

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, with types in parentheses; 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 (University College of the West Indies, Mona, St. Andrew, Jamaica, B.W.I.). Abstractors' initials are as follows: [P.B.] — P. F. BELLINGER; [I.C.] — I. F. B. COMMON; [A.D.] — A. DIAKONOFF; [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.

D. VARIATION AND GENETICS

- Sicher, Harry, "A mutant of *Strymon titus titus*." *Lepid. News*, vol. 6: p. 107. 19 Feb. 1953.
- Vazquez G., Leonila, "Observaciones sobre pieridos mexicanos, con descripciones de algunas formas nuevas" [in Spanish]. *Ann. Inst. Biol. Mexico*, vol. 19: pp. 469-484, 4 figs. 1948. Notes on variation in 8 spp. Names a number of "forms". [P.B.]
- Warnecke, G., "Neuzeitliche Formen unter den Lepidopteren der Nordseeküsten" [in German]. *Trans. 9th Int. Congr. Ent.*, vol. 1: pp. 569-574, figs. March 1953. Discusses forming of pale colored beach forms of certain Macrolepidoptera in the North Sea region, apparently quite recently, viz. in the postglacial period. Criticizes B. P. BEIRNE'S conclusions on the origin of similar forms in England. [A.D.]
- Wohlfahrt, Th. A., "Untersuchungen über die zeitliche Variabilität des Segelfalters (*Ipbiclidés podalirius* L., Lep.)" [in German]. *Trans. 9th Int. Congr. Ent.*, vol. 1: pp. 165-168, 1 fig., tables. March 1953. Abbreviation of the paper read at the special meeting of The Lepidopterists' Society; cf. *Lepid. News*, vol. 6: pp. 13-27.

E. DISTRIBUTION AND PHENOLOGY

- Baeta-Neves, C. M., "Nota sobre a entomofauna dos produtos armazenados na ilha da Madeira" [in Portuguese]. *Portug. Acta Biol. (B)*, vol.4: pp.346-350. 2 Oct. 1954. *Ephestia kühniella*, in cured tobacco, new to Madeira. [P.B.]
- Bauer, Heinrich, "*Larentia clavaria* Haw. (*Ortholotha cervinata* Schiff.) in Nordbayern (Lep. Geom.)" [in German]. *Nachbrbl. Bayer. Ent.*, vol.3: pp.74-77. 15 Aug. 1954. Discusses records in Bavaria and biology. [N.O.]
- Berger, L. A., "Contribution à l'étude des Pieridæ du Liberia" [in French]. *Bull. Inst. franc. Afr. Noire*, vol.16: pp.1031-1034. Oct. 1954. List of 19 Pieridæ collected in Liberia, with addition of 2 spp. of Lycænidæ. [P.V.]
- Bernardi, G., "Lépidoptères Pierides" in "La réserve naturelle intégrale du Nimba" [in French]. *Mém.Inst. franc. Afr. Noire*, no.40: pp.355-358. 19 Nov. 1954. List of species collected in the Nimba Mts. (French Guinea). [P.V.]
- Blais, J. R., et al., "Effects of weather on the forest tent caterpillar *Malacosoma disstria* Hbn., in central Canada in the spring of 1953." *Canad. Ent.*, vol.87: pp.1-8, 3 figs. 28 Jan. 1955. Epidemic populations in Ontario and eastern Manitoba were drastically reduced by unfavorable spring weather. In Ontario larvæ were killed by a period of freezing weather following early favorable temperatures. In Manitoba prolonged cool wet weather after hatching was the main lethal factor. The parasite *Sarcophaga aldrichii* was not affected by the weather and caused further reduction of the residual population. [E.M.]
- Bradley, J.D., "New British moths." *Country Life*, vol.116: p.1778, 2 figs. 18 Nov. 1954. *Hydræcia bucherardi*, *Adoxophyes orana*, *Tinea columbariella*, new to Britain. [P.B.]

- Chapman, John A., "Observations on snow insects in western Montana." *Canad. Ent.*, vol.86: pp.357-363, 1 fig. 7 Sept. 1954. Females of *Operophtera* sp. (near or = *occidentalis*) on fresh snow in October. [E.M.]
- Daniel, F., "Effets de la période glaciaire sur le cycle évolutif de nos Lépidoptères et considérations générales à propos de la multiplicité des générations annuelles" [in French]. *Bull. Soc. Ent. Mulhouse*, 1954: pp.25-29. April 1954. Effects of the glacial period on the evolutive cycle of Lepidoptera and general considerations about the multiplicity of the yearly emergences. [P.V.]
- Dufay, C., "Une géometride nouvelle pour la faune française: *Boarmia viertlii* Boh." [in French]. *Bull. Soc. Linn. Lyon*, vol.23: pp.227-228. Nov. 1954. *B. viertlii*, described from Hungary, new to France; notes on *Eupithecia cooptata* and *E. spissilineata*. [P.V.]
- Eisenberger, F., "Bildet *Isturgia rovaria* F. in Südbayern eine 2. Generation oder handelt es sich um 2 Stämme?" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.65-66. 15 July 1954. Presumes 2 independent cycles, not 2 generations. [N.O.]
- Esch, Walter, "Bez. 'Kleine Mitteilungen' aus Heft Nr. 7, 2.Jhrg., und Nr. 1, 3.Jhrg." [in German]. *Nachrbl. Bayer. Ent.*, vol.3: p.96. 15 Sept. 1954. Records of *Lymantria monacha* ab. "eremita" and ab. "nigra" in S. Bavaria. [N.O.]
- Evans, W. H., "Lépidoptères hespérides" in "La réserve naturelle intégrale du Mont Nimba" [in French]. *Mém. Inst. franç. Afr. Noire*, no.40: pp.343-346. 19 Nov. 1954. Study of a collection of Hesperiidæ made in the Nimba Mts. (French Guinea). [P.V.]
- Foltin, Hans, "Beitrag zur Fauna von Oberösterreich. Abschliessender Beitrag zur Fauna des Mühlviertels" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: pp.154-160. 15 June 1953. New records. [N.O.]
- Freund, A., "Vertikalverbreitung von *Pionea lutealis* Hb. (Pyrilidæ, Microlepidopt.)" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.22-23, 31-32. 15 Feb., 15 March 1954. Discusses biology and vertical distribution in Bavaria and Austria. [N.O.]
- Galvagni, Egon, "Schmetterlinse aus dem westlichen Alpengebiet Niederösterreichs: aus Waidhofen an der Ybbs, Ybbsitz, Lunz und dem Ybbstal, dem Minichholz bei Steyr (N.-Ö.) und Umgebung; aus Türritz, dem Ötschergebiet, Annaberg und der Walster (Prodrum Zone 1 und 4). Nachträge, Ergänzungen und Erweiterungen zu Dr. med. Carl Schawerdas Lepidopterenfauna des südwestlichen Winkels von Niederösterreich 1913 und 1915 und Franz Saurucks Nachträgen dazu 1927 und 1928" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: pp.201-206. 15 Aug. 1953. Records, species, and localities new for the area. [N.O.]
- Hayek, Walter, "Erstmaliger Nachweis der *Zygana læta* Hb. im Föhrenwald bei Wiener Neustadt" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: p.333. 15 Dec. 1953. First record since 1930. [N.O.]
- Herbulot, C., "Confirmation de l'existence de *Sterrha fathmaria* en France" [in French]. *Entomologiste*, vol.10: p.91. Nov. 1954. New localities in France of *S. fathmaria*, described from North Africa. [P.V.]
- Kusdas, Karl, "Ein Beitrag zur Schmetterlingsfauna des Ennsdorfer Gebietes in Niederösterreich" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: pp.75-77, 103-106, 128-130, 145-147. 1 April, 30 April, 15 May, 15 June 1953. Annotated list.
- Löberbauer, Rudolf, "Gedanken zur geplanten Neuherausgabe der Lepidopteren-Fauna von Oberösterreich" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: pp.185-191. 15 July 1953. Discusses the recent status of the Lepidoptera studies in Upper Austria and makes proposals for future work. [N.O.]
- Tsesche, Rudolf, & Friedhelm Korte, "Über Pteridine. IX. Mittel.: Zur Kenntnis des sogen. fluorescynnins" [in German]. *Chem. Berichte*, vol. 87: pp.1713-1719. 1954.
- MacNay, C. G., "New records of insects in Canada in 1952: a review." *Canad. Ent.*, vol.86: pp.55-60. 10 March 1954. Notes as new to North America: *Cacœcia oporana* (L.) (Tortricidæ, Europe), Vancouver, B.C.; *Monopis ferruginella* Hbn. (Europe), Vancouver; *Cnephasia virgaureana* Tr. (Tortricidæ, Europe), St. Johns, Nfld. *Aphomia gularis* was found infesting a warehouse at Vancouver, the only previous Canadian record having been from Montreal in 1934. *Pblegethontius quinquemaculatus* was found for the first time in Sask., and *Rhyacionia buoliana* in P. E. I. and Nfld. [E.M.]
- Mathewman, W. G., D. G. Harcourt, & J. P. Perron, "Timing of DDT applications for control of caterpillars on cabbage." *Canad. Ent.*, vol.84: pp.346-352. 28 Nov. 1952. Gives incidental notes on seasonal cycles of 3 spp. In 1950, *Pieris rapæ* declined sharply in numbers early in August. This happens in many years as the result of natural control. *Plutella maculipennis* increased sharply at about the same time, while *Trichoplusia ni* remained at consistently low numbers. [E.M.]

- Menhofer, Herbert, "Interessante Falterfunde in Nordbayern" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.102-103, 108-110, 119-125. 15 Oct., 15 Nov., 15 Dec. 1954. New records in N. Bavaria; annotated list. [N.O.]
- Pfister, Hermann, "Beobachtungen an den Scoparien der bayerischen Fauna (Lepid., Pyralid.)" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.117-119. 15 Dec. 1954. Discusses the most interesting of the Bavarian *Scoparia* species and new records. [N.O.]
- Pröse, Herbert, "Thüringische Faunenelemente im bayrischen Vogtland" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.79-80, 86-89. 15 Aug., 15 Sept. 1954. Discusses zoogeographical problems. [N.O.]
- Reiss, Hugo, "Über drei Zygänen, die als regressive Endemiten bezeichnet werden können, deren Entstehung vermutlich in der Pliozänzeit erfolgte" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: pp.131-141, 3 figs., 3 pls. 15 May 1953. Discusses the geological age of *Zygana elegans* Bgff., *Z. giesekingiana* Reiss, and *Z. vesubiana* Le Charles, on the basis of their recent distribution. Figures various species of the genus, their subspecies, and other forms. [N.O.]
- Reisser, Hans, "Weitere Notizen zur Lepidopterenfauna Niederösterreichs" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: pp.247-250. 15 Sept. 1953. New localities. [N.O.]
- Ronniger, Hermann, "Ein neuer Fund von *Grammodes stolidus* F. in Nieder-Österreich" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: p.321. 15 Dec. 1953. New record near Vienna. [N.O.]
- Rougeot, P. C., "Lépidoptères saturniides" in "La réserve naturelle intégrale du Mont Nimba." [in French]. *Mém. Inst. Franç. Afr. Noire*, no.40: pp.339-341. 19 Nov. 1954. List of a collection of Saturniidae from the Nimba Mts. (French Guinea). [P.V.]
- Schütze, Edward, "Eupitheciiden-Studien V. (Lep. Geom.). Kurze faunistische Mitteilungen" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.114-117. 15 Dec. 1954. New records, distributional and biological notes on 7 European spp. [N.O.]
- Schwingenschuss, Leo, "Beitrag zur Lepidopterenfauna von Niederösterreich: St. Peter i. d. Au, Seitenstetten und Umgebung" [in German]. *Zeits. Wiener Ent. Ges.*, vol.38: pp.37-39, 77-78, 101-103, 142-144, 170-176, 196-198, 217-223, 251-255, 282-287, 309-311. 1 March, 1 April, 30 April, 15 May, 15 June, 15 July, 15 Aug., 15 Sept., 15 Oct., 15 Nov. 1953. Annotated list of 599 Macrolepidoptera and 64 Microlepidoptera. Names some aberrations. [N.O.]
- Stempffer, H., "Lépidoptères Lycænides (2^{ème} note)" in "La réserve naturelle intégrale du Mont Nimba" [in French]. *Mém. Inst. franç. Afr. Noire*, no.40: pp.347-354. 19 Nov. 1954. Second note on the Lycænidae collected in the Nimba Mts. (French Guinea). [P.V.]
- Urbahn, Ernst, "1953, ein Jahr überzähliger Faltergenerationen" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.27-31, 36-38, 45-47. 15 March, 15 April, 15 May 1954. Discusses the cause of odd generations in several species in Germany in 1953. [N.O.]
- Wagner, Hans, "*Harmodia tephroleuca* Bsd. und *Rhyacia castanea* f. *cerasina* Frr. in den bayerischen Voralpen" [in German]. *Nachrbl. Bayer. Ent.*, vol.3: pp.41-45. 15 May 1954. Discusses occurrence of the above and some other species in the Alps. [N.O.]

F. BIOLOGY AND IMMATURE STAGES

- Abdel-Malek, Albert, & Edward A. Steinhaus, "Invasion route of *Nosema* sp. in the Potato Tuberworm, as determined by ligaturing." *Journ. Parasitol.*, vol. 34: pp. 452-453. 16 Nov. 1948. Microsporidian penetrates wall of gut of *Gnorimoschema*. [P. B.]
- Acatay, Abdulgafur, "Ein Zederschädling: *Acalla undulana* Wlsgm." [in German]. *Trans. 9th Int. Congr. Ent.*, vol. 1: pp. 708-710, 6 figs. March 1953. Gives life-history and describes injury to *Cedrus* in South Anatolia (Asia Minor). [A. D.]
- Alayc, Pastor, "Notas sobre la *Colobura dirce* (Linn.) (Lepidoptera-Nymphalidae)" [in Spanish]. *Bol. Hist. Nat. Soc. Cubana Hist. Nat. "Felipe Poey"*, vol. 1: p. 97. Sept. 1950. Life history notes; foodplant *Cecropia*. [P. B.]
- Alexseiev, V. A., & V. E. Murav'ev, "An experiment in rearing the Chinese Oak Silkworm (*Antheraea pernyi* Guér.-Men.) on leaves of certain varieties of willows" [in Russian]. *Dokl. Vses. Akad. Sel'sk. Nauk im. Lenina*, vol. 13, no. 11: pp. 37-41, 2 figs. 1948. [Not seen.]
- Alibert, Henri, "Les insectes vivant sur les cacaoyers en Afrique occidentale" [in French]. *Mém. Inst. franç. Afr. Noire*, no. 15: 174 pp., 7 pls., 210 figs. 15 Nov. 1951. Detailed descriptions of all spp. known to attack coffee plants, including 40 Lepidoptera. Discusses biology; figures some adults and early stages. [P. B.]

- Allen, Robert P., "Occurrence of Ugly-nest Caterpillar in California." *Bull. Calif. Dept. Agric.*, vol. 62: pp. 165-170, figs. 1953. Photos of adults, egg masses, larvæ, pupæ and nests; drawings of ♂ and ♀ genitalia; *Archips cerasivorana* (Tortricidæ). [J. T.]
- Ananthanarayanan, K. R., "A short note on the *Eugenia* leaf caterpillar *Carea subtilis* Wlk." *Journ. Bombay Nat. Hist. Soc.*, vol. 50: pp. 418-421, fig. Dec. 1951. Describes early stages. [P. B.]
- Angus, T. A., "A bacterial toxin paralyzing silkworm larvæ." *Nature*, vol. 173: pp. 545-546. 20 March 1954.
- Anonymous, "Insect pests of maize." *Agric. Gaz. N. S. Wales*, vol. 60: pp. 258-262, 5 figs. 1 May 1949. Brief notes on *Cirphis unipuncta*, *Heliothis armigera*, *Dichocrocis punctiferalis*, *Batrachedra rileyi*, *Sitotroga cerealella*, and their control. [P. B.]
- Anonymous, "The Orange-barred Grass Moth (*Eutane terminalis*)."
Agric. Gaz. N. S. Wales, vol. 61: pp. 89-90, 3 figs. 1 Feb. 1950. Reprinted in vol. 63: p. 98; Feb. 1953. Life history (Arctiidæ).
- Anonymous, "Introduccion de insectos beneficiosos para combatir una plaga grave de la caña de azucar en Venezuela" [in Spanish]. *Agr. Venezolana*, no. 146: pp. 40-42, 4 figs. Sept. 1950. Describes damage done by *Diatræe* larvæ and discusses biological control [P. B.]
- Anonymous, "The Peach Tip Moth (*Cydia molesta*)."
Agric. Gaz. N. S. Wales, vol. 62: pp. 422-423, 2 figs. 1 Aug. 1951. Biology and control.
- Anonymous, "The Common Grain Moth (*Sitotroga cerealella*)."
Agric. Gaz. N. S. Wales, vol. 62: pp. 473-475, 3 figs. 1 Sept. 1951. Biology and control.
- Anonymous, "The Bag-shelter Moth (*Ochrogaster contraria*)."
Agric. Gaz. N. S. Wales, vol. 62: pp. 597-599, 6 figs. 1 Nov. 1951. Biology and control; on *Acacia pendula*. [P. B.]
- Anonymous, "The Potato Moth (*Gnorimoschema operculella*)."
Agric. Gaz. N. S. Wales, vol. 62: pp. 664-667, 3 figs. 1 Dec. 1951. Biology and control.
- Anonymous, "Codling Moth (*Cydia pomonella*)."
Agric. Gaz. N. S. Wales, vol. 63: pp. 422-425, 430, 4 figs. 1 Aug. 1952. Biology and control.
- Anonymous, "The *Heliothis* caterpillar (*Heliothis armigera*). The Grape-vine Moth (*Phalænoides glycine*). A tussock moth (*Orgyia anartoides*)."
Agric. Gaz. N. S. Wales, vol. 63: pp. 662-669, 9 figs. Dec. 1952. Biology and control.
- Anonymous, "Insect pests of the Kurrajong." *Agric. Gaz. N. S. Wales*, vol. 64: pp. 95-97, 6 figs. Feb. 1953. Biology of *Sylepta clytusalis* on this tree. [P. B.]
- Anonymous, "A false-looper." *Agric. Gaz. N. S. Wales*, vol. 64: pp. 147-148, 1 fig. March 1953. *Plusia chalcites*, biology and control.
- Anonymous, "La mosca amazonica en Venezuela" [in Spanish]. *Agricultor Venezol.*, vol. 17, no. 160: pp. 4-5, 10 figs. March 1953. Report on successful introduction of dipterous parasites of *Diatræa*. Figures larvæ of latter and adults of 5 spp., and larvæ and adults of 2 spp. of parasites. [P. B.]
- Anonymous, "The Mottled Cup Moth." *Agric. Gaz. N. S. Wales*, vol. 64: p. 265, 1 fig. May 1953. *Doratifera vulnerans*; on *Eucalyptus* and *Tristania*. [P. B.]
- Anonymous, "Los taladradores de la caña de azucar y su control biológico" [in Spanish]. *Agricultor Venezolano*, vol. 19, no. 172: pp. 34-37, 6 figs. Oct. 1954. Biological control of *Diatræa* spp. in Venezuela. [P. B.]
- Atkins, E. Lawrence, "Fruit Tree Leaf Roller on citrus." *Calif. Citrograph*, vol. 36: pp. 246, 254. April 1951. *Archips argyrospila*; Biology and control
- Atkins, E. Lawrence, "Biology and control of Orangeworms." *Calif. Citrograph*, vol. 36: pp. 270, 288-291. May 1951. *Argyrotaenia citrana*, *Pyroderces rileyi*, *Holcocera iceryæella*, *Platynota stultana*.
- Averkiev, I. S., "Experiments in breeding of *Antheræa pernyi* in Mariiskaia ASSR" [in Russian]. *Priroda*, vol. 36, no. 3: pp. 65-67. 1947. [Not seen.]
- Averkiev, I. S., "Lengthening of the hibernation period of cocoons of the Tussah Moth (*Antheræa pernyi* Guer.) and its significance to northern sericulture" [in Russian]. *Zool. Zhurn.*, vol. 33: pp. 644-647. May-June 1954. [Not seen.]
- Avidov, Z., "Biological and ecological studies on the Codling Moth (*Carpocapsa pomonella* L.) in Israel" [in Hebrew, English summary pp. 43-51]. *Ktavim*, vol. 2/3: pp. 155-189, 3 figs. Dec. 1952.
- Baker, H. G., "Biological flora of the British Isles. *Melantrium* (Roehling em.) Fries. (*Lychnis* L. (1753) partim)."
Journ. Ecol., vol. 35: pp. 271-292, 5 figs. Dec. 1947. Larval foodplant of *Eupithecica venosata*, *Hydriomena affinitata*, *H. decolorata*, *Harmodia capsicola*, *H. cucubali*, *H. nana*, *Phthorimæa viscariella*. Records also spp. visiting flowers. [P. B.]

- Balch, R. E., "The Spruce Budworm and aerial forest spraying." *Canad. Geogr. Journ.*, vol. 45: pp. 200-209, 16 figs. 1952. Good figures of larva, pupa, and adult. [P. B.]
- Bauer, David L., "Butterflies at water holes in central Arizona." *Lepid. News*, vol. 7: pp. 146-147. 12 Feb. 1954.
- Beall, Geoffrey, & Richard R. Rescia, "A generalization of Neyman's contagious distributions." *Biometrics*, vol. 9: pp. 354-386, 2 figs. Sept. 1953. Mathematical development of a family of frequency distributions applicable to the occurrence of animals in nature, where the presence of one animal increases the likelihood of others being present; applied to occurrence of *Pyrausta nubilalis*. [P. B.]
- Beaufoy, S., & E. M., "Britain's rarest native butterfly?" *Country Life*, vol. 117: p. 1242, 6 figs. 12 May 1955. Biology of *Strymonidia pruni*. [P. B.]
- Beck, Edwin G., "The histology and biology of the *Solidago* gall caused by the larva of *Gnorimoschema gallaesolidaginis*." *Amer. Journ. Bot.*, vol. 36: p. 794. Dec. 1949. Abstract only.
- Beebe, William, "Two little-known selective insect attractants." *Zoologica*, N. Y., vol. 40: pp. 27-32, 4 pls. 14 May 1955. Reports strong attraction of Danaidae, Ithomiidae, Euechiidae, & Arctiidae (but no other families) to dried wild heliotrope plants; also attraction of Nymphalidae, Morphidae, and Brassolidae to lesions in tangerine trees caused by disease. Species listed; some photographs of feeding insects. [P. B.]
- Bengry, R. P., "Some observations on the noctuid moth *Xanthoblastis timais* Cramer." *Nat. Hist. Notes Nat. Hist. Soc. Jamaica*, no. 46: p. 208, figs. Jan. 1951. Life history; food plant *Hymenocallis caribaea*. [P. B.]
- Benham, Rhoda W., & Jose L. Miranda, "The genus *Beauveria*, morphological and taxonomic studies of several species and of two strains isolated from wharf-piling borers." *Mycologia*, vol. 45: pp. 737-746, 5 figs. Sept./Oct. 1953. Mainly on *B. bassiana*, parasite of the Silkworm. [P. B.]
- Benkevich, V. I., "Spots of the greatest concentration of Gypsy Moth egg deposits" [in Russian]. *Les i Step'*, vol. 4, no. 12: p. 75. Dec. 1952. [Not seen.]
- Berezina, V. M., "Method of using bait rings in attracting *Lymantria monacha* during the oviposition period" [in Russian]. *Sborn. Trud. Inst. Zashch. Rast. Leningrad*, vol. 1: pp. 161-162. 1948. [Not seen.]
- Berezina, V. M., *Winter cutworm (Euxoa segetum)—pest of shelter belts* [in Russian]. 23 pp. Moscow. 1949. [Not seen.]
- Berg, Clifford Osburn, "Limnological relations of insects to plants of the genus *Potamogeton*." *Microfilm Abs.*, vol. 9, no. 2: pp. 187-188. 1949. Abstract only.
- Bergamin, J., "A broca da cana de açúcar" [in Portuguese, English summary]. *Brasil Açucareiro*, vol. 32: pp. 493-498, 595-612, 18 figs. Nov., Dec. 1948. Biology of *Diatraea saccharalis*; figures all stages and 4 parasites. [P. B.]
- Berger, L. A., "Note sur les moeurs d'*Augiades venata* Bremer-Grey" [in French]. *Lambillionea*, vol. 52: pp. 73-75. "1952" [1953]. Note on the rejection of a liquid by the anus and its absorption by the proboscis in the Hesperidae. [P. V.]
- Bergold, Gernot, "Die Isolierung des Polyeder-Virus und die Natur der Polyeder" [in German]. *Zeitschr. Naturforsch.*, vol. 2b: pp. 122-143, 3 figs. 1947. Molecular weights of virus and polyhedral body proteins from *Bombyx mori*, *Porthetria dispar*, and *Lymantria monacha*. [P. B.]
- Bergold, Gernot, "Bündelförmige Ordnung von Polyederviren" [in German]. *Zeitschr. Naturforsch.*, vol. 3b: pp. 25-26, 13 figs. 1948. Electron microscope studies of polyhedral disease virus. [P. B.]
- Bergold, Gernot, "Inaktivierung des Polyeder-Virus durch Kollidon" [in German]. *Zeitschr. Naturforsch.*, vol. 3b: pp. 300-301. 1948. Reports detoxifying effect of this substance on polyhedral virus. [P. B.]
- Bergold, Gernot, "Über die Kapselvirus-Krankheit" [in German]. *Zeitschr. Naturforsch.*, vol. 3b: pp. 338-342, 13 figs. 1948. Virus disease of *Cacæcia murinana* Hb. [P. B.]
- Bergold, G. H., "The multiplication of insect viruses as organisms." *Canad. Journ. Res., Sect. E*, vol. 28: pp. 5-11, 4 pls. Feb. 1950. Pathogens of *Porthetria*, *Bombyx*, *Choristoneura*, *Cacæcia*. [P. B.]
- Bergold, Gernot, & Hans Friedrich-Frekksa, "Zur Grösse und Serologie des *Bombyx-mori*-Polyedervirus" [in German]. *Zeitschr. Naturforsch.*, vol. 2b: pp. 410-414. 1947. On identity and particle size of polyhedral virus. [P. B.]
- Biezanko, Ceslau M., & Rubens E. Bertholdi, "Principais Noctúdeos prejudiciais às plantas cultivadas em arredores de Pelótas." *Rev. Agronomia*, vol. 10: pp. 235-246, 2 pls. 1951. Brief notes on 24 spp. of injurious noctuids of Pelótas, Brasil, with figures of 20 spp. [C. R.]

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