopsyche* nouveau de la Péninsule Ibérique (Lep. Psychidae)" [in French]. *Bull. Soc. Ent. France*, vol. 58: pp. 89-95, 6 figs. 1953. Description of a new species, *O. montei* from Portugal (holotype) and Spain, and comparison with *O. moncaunella*. [P.V.]
- Boursin, Ch., "Berichtigungen zum Aufsatz Boursin: 'Neue paläarktische *Agrotis*-Arten usw.'" [in German]. *Zeits. Wiener Ent. Ges.*, vol. 34: pp. 112-113. 15 July 1949. Corrections to paper in vol. 33, pp. 97-136, including list of 11 n. spp. (mostly *Diarsia*) not mentioned in the text whose genitalia were figured. [P.B.]
- Box, Harold E., "New crambine genera allied to *Diatraea* Guilding (Lepidoptera: Pyralidae). - I." *Proc. Roy. Ent. Soc. London B*, vol. 22: pp. 178-180. 15 Oct. 1953. Describes as new *EODIATRÆA* (type *Chilo centrellus* Möschler), including also *E. amnemonella*, *E. amazonica*, and *E. rufescens*, all transferred from *Diatraea*. *D. canella* a synonym of *E. centrella*. [P.B.]
- Bradley, J. D., "Some important species of the genus *Cryptophlebia* Walsingham, 1899, with descriptions of three new species (Lepidoptera: Olethreutidae)." *Bull. Ent. Res.*, vol. 43: pp. 679-689, 2 pls., 8 figs. Jan. 1953. Describes as new *C. vitiensis* (Vunidawa, Fiji); *C. williamsi* (Réduit, Mauritius); *C. pallifimbriana* (Natoon, Fiji). Transfers 10 spp. from *Argyroproce*, 1 from *Pogonozada*, 1 from *Platybeplus* to *Cryptophlebia*. Synonymizes *A. xylodelta* under *C. præsiliens*. Lists the 18 known spp., with taxonomic notes, distribution, and host plants; figures adults and genitalia of n. spp. and some others. [P.B.]
- Brown, F. Martin, & William P. Comstock, "Some biometrics of *Heliconius charitonius* (Linnæus) (Lepidoptera, Nymphalidae)." *Amer. Mus. Novit.*, no. 1574: 53 pp., 8 figs. 28 July 1952. Statistical study of populations, based on wing length, band width, frequency of occurrence of secondary pattern elements (spots), and color variation. This study, carried out by Brown from data supplied by Comstock and without reference to the actual specimens, supports Comstock's earlier division of the species into races by standard taxonomic procedure. [P.B.]
- Caruel, M., "Les nouvelles règles de la nomenclature. Application au cas de *Maculinea arion* L. aberr. *obscura* Christ., et race *obscura* X." [in French]. *Lambillionea*, vol. 50: pp. 84-87. 25 Oct. 1950. Discusses ruling separating specific and infrasubspecific nomenclature, and its consequences; points out that *obscura* was originally applied to an aberration and that the authority for the subspecific name *M. a. obscura* is the author, not yet determined, who first applied this name to the dark mountain race. [P.B.]
- Cary, Margaret M., "*Phlegethontius caribbeus*, a new sphynx moth from Haiti, West Indies." *Ent. News*, vol. 63: pp. 197-199. 1952. Described from a single female; type figured. [J.T.]
- Chiarelli de Gahan, Angelina, "*Proxenus rionegrensis*, nuevo Lepidoptera de la Argentina (Lep. Noct. Acronyctinae)" [in Spanish]. *Rev. Invest. Agric.*, vol. 3: pp. 397-402, 2 figs. "1949" [Aug. 1950]. Resdescribes genus and describes n. sp. (Rio Negro, Argentina). [P.B.]

- Couchman, L. E., "Notes on some species of *Oreixenica* Waterhouse and Lyell (Lepidoptera, Satyridæ), with descriptions of new forms." *Proc. Roy. Ent. Soc. London B.*, vol. 22: pp. 73-84, 3 figs. 17 June 1953. Describes as new *O. paludosa nama* (Nimmitabel, S. E. Australia); *O. p. theodora* (Mt. Buffalo, S. E. Australia); *O. ptunarra* (Miena, Tasmania); *O. p. roonina* (Mike Howes Marsh, Tasmania); *O. p. angeli* (L. Leake, Tasmania); also names a new "form". Describes early stages of *O. p. angeli*; foodplant grass. Key to Tasmanian races of *Oreixenica*. [P.B.]
- Daniel, Franz, "Beiträge zur Kenntnis der Arctiidae Ostasiens unter besonderer Berücksichtigung der Ausbeuten von Dr. h. c. H. Höne aus diesem Gebiet (Lep.-Het.). III. Teil: Lithosiinae" [in German]. *Bonn. Zool. Beitr.*, vol. 2: pp. 291-327, 1 pl. 24 figs. 1951. Gives an annotated list of 53 spp., chiefly from China. Describes as new *PAREUGOA* (type *P. grisescens* nov.), *AZURIDOIDES* (type *A. atuntseica* nov.) and further species and subspecies: *Stigmatophora likiangensis* (Likiang, Yunnan); *S. confusa* (Likiang, Yunnan); *S. obratzovi* (mountains south of Wenchow, Chekiang); *S. chekiangensis* (West Tien-mu-shan, Chekiang); *Pareugoa grisescens* (Hang-Chow, Chekiang; ♀ allotype from Ling-ping, Kwang-tung); *Schistophleps lofaushanensis* (Lofau-shan, S. China); *Siccia kuangtungensis* (Ling-ping, Kwang-tung); *Parasiccia chinensis* (West Tien-mu-shan, Chekiang); *Asuridia yuenanica* (Likiang, Yunnan); *Asuridoides atuntseica* (A-tun-tse, Yunnan); *A. osthelderi* ("W. China"); *Mitochrista tibeta* (Batang, Tibet); *M. tsinglingensis* (Tapai-shan, S. Shen-si); *M. kuatunensis* (Kuatun, Fu-kien); *M. gilva* (Batang, Tibet); *M. longaria* (Wenchow, Chekiang); *M. variata* (type not fixed; the moths studied originated from Kwanh-sien, Szechuen, and Likiang, Yunnan); *M. atuntseensis* (A-tun-tse, Yunnan); *M. orientalis* (Kuatun, Fukien); *Hypeugoa flavogrisea orientalis* (West Tien-mu-shan, Chekiang); *Siccia taprobanis likiangensis* (Likiang, Yunnan); *Mitochrista tibeta clara* (Likiang, Yunnan); *M. pallida tapaisbanica* (Tapai-shan, S. Shensi); *M. pallida formosana* (Formosa; type not fixed); *Mitochrista rosacea* mod. *flava* (Mien-shan, Shansi). Raises *Parasiccia maculifascia mokanshensis* Reich to full specific rank. Redescribes and discusses some known spp. Figures genitalia of 17 new spp., 2 new ssp., and 8 known spp.; 32 photographs of 17 new spp., 2 new ssp., and of 8 known spp. To be continued. [N.O.]
- Daniel, Franz, "Freilandbeobachtungen an *Philea* Z.-und *Endrosa* Hbn.-Formen" [in German]. *Nachrb. Bayer. Ent.*, vol. 1: pp. 27-29. 15 April 1952. Discusses taxonomy of some spp. on basis of habits. [N.O.]
- Dasse, G., "Contribution à l'étude de trois espèces belges du genre *Cucullia* Schrank" [in French]. *Lambillionea*, vol. 50: pp. 81-84. 25 Oct. 1950. Distinction, in larval and adult stages, between *C. verbasci*, *C. scrofulariae*, & *C. lychnitis*; foodplant preferences noted. [P.B.]
- Dufrane, A., "Saturniidae d'Afrique" [in French]. *Bull. Mens. Soc. Linn. Lyon*, vol. 22: pp. 247-252. 1953. Describes from Belgian Congo as new *Bunaea alberici*, *B. alcinoë katangensis*, *Imbrasia paradoxa*. No figures. [P.V.]
- Ehrlich, Paul R., "A new subspecies of *Erebia epipsodea* Butler (Lepidoptera: Satyridæ)." *Ent. News*, vol. 63: pp. 225-231. 1952. Describes as new *E. e. remingtoni* (Yukon Territory). [J.T.]
- Elferich, N. W., *Pontia daplidice* L." [in Dutch]. *Ent. Berichten*, vol. 15: pp. 1-3. 1 fig. 1 Jan. 1954.
- Fender, Kenneth M., & Stanley G. Jewett, Jr., "Two new races of *Euphydryas anicia* Doubleday & Hewitson (Lepidoptera: Nymphalidae)." *Wasmann Journ. Biol.*, vol. 11: pp. 115-120. 1953. Describes the subspecies *E. a. macyi* (Wildhorse Creek, Alvord Basin, Harney Co., Ore.) and *E. a. veaziae* (Jackass Mts., Harney Co., Ore.). [J.T.]
- Field, William D., "Moths of the genus *EPEIROMULONA*, a new genus of Lepidoptera." *Proc. U. S. Nat. Mus.*, vol. 102: pp. 455-469, 4 pls. 1952. Describes as new *EPEIROMULONA*, and type species *E. lephina* (Porto Bello, Colon Prov., Panama); also *E. biloba* (Rio Trinidad, Colón Prov., Panama), *E. b. hamata* (Cayenne, Fr. Guiana), *E. b. venezuelensis* (Las Quguas, Esteban Valley, Venezuela), *E. b. colombiensis* (upper Rio Negro, Colombia), *E. b. brasiliensis* (Melguina, 10 mi. S. of Diamantino, Mato Grosso), *E. roseata* (between La Gloria and Cardel, Vera Cruz, Mexico), *E. thysanaba* (Cayenne, Fr. Guiana), *E. icterinus* (Cayuga, Guatemala); includes *Autoceras* (?) *phelina* Druce. Figures adults and genitalia. Key to spp. [P.B.]

- Fleming, Henry, "The Saturnioidea (moths) of Rancho Grande, northcentral Venezuela." *Zoologica, N. Y.*, vol. 37: pp. 203-207. 31 Dec. 1952. Records 35 spp. (including 1 cercophanid, 3 oxytenids). Considers *Automeris metzli* a good species and distinguishes it from *A. janus*. [P.B.]
- Foltin, Hans, "*Biston* (*Pœciloipsis*) *isabellæ* Harr." [in German]. *Zeitschr. Wiener Ent. Ges.*, vol. 34: pp. 39-42. 15 March 1949. Distinction from *B. lapponaria*; distribution in Austria. [P.B.]
- Forbes, Wm. T. M., "Comments on Dr. Paclt's views." *Ent. News*, vol. 62: p. 307. 1951. Agrees with Dr. Paclt as to the gender of *Colias*; disagrees on *Ochlodes*. [J.T.]
- Fox, Richard M., "The taxonomic value of male genitalia in the Ithomiidae (Lepidoptera)." *Ent. News*, vol. 64: pp. 141-143. 1953. States that in general genitalia are of great value in the family, though not always for species identification. Gives comparative figures and percentages. A valuable study. [P.B.]
- Freeman, H. A., "Two new species of *Megathymus* from Texas and Mexico (Lepidoptera, Rhopalocera, Megathymidae)." *Amer. Mus. Novit.*, no. 1593: 9 pp., 13 figs. 29 Oct. 1952. Describes as new *M. chisosensis* (Chisos Basin, Chisos Mts., Texas; in *Agave chisosensis*); *M. boffmanni* (Valle de Mexico). Figures adults and genitalia. [P.B.]
- Gaj, Andrew J., "*EUHYPONOMEUTOIDES albithoracellus* gen. nov., spec. nov. (Lepidoptera, Hyponomeutidae)." *Ent. Berichten*, vol. 15: pp. 11-12, 5 figs. 1 Jan. 1954. Describes *E. albithoracellus* (type of n. genus) from 1 ♂ (Krynica, southern Poland); figures shape of wing, genitalia, adult. [A.D.]
- Gray, P. H. H., "Aids to distinguish between females of the 'Winter-moths', *Alsophila pometaria* and *Operophtera bruceata* (Geometridae)." *Lepid. News*, vol. 7: pp. 127-128. 5 Nov. 1953.
- Hackman, Walter, "*Clepsis nybomi* nom. nov. für *Tortrix fuliginosana* Hackm." [in German]. *Notul. ent.*, vol. 30: p. 128. Dec. 1950. A new name because of preoccupation (*Clepsis costant* f. *fuliginosana* Schille 1917). [W.H.]
- Hartig, Fred, "*Stigmella babylonica* n. sp. von *Salix babylonica* L." [in German]. *Zeits. Wiener Ent. Ges.*, vol. 34: pp. 94-96, 1 pl. 15 July 1949. New sp. from Klobenstein am Ritten, Bozen; describes all stages, figures ♂ genitalia and leaf-mine. [P.B.]
- Hemming, Francis, "Zoological nomenclature." *Science*, vol. 115: p. 684. 20 June 1952. Notice of forthcoming action of Internal Commission on certain works of Cramer, Schiffermüller, and Fabricius, relative to priority of names proposed in them. [P.B.]
- Herbulot, C., "Description de quatre Larentiinae nouveaux du Kenya (Lep. Geometridae)" [in French]. *Bull. Soc. Ent. France*, vol. 58: pp. 9-12. 1953. Description of four new species of Geometridae from Kenya collected during the Omo mission: *Eupithecia jeanneli*, *Eulype relicta*, *Lobidiopteryx elgonica*, *Asthenitricha strangulata*. [P.V.]
- Herbulot, C., "Note synonymique" [in French]. *Bull. Soc. Ent. France*, vol. 58: p. 48. 1953. Synonymy of two names of Geometridae. *Acidalia couloniata* is a synonym of *Stierha lœvigata*. Lectotype of *A. couloniata* designated [P.V.]
- Hoffmann, Emil, "*Parnassius styriacus* Fruhst., eine eigene Art" [in German]. *Zeits. Wiener Ent. Ges.*, vol. 37: pp. 138-148. 15 Dec. 1952. Evidence that *P. styriacus* is a good species rather than a race or form of *P. phœbus*. [P.B.]
- Hesselbarth, G., "Bemerkungen zu Pieridenzuchtungen 1950-1951" [in German]. *Trans. 9th Int. Congr. Ent.*, vol. 1: pp. 172-176, 1 fig. March 1953. Breeding and crossing experiments show that *P. napi* and *P. bryoniae* are distinct species; *P. napi bibernica* is closer to *P. bryoniae* than to *P. napi*; disposition to producing one or more generations a year is genetically fixed but is easily changed by environmental conditions. [A.D.]
- Holik, O., "Ueber die Gattung *Satyrus* L." [in German]. *Zeits. Wiener Ent. Ges.*, vol. 34: pp. 98-105. 15 July 1949. Describes as new *S. sibyllina pygmaea* (Kansu, Peilingshan, Taiping R.); *S. semele cypriensis* (Cyprus); *S. mnisechii baltistana* (Skardo, Baltistan); also several "varieties" of these and other species of *Satyrus*. Comments on the previously described *S. geyeri occidentalis* [P.B.]
- Holik, O., "*Zyg. goberti* Le Charles und *Zyg. anthyllidis* Bsd." [in German]. *Nachrbll. Bayer. Ent.*, vol. 2: p. 47. 15 June 1953. Abstract.
- Hovanitz, William, "Natural hybridization in Eurasiatic *Colias hyale* and *Colias croceus*." *Anat. Rec.*, vol. 117: p. 647. Nov. 1953. Abstract only.

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- Janmoulle, E., "Remarques sur la faune belge" [in French]. *Lambillionea*, vol. 52: p. 48. 25 Aug. 1952. *Elachista festucicolella*, new to Belgium; previous record a misidentification of *E. nitidulella*. Distinguishes between these two spp. [P.B.]
- Jarvis, F. V. L., "The relationship of *Colias croceus* (Fourcroy) and *Colias electo* (Linn.)" *Trans. Roy. Ent. Soc. Lond.*, vol. 104: pp. 521-542, 1 pl., 7 figs. 15 Dec. 1953. Concludes on basis of comparison of structure and behavior that the species are distinct. Figures all stages (in color), genitalia, and androconia of both. [P.B.]
- Kaisila, Jouko, "Über die vermuteten Bastarden zwischen *Colias becla sulitelma* Aur. und *C. nastes werdandi* Zett. (Lep., Pieridæ)" [in German]. *Ann. Ent. Fennici*, vol. 16: pp. 112-121, 2 figs. Nov. 1950. Gives facts in favour of the assumption that some *Colias* forms from northern Lapland are to be considered as hybrids between *Colias becla* and *nastes*. [W.H.]
- Kauffmann, Guido, "Considérations au sujet de *Pyrgus reverdini* Oberthür" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 284-286. "Oct./Nov./Dec. 1952" [25 March 1953]. Concludes that *B. reverdini* is a variant or, at most, a subspecies of *P. alveus*. [P.B.]
- Kiriakoff, S. G., "Recherches sur les organes tympaniques des Lépidoptères en rapport avec la classification. V. Position systématique de quelques genres des Arctiidae" [in French]. *Lambillionea*, vol. 50: pp. 62073, 4 figs. 25 Oct. 1950. Proposes RHODOGASTRINÆ n. subfam., for *Rhodogastria*, *Pelochyta*, and perhaps other genera. Transfers *Belemnina* from Phegopterinae to Ctenuchinae. [P.B.]
- Kiriakoff, S. G., "À propos de l'article de M. Caruel 'Les nouvelles règles de la nomenclature'" [in French]. *Lambillionea*, vol. 51: pp. 61-62. 25 Oct. 1951. Comments on decision separating specific and infrasubspecific nomenclature; author objects to latter term except as applied to local populations. [P.B.]
- Kiriakoff, S. G., "Les organes tympaniques des Lépidoptères et utilisation en systematique" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 173-178, 2 figs. "Jan./Feb." [31 May] 1952. General discussion of structure of tympanic organs and their bearing on the classification of Phalaenoidea and Notodontoidea. [P.B.]
- Kiriakoff, S. G., "Thyretidae nouveaux du Congo Belge (Lepidoptera Notodontoidea)" [in French]. *Rev. Zool. Bot. Afric.*, vol. 46: pp. 396-406, 10 figs. 1952. Describes as new, from the Belgian Congo, genus *BERGERIA* (type *B. haematochrysis* nov.), *B. tamsi*, *B. schontedeni*, *B. bourgognei*, *Apisa dufranei*, and *A. vanoyei*. This material belongs to the "Syntomidae" auctt. [P.V.]
- Kiriakoff, S. G., "Arctiidae nouveaux du Musée Royal du Congo Belge" [in French]. *Lambillionea*, vol. 53: pp. 50-54. 1953. The material described in this paper belongs to the Syntomidae (family not accepted by the author). Describes as new *Anayisa bistriatica* (Angola) and genus *LEPTOCERYX* [type *L. pusilla* (Belgian Congo, Tshuapa, Eala)]. [P.V.]
- Kiriakoff, S. G., "Recherches sur les organes tympaniques des Lépidoptères en rapport avec la classification. X. Hyblæidae" [in French]. *Bull. Ann. Soc. Ent. Belgique*, vol. 89: pp. 258-263, 1 fig. 1953. The author shows, by the study of the metathorax and the first abdominal segment, that the Hyblæidae are not a subfamily of the Phalaenidae (=Noctuidæ) or a family of the Pyraloidea, but a good family belonging to a new superfamily HYBLÆOIDEA and near the Phalaenoidea (=Noctuoidea). [P.V.]
- Klimesch, Josef, "Neue *Stigmella*-Arten (Lep., Stigmellidae)" [in German]. *Zeitschr. Wiener Ent. Ges.*, vol. 31: pp. 160-172, 1 pl., 11 figs. 15 Mar. 1948. Describes as new: *S. cerricolella* (Ferrania, Italy; on *Quercus cerris*); *S. caulescentella* (Trient, Italy, on *Potentilla caulescens*); *S. pallidiciliella* (Trient, on *Salix purpurea*); *S. phyllotomella* (Ferrania, on *Quercus cerris*); *S. gilvipenella* (Ferrania, on *Quercus cerris*); *S. liguricella* (Bordighera, Italy, on *Cistus albidus*). Figures ♂ genitalia, mines, and some adults. [P.B.]
- Klimesch, Josef, "*Acampsia scotosiella* Hackman = *A. (Xystophora) latipenella* Rbl. (Lep., Gelechiidae)" [in German]. *Zeitschr. Wiener Ent. Ges.*, vol. 33: pp. 23-24, 1 fig. 1 Oct. 1948. Synonymy based on ♂ genitalia. [P.B.]
- Klimesch, J., "*Phthorimæa (Lita) saginella* Z. (=coussonella Chrét.) (Lep. Gelechiidae)" [in German]. *Ent. Nachrbl.*, vol. 3: pp. 191-192, 1 pl. Dec. 1951. New synonymy. Describes and figures genitalia, adult, and gall. Foodplant *Silene bayekiana*. [P.B.]
- Koch, Manfred, "Ein neuer Weg der Farbbezeichnung in naturwissenschaftlichen Beschreibungen" [in German]. *Zeitschr. Wiener Ent. Ges.*, vol. 31: pp. 183-187. 15 Mar. 1948. Recommends use of a standard color table in preparing descriptions. [P.B.]

- Kurentsov, A. I., "*EOLIMENTIS* (gen. nov.) *eximia* (Molt.) Kurenz. (Nymphalidæ, Lepidoptera) in the fauna of Ussuri territory" [in Russian]. *Bull. Moskov. Obschch. Isp. Prir. Ord. Biol.* (n. s.), vol. 55: pp. 37-45. 1950. [Not seen].
- Langston, Robert L., & Owen J. Smith, "Notes on the zygænid genus *Harrisina* Packard, with special reference to *Harrisina metallica* Stretch." *Ent. News*, vol. 64: pp. 253-255. 1953. Rearings indicate that *H. metallica* is a genetic variant of *H. brillians*. The authors suggest that the variations in *H. brillians* may very well cover the characters used to separate most of the south-western species. [J.T.]
- de Lattin, Gustaf, "Neue Acronicten II" [in German]. *Zeits. Wiener Ent. Ges.*, vol. 34: pp. 105-112, 3 figs. 15 July 1949. Describes as new *Dipththera fulvicollis* (Sutschanski-Rudnik, Ussuri); genus *CRANIONYCTA* (type *C. oda* n. sp.-Sutschanski-Rudnik); also 2 "forms" in *Acronicta*. Figures ♂ genitalia of n. spp. and of *D. alpium murrhina*. [P.B.]
- Le Charles, L., "Une zygène nouvelle pour la faune française" [in French]. *Rev. Franç. Lépid.*, vol. 13: p. 219. "March/April" [25 July] 1952. Preliminary description of *Z. goberti* n. sp. (no locality given). Foodplant *Peucedanum cervaria*. [P.B.]
- l.c./ Le Marchand, S., "Le genre *Gelechia* (Gelechiidæ) doit être divisé" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 185-190, 6 figs. "Jan./Feb." [31 May] 1952. Discusses Busck's subdivisions of *Gelechia* and their bearing on the European species; figures ♂ genitalia of some species of *Gelechia* and related genera. [P.B.]
- Le Marchand, S., "Tineina - les Elachistidæ" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 167-171. "Jan./Feb." [31 May] 1952. Redescribes and discusses family and genera occurring in France, and gives a key to latter. [P.B.]
- Le Marchand, S., "Un peu de grammaire entomologique et . . . étymologique" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 247-248. "May/June/Sept." [15 Nov.] 1952. Points out that species names formed from foodplant name plus genitive ending *-foliæ* are incorrect, *folium* being neuter. The practice should be discarded in future naming. [P.B.]
- de Lesse, H., "Note sur le genre *Kanetisa* (Satyridæ)" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 257-259, 1 pl., 4 figs. "May/June/Sept." [15 Nov.] 1952. Describes and figures close similarity of ♂ genitalia in *K. digna* and *K. sthenos*, which are very distinct in pattern; figures adults of these and of *Satyrus parthenica*, which closely resembles *K. digna*. [P.B.]
- de Lesse, H., "Révision des *Neobipparchia* d'Afrique du Nord (Lep. Satyridæ)" [in French]. *Bull. Soc. Sci. Nat. Maroc*, vol. 32: pp. 91-105, 16 figs. "1952" [1953]. Revision of the two species of *Neobipparchia* in North Africa, *N. statilinus* and *N. hansii*, with study of every subspecies, ♂ genitalia, and androconial scales. [P.B.]
- McDunnough, James H., "Species of *Euxoa* of eastern North America, with particular reference to genitalic characters (Lepidoptera, Phalaenidæ)." *Bull. Amer. Mus. Nat. Hist.*, vol. 95: pp. 355-408, 11 figs. 20 Dec. 1950. Describes as new *E. servita novangliæ* (Franconia, N. H.). Redescribes all eastern races, with figures of genitalia of both sexes. Discusses structural details and their taxonomic value. Gives a key to spp. based on ♀ genitalia. [P.B.]
- McDunnough, James H., "On the identity of two eastern North American *Hydriomena* species (Lepidoptera, Geometridæ)." *Amer. Mus. Novit.*, no. 1535: 13 pp., 5 figs. 8 Nov. 1951. The true *H. frigidata* is a rare northern species (Nova Scotia) closely allied to *H. divisaria*; the species commonly called *H. frigidata* should be known as *H. manitoba*. Removes *H. transfigurata* from the synonymy of *H. pluviana*. Figures adults and genitalia of these spp. [P.B.]
- McDunnough, James H., "On the identity of *Euxoa punctigera* Walker (Lepidoptera, Phalaenidæ)." *Amer. Mus. Novit.*, no. 1550: 6 pp., 1 fig. 8 Apr. 1952. Describes and figures genitalia of both sexes. Confirms synonymy of *E. pastoralis*, and considers *E. atrofusca* as synonym or doubtful race; *E. exculta* is a distinct species. [P.B.]
- McDunnough, James H., "New species and subspecies in the genus *Hydriomena*, with notes (Lepidoptera, Geometridæ)." *Amer. Mus. Novit.*, no. 1592: 17 pp., 24 figs. 29 Oct. 1952. Describes as new *H. sperryi* (Miami, Ariz.); *H. septemberata* (Julian, San Diego Co., Ariz.); *H. perfracta centralis* (Tesuque, N. Mex.); *H. p. monoensis* (Rock Creek, Mono Co., Calif.); *H. expurgata franclemonti* (Deer Park, Placer Co., Calif.); *H. mississippiensis* (Agric. & Mech. College, Miss.); *H. edenata indistincta* (upper Santa Ana R., San Bernardino Co., Calif.). Figures adults and

- genitalia. Places *H. marmorata* as subspecies of *H. perfracta*. Discusses identity of *H. bistriolata* and related species. [P.B.]
- Mazokhin-Porzhnyakov, G. A., "A new race of *Satyrus semele* L. (Lepidoptera) from the land along the lower Volga" [in Russian]. *Zool. Zhurn.*, vol. 31: pp. 288-291. 1952. [Not seen.]
- Marion, H., "Ebauche d'une classification nouvelle des Pyraustidæ" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 260-270, 5 figs. "May/June/Sept." 15 Nov. 1952. Recognizes the following subfamilies and tribes (new entities in capitals); *Schoenobiinae*, *Scopariinae*, *Nymphulinae*, *Pyraustinae* (with *HAPALIINI*, *Pyraustini*), *EVERGESTINÆ* (with *EVERGESTINI*, *TITANII* (*sic!*)). Places *Cybalomia* in *Scopariinae*. *Mesographe* and *Pionea* are synonyms of *Evergestis*. Key to subfamilies, based on ♂ genitalia. Classification based on study of almost all European species; its extension to other faunas will require additional tribes, at least. [P.B.]
- Mather, Bryant, "The names of certain butterflies of the eastern United States." *Lepid. News*, vol. 6: pp. 74-76. 1952.
- Michel, Josef, "*Lycæna ismenias* Meigen in Böhmen. Ein Beitrag zur Rassenfrage" [in German]. *Zeitschr. Wiener Ent. Ges.*, vol. 32: pp. 91-103, 1 pl. 30 June 1948. Statistical analysis of captured and reared series in Bohemia. [P.B.]
- Neave, Sheffield Airley, ed., *Nomenclator zoologicus*. vol. 5. 308 pp. Zoological Society of London. 1950. Lists all generic names of animals published from 1936 to 1945 inclusive, and a few omitted from earlier volumes, with citations and phylum, class or order to which assigned. [P.B.]
- Obraztsov, Nicholas, "*Thiodia* Hb. is not a North American genus (Lepidoptera, Tortricidae)." *Ent. News*, vol. 63: pp. 145-149. 1952. States that *Phaneta* Stephens 1852 is the correct generic name for the North American insects usually placed in *Thiodia*. [J.T.]
- Obraztsov, Nikolai, "Neue paläarktische Eucosmini-Arten (Lepidoptera, Tortricidae)" [in German]. *Zeits. Wiener Ent. Ges.*, vol. 37: pp. 122-129, 5 figs. 15 Nov. 1952. Describes as new *Eucosma* (*E.*) *pfisteri* (Tauerbischoffsheim, Baden); *Epiblema* (*E.*) *chrétienii* (High Alps); *E.* (*Notocelia*) *mediterranea* (Madonie, Sicilia); *Epinotia* (*E.*) *mesopotamica* (Mesopotamia). Figures ♂ genitalia of n. spp. and of *E.* (*N.*) *incarnatana* and *roborana*. [P.B.]
- Obraztsov, N., "Zwei neue *Eriopsela*-Arten aus dem Allgäu (Lepidoptera, Tortricidae)" [in German]. *Nachtbl. Mayer. Ent.*, vol. 1: pp. 93-96, 1 fig. 15 Dec. 1952. Describes as new *E. roseni* and *E. bavarica*; figures ♂ genitalia of 3 spp., key to Palaearctic spp. of the genus. [N.O.]
- Obraztsov, N., "*Epiblema scutulana* (Schiff.) (Lepidoptera, Tortricidae)" [in German]. *Tijdschr. voor Ent.*, vol. 95: pp. 323-330, 4 figs. 20 Dec. 1952. Discusses taxonomy and synonymy. [A.D.]
- Orfila, Ricardo N., "Las especies argentinas de *Prepona* Boisd. (Lep. Nymph.)" [in Spanish]. *Rev. Inst. Nac. Invest. Cien. Nat. B. Aires, Cien. Zool.*, vol. 1: pp. 273-321, 1 pl., 16 figs., 6 maps. 1950. Describes as new *P. chromus obsoleta* (Tucumán). Redescribes genus and subgenera *Archæoprepona* and *Prepona* in great detail; redescribes Argentinian spp., figuring range and ♂ genitalia. [P.B.]
- Owen, D. F., "An unusual pairing." *Entomologist*, vol. 85: p. 96. Apr. 1952. *Hepialus lupulinus* ♂ with *H. fusconebulosus* ♀. [P.B.]
- Riley, N. D., "A polymorphic *Charaxes*, *Charaxes etheocles* Hewitson." *Nigerian Field*, vol. 16: pp. 67-69, 10 figs. April 1951. The species or species group includes 7 named forms in West Africa (all figured); their status is uncertain. [P.B.]
- Rindge, Frederick H., "A revision of the geometrid genus *Sericosema* (Lepidoptera)." *Amer. Mus. Novit.*, no. 1468: 30 pp., 7 figs. 18 Oct. 1950. Describes as new *S. wilsonensis macdunnoughi* (Seton Lake, Lillooet, B. C.). Places *S. argentea* as subspecies of *S. immaculata*, and *S. meadowsaria* as subspecies of *S. wilsonensis*. Redescribes genus and the 4 known species. Gives distribution map for each species. Gives keys, based on adults and on genitalia of each sex. [P.B.]
- Rindge, Frederick H., "Taxonomic and life history notes on North American *Eupithecia* (Lepidoptera, Geometridae)." *Amer. Mus. Novit.*, no. 1569: 27 pp., 8 figs. 6 June 1952. Proposes *E. macdunnoughi* n.n. for *E. suspiciosa* McD. (not Dietze). Redescribes *E. suspiciosa*. Synonymizes *E. implicata* under *E. castigata*, and *E. geminata* under *E. coagulata*; *E. coagulata* auctt. must be known as *E. fumosa*. Redescribes *E. johnstoni*. Transfers *E. emmedonia* to *Prorella*. Suggests that *P. mellissa* and *P. insipidata* may be conspecific. Describes pupal structure of 25 spp., figuring posterior end and cremaster; records foodplants. [P.B.]

- Rindge, Frederick H., "A revision of the geometrid genus *Exelis* (Lepidoptera)." *Amer. Mus. Novit.*, no. 1382: 17 pp., 7 figs. 1 Aug. 1952. Describes as new *E. dicolus* (Sulphur City, Washington Co., Ark.); *E. ophiurus* (Burnet Co., Tex.); restricts genus to these two spp. and the type, *E. pyrolaria* (other species belong in *Tornos*). Figures genitalia. Distribution maps and keys to species based on adults and on genitalia of each sex. [P.B.]
- Rindge, Frederick H., "A revision of the North American species of the genus *Syrrhodia* (Lepidoptera, Geometridae)." *Amer. Mus. Novit.*, no. 1469: 26 pp., 6 figs. 20 Oct. 1952. Synonymizes *Catopyrrha* under *Syrrhodia*. Genus includes the *S. decrepitaria* (with ssp. *esperanza*), *S. viridifusaria*, *S. cruentaria*, *S. sphaeromacaria*. Redescribes genus and spp.; figures genitalia and distribution of each species. Gives keys, based on adults and genitalia of each sex. [P.B.]
- Rindge, Frederick H., & Claude I. Smith, "A revision of the genus *Annaphila* Grote (Lepidoptera, Phalaenidae)." *Bull. Amer. Mus. Nat. Hist.*, vol. 98: pp. 187-256, 8 figs. 30 Jan. 1952. Describes as new: subgenus *PROANNAPHILA* (type *A. danistica*); *A. (P.) hennei* (Bob's Gap, south of Llano, Los Angeles Co., Calif.); *A. (P.) mera eremia* (same locality); *A. (A.) abdita* (Pinnacles, San Benito Co., Calif.); *A. (A.) baueri* (Anderson Springs, Lake Co., Calif.); *A. (A.) ida* (Newcomb's Ranch, north of Chilao, San Gabriel Mts., Los Angeles Co., Calif.); *A. (A.) depicta morula* (La Tuna Canyon, Los Angeles Co., Calif.); *A. (A.) spila* (Bridge-man, Madeira Co., Calif.); *A. (A.) evansi* (Mint Canyon, Los Angeles Co., Calif.). Redescribes all spp., figuring genitalia. [See review in *Lepid. News*, vol. 6: p. 111.] [P.B.]
- Roepke, W., "The *katinka* group of the genus *Læpa* (Lepidoptera Heterocera, Saturniidae)." *Tijdschr. Ent.* vol. 96: pp. 227-230, 1 pl., 2 figs. 21 Nov. 1953. Gives a survey of the south-Asiatic subspecies of this group (except for China and Formosa), with figures of six of them, and with figures of the male genitalia of *L. javanica* and *L. megacore*. [A.D.]
- Shoumatoff, Nicholas, "Some statistical concepts in taxonomy." *Lepid. News*, vol. 6: pp. 64-66. 1952.
- van Someren, V. G. L., & T. H. E. Jackson, "The *Charaxes etheocles-ethalion* complex: a tentative reclassification of the group (Lepidoptera: Nymphalidae)." *Trans. Roy. Ent. Soc. London*, vol. 103: pp. 257-284. 15 Nov. 1952. Redescription of 9 spp. and numerous subspecies and "forms". Describes as new *C. pambanus usambaræ* (Usambara); also several "forms". Notes on life history, mimicry, and distribution. [P.B.]
- de la Torre y Callejas, Salvador Luis, "Datos taxonomicos sobre lepidopteros, con notas sobre algunas especies cubanas. (Segunda Parte)" [in Spanish]. *Mem. Soc. Cubana Hist. Nat. "Felipe Poey"*, vol. 21: pp. 61-70. 28 Apr. 1952. Taxonomic notes on 16 genera and spp. (Nymphalidae, Pieridae, Hesperidae). [P.B.]
- Tams, W. H. T., "A revision of the African species of *Sesamia* Guenée and related genera (Agrotidae-Lepidoptera)." *Bull. Ent. Res.*, vol. 43: pp. 645-678, 7 pls. Jan. 1953. Describes as new: *SPELA* (type *Phalæna vuteria* Stoll); *SCIOMESA* (type *Conicofrontia mesoscia* Hampson); *PÆONOMA* (type *Phragmatiphila serrata* Hampson); *P. similis* (Ibadan, S. Nigeria); *P. acantha* (Dungu, Upper Uelle District, Cameroons); *S. botanephaga* (Ilesha, S. Nigeria); *S. jansei* (Preoria; Natal, Durban); *S. poephaga* (Ketekrachi, N. Territories, Gold Coast); *S. penniseti* (Owabi, Ashanti, Gold Coast); *S. poebora* (Kawanda, Uganda); *S. albivena sudanensis* (Temboura, Sudan); *S. a. mocœnsis* (Mt. Moco, Luimbale, Portuguese E. Africa); *S. oriaula* (Bwamba Pass, Ruwenzori Range, Uganda). Redescribes all African spp. of *Sesamia* (except 5 not seen or identified); lists foodplants, when known, and gives distribution. Figures genitalia and other structures of new spp. and some others. Corrects earlier confusion in application of some names. Keys to genera (those listed above, and *Conicofrontia* and *Busseola*) and their spp. [P.B.]
- Travassos, Lauro, "Contribuição ao conhecimento dos "Arctiidae". XXV. Sobre o gênero *ARCTIARPIA* n. g." [in Portuguese]. *Rev. Brasil. Biol.*, vol. 11: pp. 249-253, 10 figs. Sept. 1951. New genus erected for *Idalus melanopasta* Hampson; figures adults and genitalia of both sexes. [P.B.]
- Travassos, Lauro, "Contribuição ao conhecimento dos "Arctiidae". XXVI. Sobre o gênero *XANTHOARCTIA* n. g." [in Portuguese]. *Rev. Brasil. Biol.*, vol. 11: pp. 393-398, 19 figs. Dec. 1951. New genus erected for *Automolis pseudameoides* Rothschild; redescribes species, with numerous illustrations. [P.B.]

- Viette, P., "Contribution à l'étude des Hepialidæ (17^e note). Les genres et leur espèce type" [in French]. *Lambillionea*, vol. 50: pp. 73-80. 25 Oct. 1950. Errata, *ibid.* vol. 52: p. 30. 25 June 1952. Lists the 48 genera recognized as valid, with citations, synonyms, and type species; notes on some doubtful questions of synonymy. [P.B.]
- Viette, P., "Les microlépidoptères de C. Dumont" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 56-59, 4 figs. "Mar-Apr." [31 July] 1951. Describes as new *PHOSPHATICOLA*, *P. gemmatella* (Metliaoui, Tunis) (Schrecksteiniidæ); from Dumont MS. Selects types for 20 spp. described by Dumont (Pyralididæ, Tortricidæ, Gelechiidæ, Ochsenheimeriæ); types in Paris Museum, from Dumont's series. Lists allotypes, when possible, and localities of holotypes. [P.B.]
- Viette, Pierre E. L., "Contribution à l'étude des Cossidæ (2^e note). Les genres et leur espèce type" [in French]. *Lambillionea*, vol. 51: pp. 37-43, 58-60, 68-72. 25 Aug., 25 Oct., 25 Dec. 1951. Proposes *ALLOCRYPTOBIA* n.n. for *Cryptobia* (preoccupied). Lists the 97 genera recognized as valid, with citations, some synonyms, and type species. [P.B.]
- Voss, Edward G., "On the classification of the Hesperiidæ." *Ann. Ent. Soc. Amer.*, vol. 45: pp. 246-258, 25 figs. June 1952. Revised classification, based on bleached and mounted wings, antennæ, palpi, and legs of 54 spp., and more superficial study of others. Places all Skippers in one family, with following subfamilies and tribes: Euschemoninæ, Cœliadinæ, Pyrginæ, Pyrrhopyginæ, Megathyminæ, Trapezitinae (Trapezitidi, Hesperillidi), Hesperiinæ (Heteropteridi, Taractroceridi, Hesperidi, Calpodidi). Gives a tentative phylogenetic chart. [P.B.]
- Warnecke, Georg, "Die Alpenrasse von *Orodemnias quenselii* Payk., nov. subsp. *alpinolans* Warn." [in German]. *Zeits. Wiener Ent. Ges.*, vol. 34: pp. 127-129. 15 Sept. 1949. Points out that typical race is northern, not alpine as previously assumed, and names alpine race (type locality Grossglockner, Carinthia). [P.B.]
- Warren, B. C. S., "Speciation in the genus *Colias*: with special reference to *C. hyale* and *C. australis*" [in English, French summary]. *Lambillionea*, vol. 50: pp. 90-98, 2 pls. 25 Dec. 1950. Discusses difficulties in using ♂ genitalia to characterize spp. of *Colias*. Describes the valid but inconspicuous differences in genitalia between *C. hyale*, *C. australis*, and some other spp. Figures ♂ genitalia of *C. croceus*, *C. paleno europomene*, *C. phicomone*, *C. australis calida*, and *C. hyale*. [P.B.]
- Warren, B. C. S., "On *Pyrgus freija* (Warren) (Lep. Hesperiidæ)." *Entomologist*, vol. 84: pp. 217-220, 1 pl. Oct. 1951. Distinction from *P. centaureæ*. [P.B.]
- Zopp, J., "*Pholus hornbeckiana* Harris = *Pholus vitis* Linné (nec Drury)" [in German]. *Zeits. Wiener Ent. Ges.*, vol. 37: pp. 129-130. 15 Nov. 1952. Points out that *P. hornbeckiana* is a synonym of the true *P. vitis*, and *P. vitis* Drury is a synonym of *P. fasciatus*; notes distinctive pattern features. [P.B.]

C. MORPHOLOGY AND CYTOLOGY

- Dupuis, C., "Données sur la morphogénèse des genitalia mâles des insectes. Leur importance pour une nomenclature rationnelle de ces structures" [in French]. *Trans. 9th Int. Congr. Ent.*, vol. 1: pp. 151-154. March 1953. Reviews his previous study where he proposed to divide male genital organs, judging from their morphogeny, in euphallic and pseudophallic organs. The appendicular origin of these organs allows conclusions as to their being homologous in different groups, and thus enables to simplify and correct the existing multitude of genital terms (*e. g.*, parameres for harpagones, claspers, valvæ, harpes etc.). [A.D.]
- Eassa, Y. E. E., "The development of imaginal buds in the head of *Pieris brassicae* Linn. (Lepidoptera)." *Trans. Roy. Ent. Soc. London*, vol. 104: pp. 39-50, 1 pl., 3 figs. 15 Apr. 1953. Adult head appendages develop near larval ones, from first instar on, growing continuously (larval appendages grow only at molt). [P.B.]
- Federley, Harry, "Meiosis and intersexuality in reciprocal *Drepana* hybrids (Lep.)" *Hereditas*, vol. 35: pp. 49-66, 12 figs. 12 Jan. 1949. Reports incomplete pairing of chromosomes in F₁, and transformation of ovaries to testes as in *Lymantria* intersexes. [P.B.]
- Hausman, Sibyl A., "The scent-producing organ of the male Monarch Butterfly." *Amer. Nat.* vol. 85: pp. 389-391, 1 fig. Nov.-Dec. 1951.
- Hinton, H. E., "The structure of the larval prolegs of the Lepidoptera and their value in the classification of the major groups." *Lepid. News*, vol. 6: pp. 1-6, 4 figs. 8 Aug. 1952.

D. VARIATION AND GENETICS

- Astaurov, B. L., "Triploid artificial parthenogenesis in Mulberry Silkworm" [in Russian]. *Dokl. Akad. Nauk SSSR*, vol. 61: pp. 411-414. 11 July 1948. [Not seen.]
- Hovanitz, William, "Increased variability in populations following natural hybridization." In Jepsen, G. L., et al., *Genetics, Paleontology, and Evolution*, pp. 339-355, 1 pl., 5 maps. Princeton Univ. Press. 1949. Summary of information on presumed cases of hybridization between North American species of *Colias* and *Basilarchia*. [P.B.]
- Kautz, Hans, "Die gelben Formen von *Pieris napi* L." [in German]. *Zeits. Wiener Ent. Ges.*, vol. 35: pp. 42-50. 1 June 1950. Redescribes the named yellow forms of *P. napi* and discusses their distribution and nomenclature. [P.B.]
- Kautz, Hans, "*Pieris napi* L. und *bryoniae* O., neue confluens-Formen" [in German]. *Zeits. Wiener Ent. Ges.*, vol. 38: pp. 25-27. 1 March 1953. Names an aberration and records several other variants. [P.B.]
- Komai, Taku, "Composition of wild populations in the lycenid butterfly *Neozephyrus taxila*." *Amer. Nat.*, vol. 87: pp. 87-95, 2 figs. Mar./Apr. 1953. Analysis of frequency of the 4 pattern types of the polymorphic female in some wild populations, as evidence for the genetic basis of the polymorphism. [P.B.]
- Le Gare, Mary Jude (Sister) & William Hovanitz, "Genetic and ecological analyses of wild populations in Lepidoptera. II. Color pattern variation in *Melitæa chalcidona*." *Wasmann Journ. Biol.*, vol. 9: pp. 257-310. 1951. Very extensive analysis of wing patterns. The authors conclude, among other things, that the changes in color are greatest where the climatic change is greatest. Papers of this type stimulate thought, but are quite sure to divide readers into two camps: adherents and detractors. [J.T.]
- Lever, R. J. A. W., "Faunal speciation in New Georgia, Solomon Islands." *Pacific Sci.*, vol. 7: pp. 250-251, 1 fig. Apr. 1953. Includes note on pattern variation in *Troides victoriæ rubianus*. [P.B.]

E. DISTRIBUTION AND PHENOLOGY

- Beebe, Ralph, "Sampling Michigan Lepidoptera by the fixed light trap." *Lepid. News*, vol. 7: p. 28. 20 Apr. 1953.
- Bourgogne, J., "*Melitæa athalia athalia* Rott. et *M. athalia belvetica* Ruhl (*pseudathalia* Rev.) en France. Étude biogéographique (Lep. Nymphalidæ)" [in French]. *Ann. Soc. Ent. France*, vol. 122: pp. 131-176, 35 figs. "1953" [1954]. Morphological, biometrical, and biogeographical study of the repartition in France of *M. a. athalia* and *M. a. belvetica*. [P.V.]
- Brown, F. Martin, "*Cœneis oslari* Skinner, rediscovered (Lepid., Nymphalidæ [*sic!*])." *Ent. News*, vol. 63: pp. 119-123. 1952. Includes a discussion of terrain and flight habits. [J.T.]
- Hovanitz, William, "The biology of the *Colias* butterflies. III. Variation of adult flight in the arctic and subarctic." *Wasmann Journ. Biol.*, vol. 9: pp. 1-10. 1951. A study of the seasonal appearance of the various arctic and subarctic spp. of *Colias*. Indicates how phenology may be an isolating mechanism. [J.T.]
- Kiriakoff, S., & H. Stempffer, "Un difficile problème de repartition géographique" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 229-235. "May/June/Sept." [15 Nov.] 1952. Explains disjunct distribution of the 4 spp. of Brephidiinae (2 *Brephidium* in the New World, 1 *Brephidium* and *Oraidum barberæ* in South Africa) on the basis of Wegener's theory of continental drift; other possible explanations are considered. [P.B.]
- Lambremont, Edward Nelson, "The butterflies and skippers of Louisiana (Abs.)" *Tulane Univ. Abs. Diss. Theses*, 1951: p. 84.
- de Lesse, H., & P. Viette, "Quelques Lépidoptères de Besse-en-Chandesse (P.-de-D.)" [in French]. *Rev. Franç. Lépid.*, vol. 13: pp. 78-83, 1 fig. "May/June" [10 Aug.] 1951. Annotated list of some 125 micros.
- Lewis, C. B., "Butterfly notes." [Title varies.] *Nat. Hist. Notes Nat. Hist. Soc. Jamaica*, no. 29/30: p. 91; no. 31: p. 111; no. 33: p. 157; nos. 35/36: p. 204; no. 37: p. 13; no. 49: p. 8. 1947-1951. Notes on some Jamaican rarities, including *Papilio sinon*, *P. homerus*, *Eurema gundlachia*, *Brephidium isophthalma*, *Hymenitis diaphane*, etc. [P.B.]
- Lewis, C. B., "The unpredictable butterfly - *Papilio sinon*." *Nat. Hist. Notes Nat. Hist. Soc. Jamaica*, vol. 6: p. 28. Sept./Nov. 1953. Flight period.

F. BIOLOGY AND IMMATURE STAGES

- Acree, Fred, Jr., "The isolation of gyptol, the sex attractant of the female Gypsy Moth." *Journ. Econ. Ent.*, vol. 46: pp. 313-315. Apr. 1953. Chemical properties.
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G. PHYSIOLOGY AND BEHAVIOR

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H. MIGRATION

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I. TECHNIQUE

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