

HUGH BOSDIN LEECH—A CURATOR'S CURATOR

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It is with great pleasure that, on the occasion of his seventieth birthday, we present the following brief biography of our friend and colleague, Hugh B. Leech.

Hugh Bosdin Leech was born on May 10, 1910 at Kamloops, British Columbia, the son of Daniel Herbert Leech and Olive Roberta Shepherd. His early years spent in rural surroundings, amid the beautiful mountains and valleys of southern British Columbia, have clearly had a profound and lasting impact on his view of life in general and the way he has chosen to live.

He received his early schooling at Lakefield Preparatory School in Lakefield, Ontario, Vernon Preparatory School in Vernon, British Columbia, and Salmon Arm High School in Salmon Arm, British Columbia. He went on to earn a B.S.A. degree from the University of British Columbia, Vancouver, in 1933 and concluded his formal education in 1938 with a M.Sc. degree from the University of California at Berkeley.

In 1932, Hugh met Frances Orchid Quail of Fernie, B.C., while both were attending the University of British Columbia. Married in Fernie in March 1936, they now have a daughter (Mary Kathleen, in Walnut Creek, California), three sons (Robin, in Edmonton, Alberta; Tom, in Novato, California; and Bill, in Costa Mesa, California) and 6 grandchildren living in both Canada and the United States. Hugh brought his family to California in 1947, and he became a naturalized U.S. citizen in 1955.

Hugh's interest in natural history, and insects in particular, began at an early age and was encouraged by his parents (Leech, 1948). His first professional position in entomology was in 1929, as a laboratory assistant for the Canada Department of Agriculture at the Field Crop Pests Laboratory in Vernon, British Columbia. During the years 1930-1947 and when not attending university in Vancouver or Berkeley, he held various technical positions with the Forest Entomology Laboratory in Vernon. It was during this period that he met, worked with, and was influenced by the late Ralph Hopping, whom he acknowledges (Leech, 1942) as his mentor in systematics.

In 1947, Hugh joined the Department of Entomology at the California Academy of Sciences as Assistant Curator and began an association which,

to the great benefit of the Academy and its collections, the field of insect systematics, and several generations of insect systematists, continued for 28 years. He retired in May, 1975 as Associate Curator, Department of Entomology, and was immediately appointed Curator Emeritus, the position he now holds.

As any of his many colleagues will agree, Hugh Leech is second to none as a curator. The record of his stewardship for the collection in his charge is unsurpassed, a model for his contemporaries and successors. Under his care and attention, the Academy's Coleoptera collection became one of the best curated in the world and therefore of international importance in systematics. His willingness and promptness in making material available on loan as well as his attentiveness and helpfulness to visitors to the collection have been his trademark. Few curators have had so complete a grasp of contemporary research in their field as Hugh. He routinely followed up on initial loans to researchers with subsequent loans of newly acquired or prepared material—unsolicited, but always welcome additions. He saw to it that any changes in nomenclature and/or classification which appeared in the literature were quickly reflected in the organization of the Academy's collection.

Certain of Hugh's personal traits are especially well suited to curatorial work. He is orderly and precise, tough-minded, independent, but with a keen sense of humor which permits him to keep details in perspective. He is also a superb correspondent, adept at handling the kinds of exchange that characterize the curator's role as interface between collection resources (both specimens and information) and the users of those resources. A trusting person, Hugh has been willing to take a chance on the unproven. Consequently, he has been extremely helpful to students or others just getting started in insect systematics by providing information or loaning specimens when other curators might have refused to do so; and he has done much to foster careers in entomology through his continued encouragement to colleagues, both young and old.

Always interested in literature and writing, Hugh worked hard at building and organizing the entomological libraries at the Academy. The Coleoptera section in particular is especially strong due to his efforts. Perhaps more importantly, he has been an incredible bibliographic resource to his many friends and associates. His command of the literature and ease in providing the key reference in a particular situation have saved many a fellow worker hours which could have been lost in searching through indices and abstracts. His many thorough and detailed book reviews and notices on newly published works (see Appendix A) have been of further service to his colleagues.

Although he has always put his curatorial work first, Hugh's exceptional interest and abilities in both research and fieldwork are well known and



Fig. 1. Hugh Bosdin Leech. Photograph taken at the California Academy of Sciences in 1951 by Edward S. Ross.

respected by his colleagues (see Appendix C for a list of taxa named in his honor). His research has ranged widely over the order Coleoptera (see Appendices A and B) but has centered mainly on the families of aquatic beetles. As with everything he does, Hugh's published works reflect care and precision, as well as a keen eye for details and differences. A recognized authority on several hydradephagan families, as well as the Hydrophilidae, perhaps his best known work is that with H. P. Chandler (Leech and Chandler, 1956) on the aquatic beetles of California. To date, he has described over 50 beetle taxa as new (see Appendix B)—the first (*Agabus vancouverensis* Leech) in 1937, the most recent (two species of *Hygrotus*) in 1966—in an impressive series of papers dealing mainly with western North America.

Hugh has always had great interest in the history of entomology and in entomologists. He is today one of our best single resources on the history of entomology, at least for western North America. His close personal associations with so many entomologists—including M. A. Cazier, W. C. Day, D. G. Denning, J. W. Green, J. L. Gressitt, R. Hopping, P. D. Hurd, Jr., E. L. Kessel, E. R. Leach, E. G. Linsley, E. S. Ross, J. Schuh, G. S. Smith, R. L. Usinger, E. C. Van Dyke, F. X. Williams, E. C. Zimmerman, and many others—span several generations and a period of great change in our field. His detailed biographies of and tributes to deceased colleagues (see Appendix A) provide us with unique and lasting insights into their careers and lives. His concern for the artifacts that make history more tangible, more real, is reflected in his work on and frequent additions to the historical files of the Academy's Entomology Department and of the Pacific Coast Entomological Society.

From his early start in entomology to the present, Hugh has maintained a continued interest in fieldwork. Early in his career, he collected intensely in southern British Columbia. Subsequent opportunities for travel permitted him access to other parts of western North America. He collected in mainland Mexico with E. S. Ross in 1948 and Baja California in 1958–1959 and again in 1963 with P. H. Arnaud, Jr. A particularly productive trip was one to Arizona in July and August, 1952 with J. Wagener Green (see Fig. 2 for some results). However, most of his collecting has been done in California and adjacent states. He has enjoyed collecting either alone or with friends. A close friend and frequent field companion was the late W. C. Day, noted mayfly enthusiast.

As at home in the field as ever, Hugh still enjoys collecting and is usually willing to spend some time in this pursuit at the drop of a hat. Much of his recent effort, as in past years, has been spent collecting insects in the area of his home and, specifically, in rearing insects inhabiting dead wood. He is rapidly accumulating a wealth of information on insect/host plant associations and interspecific interactions.

Hugh officially donated his collection to the California Academy of Sci-

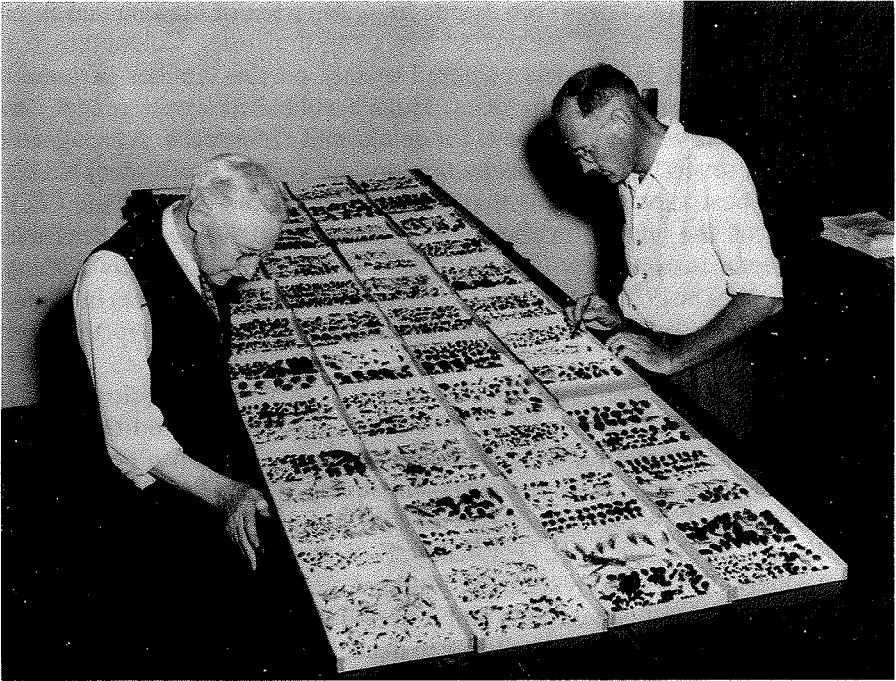


Fig. 2. Dr. Edwin C. Van Dyke and H. B. Leech examining part of the collection made by H. B. Leech and J. W. Green on their expedition to Arizona, July–August, 1952. Photograph taken by Edward S. Ross at the California Academy of Sciences, September 5, 1952.

ences in 1947. At that time, it contained over 30,000 water beetle specimens, including Gyrinidae, Hydrophilidae, and Limnebiidae from the collection of Charles W. Leng. In subsequent years and as a result of his continued productive field activity, he has deposited an incredible amount of additional material in the Academy collection; and accession records of this institution indicate that these contributions now total almost one-quarter of a million specimens. This legacy of carefully prepared and well documented material stands in fitting tribute to his outstanding contribution through fieldwork.

During his career, Hugh has been affiliated with many professional societies, including the American Institute of Biological Sciences, California Academy of Sciences (Fellow), The Coleopterists Society (Executive Council member), Collectors Club (New York), Entomological Society of British Columbia (Past Secretary-Treasurer and Editor), Pacific Coast Entomological Society, Sierra Club, Society of Sigma Xi, and Society of Systematic Zoology. However, his association with the Pacific Coast Entomological Society (PCES) has been a long and fruitful one which deserves special attention.

Hugh's first contact with the Society was in 1931, when he subscribed to volume 7 of *The Pan-Pacific Entomologist*. He was elected to Society membership at the November meeting, 1947, and to Honorary membership in December 1975. He served as Co-editor of *The Pan-Pacific Entomologist* (PPE) (with P. D. Hurd, Jr.) for volumes 26 (1950) through 29 (1953). He was Vice-President of the Society in 1955 and President in 1956, served four successive three-year terms on the PCES Publications Committee (1952–1963), has been a member of the PPE Editorial Board since 1954, and was Chairman of the Historical Committee for many years prior to his retirement in 1975. In addition, he reviewed many books for the Society with written reviews and/or actual displays of books at Society meetings; and he was active in circulating duplicate reprints and other literature among Society members. Perhaps most conspicuous among his functions for the Society was as a gracious, informative, and helpful host at the Academy for all attending monthly meetings of the Society.

Following his retirement, Hugh and Frances moved into a log house on 44 acres of land on Howell Mountain, just east of Angwin, in Napa County, California. He keeps himself in excellent condition, working his gardens with hand tools and hours of his labor. He leads a hard and relatively uncluttered life—just the way he likes it; and there are plenty of plants and animals, especially insects, around to entertain and surprise him as they always have.

For his outstanding achievements, for his vital part in our Society for almost 50 years, and for being such a helpful and generous colleague, we salute Hugh B. Leech—a Curator's Curator!

Acknowledgments

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Literature Cited

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- Leech, H. B. 1948. Daniel Herbert Leech, 1878–1941. *Proc. Entomol. Soc. B.C.* (1947), 44:36–38.
- Leech, H. B., and H. P. Chandler. 1956. Aquatic Coleoptera (Chapter 13). Pp. 293–371, figs. 13.1–13.67. *In* Usinger, R. L., *Aquatic insects of California, with keys to North American genera and species*. University of California Press, Berkeley and Los Angeles, x + 508 pp.

Appendix A

Bibliography of the Entomological Publications of Hugh Bosdin Leech
(through 1977)

This bibliography lists all known, published, entomological contributions by Hugh B. Leech in chronological order. It has been compiled from a handwritten manuscript list that was loaned by Leech to the Department of Entomology. We have edited the Leech manuscript extensively, added some titles, and modified others to a consistent style. All items have been checked against the originals except for item 84 (which was not available to us). Untitled notes presented in the Proceedings of the Pacific Coast Entomological Society (PCES) and in other publications are provided with titles cited within brackets. Some bracketed titles cited from the Proceedings of the PCES are quoted from E. Gorton Linsley's "Fifty Years of The Pan-Pacific Entomologist" (Pan-Pac. Entomol., 50(4):309-415), while others are original.

We list remarks and notes presented by Leech at meetings of the PCES and published in the Proceedings of this Society under his authorship, because we feel that this information should be attributed to him, even though it appears in minutes signed by successive Society secretaries. Dates of publication are given at the end of individual numbered entries when such data were cited in the Leech manuscript.

1930

1. Notes on *Phymatodes vulneratus* LeC. with a new host record (Coleoptera, Cerambycidae). Can. Entomol., 62(9):191-192. Published September 27.

1931

2. Notes on new methods of collecting beetles. Proc. Entomol. Soc. B.C., (1930), 27:11-12. Published March 21.
3. Coleoptera by "smoking" stumps. Bull. Brooklyn Entomol. Soc., 26(1):12. Published April 2.
4. *Drosophila funebris* as a host of the fungus *Stigmatomyces*. Proc. Entomol. Soc. B.C., 28:19-20. Published Fall of 1931, probably November.

1934

5. Almost a cannibal. Bull. Brooklyn Entomol. Soc., 29(1):41. Published February 17.

1935

6. The family history of *Nicrophorus conversator* Walker. Proc. Entomol. Soc. B.C., (1934), 31:36–40. Published February 23.
7. An occurrence of *Trichocera garretti* Alex. and a larval predator (Diptera[,] Trichoceridae and Coleoptera, Staphylinidae). Can. Entomol., 67(8):182–183. Published August 31.
8. British Columbian records of Carabidae and Hydrophilidae (Coleoptera). Pan-Pac. Entomol., 11(3):120–124. Published October 8.

1936

9. A rare *Aphodius*. Bull. Brooklyn Entomol. Soc., 31(2):56. Published April 16.
10. (by G. R. Hopping and H. B. Leech). Sawfly biologies. 1. *Neodiprion tsugae* Middleton. Can. Entomol., 68(4):71–79, pls. 4–5. Published May 9.
11. [*Bessa selecta* possible parasite of larch sawfly]. Can. Insect Pest Rev., 14(2):99.

1937

12. Correction. Proc. Entomol. Soc. B.C., (1936), 33:34. Published February 27.
13. [Insects (or near relatives) of economic importance recently noted in British Columbia]. Orthoptera: *Periplaneta australasiae* (Fabr.). Proc. Entomol. Soc. B.C., (1936), 33:46. Published February 27.
14. (by G. R. Hopping and H. B. Leech). [Insects (or near relatives) of economic importance recently noted in British Columbia]. Hymenoptera: *Mesoleius tenthredinis* Morley. Proc. Entomol. Soc. B.C., (1936), 33:47. Published February 27.
15. A new North American *Agabus*, with notes on other species. (Coleoptera: Dytiscidae). Can. Entomol., 69(7):146–150, figs. 1–4. Published July 31.
16. Notes on certain names in use in the *vespilloides* group of *Nicrophorus* Fab. (Coleoptera: Silphidae). Bull. Brooklyn Entomol. Soc., 32(4):156–159. Published October 7.

1938

17. A new species of *Gyrinus*, with a note on *Dineutus robertsi* Leng. (Coleoptera, Gyrinidae). Can. Entomol., 70(3):59–61. Published April 2.
18. Hibernation of the cerambycid *Plectrura spinicauda* Mann. Pan-Pac. Entomol., 14(2):69. Published June 13.

19. A new species of *Coelambus* from California (Coleoptera: Dytiscidae). Pan-Pac. Entomol., 14(2):84–86. Published June 13.
20. Descriptions of three new species of *Agabus* from Hudson Bay. (Coleoptera: Dytiscidae). Can. Entomol., 70(6):123–127, figs. 1–4. Published July 2.

1939

21. (by Ralph Hopping and H. B. Leech). Summary report of British Columbia section. Ann. Rep. Forest Insect Surv., 1938:10–11.
22. On some Nearctic species of *Agabus*, with the description of a new species. (Coleoptera: Dytiscidae). Can. Entomol., 71(10):217–221, figs. A–C. Published November 3.
23. Three new species of Nearctic rove beetles from the Pacific Coast (Coleoptera, Staphylinidae). Can. Entomol., 71(12):258–261, figs. 1–3. Published December 30.

1940

24. *Dineutus* in California (Coleoptera, Gyrinidae). Pan-Pac. Entomol., 16(2):74. Published May 23.
25. Description of a new species of *Laccornis*, with a key to the Nearctic species (Coleoptera, Dytiscidae). Can. Entomol., 72(6):122–128, pl. 8. Published June 29.

1941

26. Note on the species of *Agabinus* (Coleoptera, Dytiscidae). Can. Entomol., 73(3):53. Published April 5.
27. The species of *Matus*, a genus of carnivorous water-beetles (Coleoptera, Dytiscidae). Can. Entomol., 73(4):77–83, figs. 1–8 on pl. 6. Published May 31.
28. Collecting of the rare water beetle *Laccornis difformis* (LeC.) by the late Ch. Roberts. Can. Entomol., 73(4):96. Published May 31.
29. The male of *Hydroporus coelamboides*. Can. Entomol., 73(4):96. Published May 31.
30. Descriptions of two new species of water beetles of the genus *Hydroporus* from California (Coleoptera, Dytiscidae). Pan-Pac. Entomol., 17(3):129–132, figs. 1–9. Published July 31.
31. The generic name *Thermonectus* Dejean (Coleoptera, Dytiscidae). Can. Entomol., 73(11):197. Published December 5.
32. [Book review]. British water beetles. Ann. Entomol. Soc. Amer., 34(4):808. Published December 19.
33. The dates of publication of two articles on Coleoptera by John L.

LeConte, issued in 1845. Entomol. News, 52(10):290-291. Published December 30.

1942

34. [Obituary]. Ralph Hopping (1868-1941). Proc. Entomol. Soc. B.C., (1941), 38:2-4, 1 pl. Published February 7.
35. [Announcement of the deaths of Ralph Hopping and F. C. Hennessey]. Entomol. News, 53(2):60. (data supplied by H. B. Leech).
36. The dates of publication of certain numbers of the Proceedings of the Entomological Society of British Columbia. Proc. Entomol. Soc. B.C., (1941), 38:29-36. Published February 7.
37. Mandibular shapes in water beetles of the genus *Thermonectus* (Coleoptera, Dytiscidae). Can. Entomol., 74(3):56, figs. 1-2. Published March 31.
38. Dimorphism in the flying wings of a species of water beetle, *Agabus bifarius* (Kirby) (Coleoptera: Dytiscidae). Ann. Entomol. Soc. Amer., 35(1):76-80, figs. 1-3. Published April 21.
39. Female mutillids eating butter. Pan-Pac. Entomol., 18(2):89. Published April 29.
40. New or insufficiently known Nearctic species and subspecies of *Agabus* (Coleoptera, Dytiscidae). Can. Entomol., 74(7):125-136, pl. 10. Published August 26.
41. Key to the Nearctic genera of water beetles of the tribe Agabini, with some generic synonymy (Coleoptera: Dytiscidae). Ann. Entomol. Soc. Amer., 35(3):355-362, pl. 1. Published September 30.
42. *Agabus ontarionis* Fall. Proc. Entomol. Soc. B.C., 39:22. Published October 10.
43. *Hemichroa crocea* (Fourcroy). Proc. Entomol. Soc. B.C., 39:35. Published October 10.
44. *Gyrinus pectoralis* LeConte. Proc. Entomol. Soc. B.C., 39:35. Published October 10.
45. Dr. F. Guignot's synonymy of *Agabus dispositus* Guignot (Coleoptera: Dytiscidae). Can. Entomol., 74(10):194. Published November 18.

1943

46. Fall flight of Bruce's measuring worm, *Oporophtera bruceata* Hulst. (Lepidoptera, Geometridae). Can. Entomol., 75(1):20. Published February 18.
47. Black flour beetle, *Tribolium madens* Charp., in British Columbia (Coleoptera, Tenebrionidae). Can. Entomol., 75(2):40. Published March 10.

48. *Berosus exilis* LeConte a *Hemiosus* (Coleoptera, Hydrophilidae). Pan-Pac. Entomol., 19(2):61-62. Published May 22.
49. Further note on *Thermonectus* (Coleoptera, Dytiscidae). Can. Entomol., 75(8):145. Published September 17.
50. *Culicoides gigas* R. & H. at Vernon, B.C. (Diptera: Ceratopogonidae). Proc. Entomol. Soc. B.C., 40:23. Published September 20.
51. *Marathyssa inficita* Walker at Oliver, B.C. (Lepidoptera: Phalaenidae). Proc. Entomol. Soc. B.C., 40:25. Published September 20.
52. Miscellaneous records of beetles in British Columbia (Coleoptera: Hydrophilidae, Elateridae, Buprestidae, Lathridiidae, Chrysomelidae, Curculionidae). Proc. Entomol. Soc. B.C., 40:26-27. Published September 20.
53. *Tropisternus paredesi*, nuevo coleoptero acuatico palpicornio de Nayarit, Mexico (Coleoptera, Hydrophilidae [sic!]). Rev. Soc. Mex. Hist. Nat., 4(1-2):17-20, figs. 1-6.
54. (by G. R. Hopping, H. B. Leech, W. G. Mathers, and C. V. G. Morgan). [The larch sawfly in the Okanagan Valley and Trinity Valley district, British Columbia]. Can. Insect Pest Rev., 21(2):258.
55. (by W. G. Mathers, H. B. Leech, and C. V. G. Morgan). [Parasitism of the larch sawfly by *Mesoleius* and *Tritneptis* in British Columbia]. Can. Insect Pest Rev., 21(2):258.
56. (by Geo. R. Hopping, H. B. Leech, and Cecil V. G. Morgan). The larch sawfly, *Pristiphora erichsonii* (Hartig) in British Columbia, with special reference to the cocoon parasites *Mesoleius tenthredinis* Morley and *Tritneptis klugii* (Ratzeburg). Sci. Agric., 24(2):53-63, fig. 1.

1944

57. List of six species of gyrid water beetles collected by J. L. Gressitt in China and Japan. (Coleoptera, Gyrinidae). Pan-Pac. Entomol., 20(1):22. Published January 31.
58. Spring flight of *Atimia dorsalis* (Coleoptera, Cerambycidae). Pan-Pac. Entomol., 20(1):30. Published January 31.
59. *Laccophilus shermani*, a new species of water beetle from Arizona and Texas (Coleoptera: Dytiscidae). Entomol. News, 55(1):4-6.
60. The cerambycid beetle, *Phymatodes dimidiatus*, in cedar structural timbers. Can. Entomol., 76(10):211. Published November 10.
61. Death of Gustaf Falkenström. Can. Entomol., 76(10):211. Published November 10.
62. [Recent literature]. Stoneflies of southwestern British Columbia, by

- William E. Ricker; British Columbia dragonflies with notes on distribution and habits, by F. C. Whitehouse; The caddis flies, or Trichoptera, of Illinois, by Herbet [sic!] H. Ross; Comparative external morphology, phylogeny, and a classification of the bees (Hymenoptera), by Charles Duncan Michener; British Columbia Provincial Museum, Handbook Series. Proc. Entomol. Soc. B.C., 41:front cover verso. Published December 8.
63. Corrections, vols. 38 & 40. Proc. Entomol. Soc. B.C., 41:front cover verso. Published December 8. (unsigned note).
 64. Virtual absence of vespine wasps in the summer of 1944 (Hymenoptera, Vespidae). Proc. Entomol. Soc. B.C., 41:4. Published December 8.
 65. Note on *Dalopius tristis* and *D. insulanus* (Coleoptera, Elateridae). Proc. Entomol. Soc. B.C., 41:25. Published December 8.
 66. *Eucorethra underwoodi* at Summerland, B.C. (Diptera: Culicidae). Proc. Entomol. Soc. B.C., 41:36. Published December 8.
 67. The flea beetle *Orestioides robusta* in British Columbia (Coleoptera: Chrysomelidae). Proc. Entomol. Soc. B.C., 41:36. Published December 8.
 68. *Campylenchia latipes* on aster (Homoptera: Membracidae). Proc. Entomol. Soc. B.C., 41:36. Published December 8.
 69. The bug *Corythucha padi* on bracken fern. (Hemiptera: Tingidae). Proc. Entomol. Soc. B.C., 41:36. Published December 8.
 70. Summary report of Forest Insect Survey, British Columbia and western Alberta. Ann. Rep. Forest Insect Surv., Forest Insect Invest., 1943:62-68. Received by mail at Vernon, B.C., January 17, 1945.

1945

71. A few additions and corrections to R. E. Blackwelder's "Checklist of the coleopterous insects of Mexico, Central America, the West Indies, and South America. Part I." Entomol. News, (1944), 55(10):266-268. Published January 25.
72. On three species of *Agabus* recorded from the State of Montana (Coleoptera, Dytiscidae). Pan-Pac. Entomol., 21(1):16.
73. The specific characters and distribution of *Agabus vancouverensis* and *A. hypomelas* (Coleoptera, Dytiscidae). Can. Entomol., 77(5):77-78. Published September 10.
74. Three new species of Nearctic *Deronectes* (Coleoptera, Dytiscidae). Can. Entomol., 77(6):105-110, figs. 1-4. Published November 2.

75. Summary report of the Forest Insect Survey, British Columbia and Rocky Mountain National Parks. Ann. Rep. Forest Insect Surv., Forest Insect Invest., 1944:62-70. Published in November.
76. [Recent literature]. An annotated list of the Scolytoidea of Washington, by Gordon K. Patterson and Melville H. Hatch; Field crop insects in the Prairie Provinces, Bulletin No. 5, published by Line Elevators Farm Service; A source-book of biological names and terms, by Edmund C. Jaeger; Checklist of the coleopterous insects of Mexico, Central America, the West Indies and South America, by Richard E. Blackwelder. Proc. Entomol. Soc. B.C., 42:front cover verso. Published December 8. (unsigned book reviews).
77. *Eros thoracicus* in British Columbia (Coleoptera: Lycidae). Proc. Entomol. Soc. B.C., 42:2. Published December 8.
78. *Aphodius alternatus* in British Columbia (Coleoptera: Scarabaeidae). Proc. Entomol. Soc. B.C., 42:2. Published December 8.
79. British Columbia and Alberta records in E. C. Lerch's "A list of Homoptera from Ontario." Proc. Entomol. Soc. B.C., 42:8. Published December 8.
80. *Holopleura marginata* in British Columbia (Coleoptera: Cerambycidae). Proc. Entomol. Soc. B.C., 42:18. Published December 8.
81. *Agabus confertus* eating chironomid larvae. (Coleoptera, Dytiscidae, Diptera). Proc. Entomol. Soc. B.C., 42:18. Published December 8.
82. *Limonius rufihumeralis* in British Columbia (Coleoptera: Elateridae). Proc. Entomol. Soc. B.C., 42:26. Published December 8.
83. *Stenichnus ovipennis* in British Columbia (Coleoptera: Scydmaenidae). Proc. Entomol. Soc. B.C., 42:28. Published December 8.

1946

84. On writing articles for the Proceedings of the Entomological Society of British Columbia. (Mimeographed; 25 or more copies sent out on January 14, 1946, 8 pp., 1 table. Produced at the Forest Insect Laboratory in the Court House, Vernon, B.C.) Published January 14.
85. Remarks on some Pacific Coast species of *Tropisternus* (Coleoptera: Hydrophilidae). Can. Entomol., (1945), 77(10):179-184, figs. 1-5. Published March 28.
86. Flights of *Nymphalis californica* Bdv. in British Columbia and Alberta in 1945. Can. Entomol., (1945), 7(11):203. Published April 18.
87. British Columbia and Rocky Mountain National Parks. Ann. Rep. Forest Insect Surv., Forest Insect Invest., 1945:61-67. Published in November.
88. Forest insect survey [British Columbia (interior)]. Dom. Dept. Agric., Forest Insect Invest., Bi-Mon. Progr. Rep., 2(5):3.

1947

89. [Recent literature]. Tenthredinoidea of Southeast Asia with a general zoogeographical review, by Rene Malaise. Proc. Entomol. Soc. B.C., (1946), 43:title page verso. Published February 4.
90. [Recent literature]. The butterflies of Washington. By Ben V. Leighton. Proc. Entomol. Soc. B.C., (1946), 43:title page verso. Published February 4.
91. [Recent literature]. The North American clear-wing moths of the family Aegeriidae. By George P. Engelhardt. Proc. Entomol. Soc. B.C., (1946), 43:title page verso. Published February 4.
92. A list of twenty species of spiders collected at Salmon Arm, B.C. Proc. Entomol. Soc. B.C., (1946), 43:22. Published February 4.
93. Rearing of *Agromyza albitarsis* and its parasite *Opius* sp. (Diptera: Agromyzidae, and Hymenoptera: Braconidae). Proc. Entomol. Soc. B.C., (1946), 43:22. Published February 4.
94. A few records of spiders from British Columbia and Alberta. Proc. Entomol. Soc. B.C., (1946), 43:22. Published February 4.
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240. [Recently published]. [Four titles of publications listed]. Pan-Pac. Entomol., 37(1):52. Published March 24. (unsigned listing).

241. [Book notice]. Dictionary of word roots and combining forms. Compiled from the Greek, Latin, and other languages, with special reference to biological terms and scientific names. By Donald J. Borror. Pan-Pac. Entomol., 37(1):52. Published March 24.
242. [Collecting trips by Borys Malkin and P. D. Hurd, Jr.]. In Proc. Pac. Coast Entomol. Soc., 269th meeting. Pan-Pac. Entomol., 37(1):61-62. Published March 24.
243. [Exhibition of two books]. In Proc. Pac. Coast Entomol. Soc., 271st meeting. Pan-Pac. Entomol., 37(1):64. Published March 24.
244. [Set of *Entomological Newsletter* donated to Historical files]. In Proc. Pac. Coast Entomol. Soc., 272nd meeting. Pan-Pac. Entomol., 37(1):65. Published March 24.
245. Note on two editions of J. C. Bradley's 1919 paper "An entomological cross-section of the United States." Pan-Pac. Entomol., 37(2):84. Published June 14.
246. [Book notice]. Forest and shade tree entomology. By Roger F. Anderson. Pan-Pac. Entomol., 37(2):143-144. Published June 14.
247. (by H. B. Leech and Joe Schuh). *Graphoderus perplexus* (Sharp) in California (Coleoptera: Dytiscidae). Pan-Pac. Entomol., 37(4):234. Published November 7.

1962

248. [Book notices]. The Aphidoidea of the Middle East, by F. S. Bodenheimer and E. Swirski; Check-list and bibliography on the occurrence of insects in birds' nests, by E. A. Hicks; Wonder-workers of the insect world, by H. J. Herbert, foreword by Lucy W. Clausen. Pan-Pac. Entomol., 38(1):28. Published March 28.
249. [Book notices]. A monograph of the immature stages of Neotropical timber beetles (Cerambycidae), by E. A. J. Duffy; Mites or the Acari, by T. E. Hughes. Pan-Pac. Entomol., 38(1):39-40. Published March 28.
250. [Recent literature]. [List of five items published in the *University of California Publications in Entomology*, 1958-1961]. Pan-Pac. Entomol., 38(1):43. Published March 28.
251. [Recent literature]. [Two publications listed]. Pan-Pac. Entomol., 38(1):48. Published March 28.
252. [Book notice]. Modern insecticides and world food production. By F. A. Gunther and L. R. Jeppson. Pan-Pac. Entomol., 38(1):55. Published March 28.
253. [Book notice]. Bionomics, systematics, and phylogeny of *Lytta*, a genus of blister beetles (Coleoptera, Meloidae). By R. B. Selander. Pan-Pac. Entomol., 38(1):62. Published March 28.
254. [Book notices]. Insect migration, by C. B. Williams; Collecting, pre-

- serving and studying insects, by Harold Oldroyd. *Pan-Pac. Entomol.*, 38(1):62. Published March 28.
255. [Exhibition of two new books]. *In Proc. Pac. Coast Entomol. Soc.*, 273rd meeting. *Pan-Pac. Entomol.*, 38(1):65. Published March 28.
256. [Science Fair judging]. *In Proc. Pac. Coast Entomol. Soc.*, 274th meeting. *Pan-Pac. Entomol.*, 38(1):66. Published March 28.
257. [Book notice]. The ground-beetles (Carabidae, excl. Cicindelinae) of Canada and Alaska. Part 2. By Carl H. Lindroth. *Pan-Pac. Entomol.*, 38(1):73–74. Published March 28.
258. [Book review]. A manual of common beetles of eastern North America. By Elizabeth S. and Lawrence S. Dillon. *Pan-Pac. Entomol.*, 38(2):112–115. Published June 29th.
259. [Discovery in books]. Soil animals. By D. Keith McE. Kevan. *Pac. Discovery*, 15(4):31. Published June 29.
260. [Discovery in books]. Pacific Insects. Official organ of the program "Zoogeography and Evolution of Pacific Insects," published by the Department of Entomology, Bernice P. Bishop Museum, Honolulu. *Pac. Discovery*, 15(5):31. Published August 28.
261. Live *Buprestis aurulenta* in boards of a house built in 1923 (Coleoptera: Buprestidae). *Pan-Pac. Entomol.*, 38(3):159–161, figs. 1–3. Published September 27.
262. [Book notice]. The Cerambycidae of North America. Parts I–III. By E. Gorton Linsley. *Pan-Pac. Entomol.*, 38(4):214. Published December 28.
263. [Book notice]. The Anobiidae of Ohio (Coleoptera). By Richard E. White. *Pan-Pac. Entomol.*, 38(4):214. Published December 28.

1963

264. [Discovery in books]. The strange lives of familiar insects. By Edwin Way Teale. *Pac. Discovery*, 16(1):32. Published January 9.
265. [Recent literature]. Biological characteristics of the mutillid subgenus *Photopsis* Blake and their systematic values (Hymenoptera), by William E. Ferguson; A revisional study of the bees of the genus *Perdita* F. Smith, with special reference to the fauna of the Pacific Coast, (Hymenoptera, Apoidea), Part V, by P. H. Timberlake. *Pan-Pac. Entomol.*, 39(1):18. Published March 29.
266. [Book notice]. Revision des hydrocanthares d'Afrique (Coleoptera Dytiscoidea). By Félix Guignot. *Pan-Pac. Entomol.*, 39(1):18. Published March 29.
267. [Notice of the death of Gordon Stace Smith]. *In Proc. Pac. Coast Entomol. Soc.*, 278th meeting. *Pan-Pac. Entomol.*, 39(1):59. Published March 29.

268. [Notice of the death of Mrs. Ralph Hopping]. *In Proc. Pac. Coast Entomol. Soc.*, 281st meeting. *Pan-Pac. Entomol.*, 39(1):62. Published March 29.
269. [Collection of beetles received from Burdette E. White]. *In Proc. Pac. Coast Entomol. Soc.*, 281st meeting. *Pan-Pac. Entomol.*, 39(1):62. Published March 29.
270. [Notice of the death of Georg Pronin]. *In Proc. Pac. Coast Entomol. Soc.*, 282nd meeting. *Pan-Pac. Entomol.*, 39(1):63. Published March 29.
271. *Centrodera spurca* (LeConte) and two new species resembling it, with biological and other notes (Coleoptera: Cerambycidae). *Proc. Calif. Acad. Sci.*, (G Dallas Hanna Anniversary Volume), (4)32(7):149-218, figs. 1-28. Published May 20.

1964

272. [Book notice]. A catalogue of the Nearctic Chalcidoidea (Insecta: Hymenoptera). By Oswald Peck. *Pan-Pac. Entomol.*, 40(1):10. Published March 30.
273. [Book notice]. Insect pathology. An advanced treatise. Volume 1. Edited by Edward A. Steinhaus, with seventeen contributing authors. *Pan-Pac. Entomol.*, 40(1):12. Published March 30.
274. [Recent literature]. [List of four items from the *University of Utah Biological Series*]. *Pan-Pac. Entomol.*, 40(1):20. Published March 30.
275. [Book notice]. Experiments in genetics with *Drosophila*. By Monroe W. Stickberger. *Pan-Pac. Entomol.*, 40(1):32. Published March 30.
276. [Book notice]. A review of the biological control attempts against insects and weeds in Canada. Commonwealth Agricultural Bureaux, Farnham Royal, Bucks, England. *Pan-Pac. Entomol.*, 40(1):60. Published March 30.
277. A new species of *Agabus* from the Death Valley region of California (Coleoptera: Dytiscidae). *Coleopt. Bull.*, 18(3):79-82, figs. 1-6.
278. [Lawrence W. Saylor collection of scarabaeid beetles now in the California Academy of Sciences]. *Acad. Newsletter*, 299:[3]. Published late October or early November. (unsigned note).
279. [Acquisition by the California Academy of Sciences of the J. R. Helfer collection of Buprestidae]. *Acad. Newsletter*, 301:[5]. January, 1965 issue. Published December 24. (unsigned note).

1965

280. [Recent literature]. The skippers of the genus *Hesperia* in western North America with special reference to California (Lepidoptera: Hesperiiidae). By C. Don MacNeill. *Pan-Pac. Entomol.*, 41(1):29. Published March 4.

281. [Recent literature]. The ecology and morphology of *Thinobius frizzelli* Hatch, an intertidal beetle, by Trevor Kincaid; The staphylinid genera *Pontomalota* and *Thinusa*, by Trevor Kincaid. Pan-Pac. Entomol., 41(1):53. Published March 4.
282. *Haliplus subguttatus* Roberts from Washington and Oregon (Coleoptera: Haliplidae). Wasmann J. Biol., 22(2):323–329, figs. 1–4. Published May 24.
283. [Recent literature]. The Cerambycidae of North America. Part IV, Taxonomy and classification of the subfamily Cerambycinae, tribes Elaphidionini through Rhinotrugini; Part V, Taxonomy and classification of the subfamily Cerambycinae, tribes Callichromini through Ancylocerini; by E. Gorton Linsley. Pan-Pac. Entomol., 41(2):113. Published June 11.

1966

284. [Recent literature]. The ground-beetles (Carabidae, excl. Cicindelinae) of Canada and Alaska. Part 3. By Carl H. Lindroth. Pan-Pac. Entomol., 42(1):24. Published March 3.
285. (by John L. Carr and H. B. Leech). The rediscovery of *Agabus audeni* Wallis, and a note on *Agabus coxalis* Sharp (Coleoptera: Dytiscidae). Can. Entomol., 98(5):544–550, figs. 1–18. Published in May.
286. *Ochthebius bruesi* Darlington in California and Utah (Coleoptera: Hydraenidae). Pan-Pac. Entomol., 42(2):137–139, figs. 1–3. Published June 14.
287. [Book notice]. Index Litteraturae Entomologicae, Series II: Die Welt-Literatur über die gesamte Entomologie von 1864 bis 1900. Band I, A–E. Von Walter Derksen und Ursula Scheiding. Pan-Pac. Entomol., 42(2):155. Published June 14.
288. Descriptions of the larva and pupa of *Necydalis cavipennis* LeConte and the pupa of *Ortholeptura insignis* Fall (Coleoptera: Cerambycidae). Occas. Pap. Calif. Acad. Sci., 57, 13 pp., figs. 1–13. Published June 30.
289. The *pedalis*-group of *Hygrotus*, with descriptions of two new species and a key to the species (Coleoptera: Dytiscidae). Proc. Calif. Acad. Sci., (4)33(15):481–498, figs. 1–14, pl. 1 (colored). Published July 8.
290. A note on two editions of S. S. Haldeman's descriptions of insects in the Stansbury Report (Lepidoptera, Hymenoptera, Hemiptera (s. lat.), Orthoptera, Coleoptera). Pan-Pac. Entomol., 42(3):208–210, figs. 1–2. Published August 30.
291. A British Columbia record for *Xenos peckii* Kirby. J. Entomol. Soc. B.C., 63:40. Published December 1.
292. Were they hydrophilids? (Coleoptera). Coleopt. Bull., 20(4):128. Published December 22.

1967

293. Georg Pronin (1898–1962). *J. Lepid. Soc.*, 21(1):74–76. Published February 21.
294. The cicadellid *Parabolocratius viridis* attended by the ant *Formica (F.) altipetens* (Homoptera: Cicadellidae and Hymenoptera: Formicidae). Wasmann *J. Biol.*, 24(2):279–280. Published in March.
295. Historical material. *In Proc. Pac. Coast Entomol. Soc.*, 306th meeting. *Pan-Pac. Entomol.*, 43(1):93. Published April 11.
296. [Book review]. The beetles of the Pacific Northwest. Part IV: Macroductyles, Palpicornes, and Heteromera. By Melville H. Hatch and collaborators. *Quart. Rev. Biol.*, 42(1):70. Issue for March.
297. (by H. B. Leech and Perez Simmons). Roy Seymour Wagner, 9 November 1895–15 October 1958. *Pan-Pac. Entomol.*, 43(2):134–136, 1 fig. Published July 14.
298. (by H. B. Leech and G. A. Sugden). *Solenobia triquetrella* Hübner, a flightless parthenogenetic moth, in British Columbia (Lepidoptera: Psychidae). *J. Entomol. Soc. B.C.*, 64:56–59, figs. 1–6. Published August 1.

1968

299. [Recent literature]. Facsimile editions of standard works.—A history of entomology, by E. O. Essig; A textbook of arthropod anatomy, by R. E. Snodgrass; Handbook of the mosquitoes of North America, by Robert Mathewson. *Pan-Pac. Entomol.* (1967), 43(4):273. Published February 28.
300. [Recent literature]. A classification of the large carpenter bees (Xylocopini) (Hymenoptera: Apoidea). By Paul D. Hurd, Jr., and J. S. Moure, C.M.F. *Pan-Pac. Entomol.*, 44(1):68. Published June 28.
301. [Announcement of the death of Father Edward F. Guedet, and the illness of Dr. F. X. Williams]. *In Proc. Pac. Coast Entomol. Soc.*, 313th meeting. *Pan-Pac. Entomol.*, 44(1):80. Published June 28.
302. Distribution of the cerambycid beetle *Ergates pauper* Linsley. *In Proc. Pac. Coast Entomol. Soc.*, 315th meeting. *Pan-Pac. Entomol.*, 44(1):86. Published June 28.
303. [Recent literature]. Comparative behaviour of bees of Onagraceae.—I. *Oenothera* bees of the Colorado Desert, II. *Oenothera* bees of the Great Basin, III. *Oenothera* bees of the Mohave Desert, California, by E. G. Linsley, J. W. MacSwain, and P. H. Raven; The genus *Baris* Germar in California (Coleoptera, Curculionidae), by Edward E. Gilbert. *Pan-Pac. Entomol.*, 44(1):86. Published June 28.
304. John Wagener Green—September 18 [sic!], 1889–June 20, 1968. The Casual Crier [Calif. Acad. Sci., Mimeograph], 2(1):2. Published July 1.

1969

305. John Wagener Green (September 25, 1889–June 20, 1968). *Entomol. News*, 79(10):284.

1970

306. *Copelatus glyphicus* (Say) and *Suphisellus bicolor* (Say), water beetles new to California and presumably introduced (Coleoptera: Dytiscidae and Noteridae). *Proc. Calif. Acad. Sci.*, (4)37(6):237–247, figs. 1–8. Published March 6.
307. [Slides and comments on a common lampyrid beetle and of Mr. Jack Balfour-Browne]. *In Proc. Pac. Coast Entomol. Soc.*, 324th meeting. *Pan-Pac. Entomol.*, 46(1):67. Published March 19.
308. [Gift of photographs to historical files by Mrs. Roxana Ferris]. *In Proc. Pac. Coast Entomol. Soc.*, 329th meeting. *Pan-Pac. Entomol.*, 46(1):71. Published March 19.
309. *Gnophaela latipennis* trapped by flowers of milkweed (Lepidoptera: Pericopidae). *In Proc. Pac. Coast Entomol. Soc.*, 329th meeting. *Pan-Pac. Entomol.*, 46(1):71–72. Published March 19.
310. [Two recently published books]. *In Proc. Pac. Coast Entomol. Soc.*, 330th meeting. *Pan-Pac. Entomol.*, 46(1):73–74. Published March 19.
311. Grooved entomology. *In Proc. Pac. Coast Entomol. Soc.*, 331st meeting. *Pan-Pac. Entomol.*, 46(1):76–77. Published March 19.
312. [Acquisition to historical files of over 1,000 glass lantern slides from Stanford University]. *In Proc. Pac. Coast Entomol. Soc.*, 331st meeting. *Pan-Pac. Entomol.*, 46(1):78. Published March 19.
313. The aegeriid *Ramosia fragariae* in a flight trap, and the interpretation thereof. *J. Lepid. Soc.*, 24(3):189. Published August 3.
314. Vasco M. Tanner—A lifetime with beetles. *Great Basin Natur.*, 30(4):213–215. Published December 31.

1971

315. Flight from the surface of water and skimming: beetles, with comments on bugs and flies (Coleoptera, Heteroptera, Diptera). *Wasmann J. Biol.*, (1970), 28(2):237–244. Published in January.
316. [Two new publications]. *In Proc. Pac. Coast Entomol. Soc.*, 333rd meeting. *Pan-Pac. Entomol.*, 47(1):72. Published April 13.
317. [Valuable material received for the society archives]. *In Proc. Pac. Coast Entomol. Soc.*, 337th meeting. *Pan-Pac. Entomol.*, 47(1):78. Published April 13.
318. [Book review]. The Kodiak Island refugium, its geology, flora, fauna and history. Thor N. V. Karlstrom and George E. Ball, editors. *Pan-Pac. Entomol.*, 47(1):83. Published April 13.

319. [Book review]. Directory of Coleoptera collections of North America (Canada through Panama). Written, compiled and edited by Ross H. Arnett, Jr., and G. Allan Samuelson, assisted by Gerard E. Flory, Edward C. Mignot, C. Dietrich Schaaf, Eric H. Smith. Pan-Pac. Entomol., 47(2):100. Published June 8.
320. [Book notice]. Gall midges of economic importance. Vol. VIII. Gall midges—Miscellaneous. By W. Nijveldt. Pan-Pac. Entomol., 47(2):116. Published June 8.
321. [Book notices]. [Four facsimile printings of standard works]. Pan-Pac. Entomol., 47(2):122. Published June 8.
322. [Book review]. An English-Classical dictionary for the use of taxonomists. Compiled by Robert S. Woods. Pan-Pac. Entomol., 47(2):126. Published June 8.
323. [Book review]. The comparative anatomy of the male genital tube in Coleoptera. 1969 reprint without change. By David Sharp and Frederick A. G. Muir. Pan-Pac. Entomol., 47(2):145. Published June 8.
324. [Discovery in books]. The natural history of Mendocino. By Jacques R. Helfer. Pac. Discovery, 24(4):32. Published June 17.
325. (by H. B. Leech and Ian Moore). Nearctic records of flights of *Cafius* and some related beetles at the seashore (Coleoptera: Staphylinidae and Hydrophilidae). Wasmann J. Biol., 29(1):65–70, fig. 1. Published June 23.
326. [Book notice]. Ecology, behavior, and adult anatomy of the *albida* group of the genus *Epicauta* (Coleoptera, Meloidae). By Richard B. Selander and Juan M. Mathieu. Pan-Pac. Entomol., 47(3):183. Published September 21.
327. [Book notice]. The natural history of Mendocino. By Jacques R. Helfer. Pan-Pac. Entomol., 47(3):214. Published September 21.
328. [Book notice]. The new field book of freshwater life. By Elsie B. Klots, drawings by Suzan Noquchi [sic!] Swain. Pan-Pac. Entomol., 47(3):219. Published September 21.
329. [Book notice]. Introduction to zoology. By Theodore H. Savory. Pan-Pac. Entomol., 47(3):242. Published September 21.
330. [Book notice]. The pocket encyclopaedia of plant galls in colour. By Arnold Darlington. Pan-Pac. Entomol., 47(3):243. Published September 21.
331. [Book notice]. Beetles. Written and illustrated by Wilfrid S. Bronson. Pan-Pac. Entomol., 47(3):243. Published September 21.
332. [Book notice]. The bionomics of blister beetles of the genus *Meloe* and a classification of the New World species. By John D. Pinto and Richard B. Selander. Pan-Pac. Entomol., 47(3):243. Published September 21.

333. [Book notice]. Practical entomology. A guide to collecting butterflies, moths and other insects. By R. E. L. Ford. Pan-Pac. Entomol., 47(3):244. Published September 21.
334. [Book notice]. The distributional history of the biota of the Southern Appalachians. Part I: Invertebrates. Edited by Perry C. Holt, with the assistance of Richard L. Hoffman and C. Willard Hart, Jr. Pan-Pac. Entomol., 47(3):244. Published September 21.

1972

335. F. C. Hottes, 1899–1970. In Proc. Pac. Coast Entomol. Soc., 338th meeting. Pan-Pac. Entomol., 48(1):67. Published May 5.
336. Death of E. R. Leach. In Proc. Pac. Coast Entomol. Soc., 341st meeting. Pan-Pac. Entomol., 48(1):74. Published May 5.
337. On the photocopying of entomological literature. In Proc. Pac. Coast Entomol. Soc., 342nd meeting. Pan-Pac. Entomol., 48(1):76. Published May 5.
338. The Australian sod fly *Altermetoponia rubriceps* (Macquart) in Marin County, California. In Proc. Pac. Coast Entomol. Soc., 342nd meeting. Pan-Pac. Entomol., 48(1):76–77. Published May 5.
339. [Items received for historical files in 1971]. In Proc. Pac. Coast Entomol. Soc., 343rd meeting. Pan-Pac. Entomol., 48(1):78.

1973

340. [Observations based on the Society's biographical forms]. In Proc. Pac. Coast Entomol. Soc., 349th meeting. Pan-Pac. Entomol., 49(1):92.
341. [Book review]. Monografia da tribo Ibidionini (Coleoptera, Cerambycinae). Partes I–VI. By Ubirajara R. Martins. Pan-Pac. Entomol., 49(2):101. Published July 11.
342. (by Marius S. Wasbauer and H. B. Leech). A biological note on two species of *Ageniella* from California (Hymenoptera: Pompilidae). Pan-Pac. Entomol., 49(2):182–183. Published July 11.
343. [Book review]. American entomologists. By Arnold Mallis. Pan-Pac. Entomol., 49(3):281–282. Published October 19.
344. [Book review]. Monographie der Familie Platypodidae Coleoptera. By Karl E. Schedl. Pan-Pac. Entomol., 49(3):282–283. Published October 19.

1975

345. [Book notice]. The biology of *Tribolium* with special emphasis on genetic aspects. By A. Sokoloff. Pan-Pac. Entomol., 51(1):48. Published June 12.

1977

346. [Apparent resistance of some tenebrionid beetles to cyanide]. *In Proc. Pac. Coast Entomol. Soc.*, 375th meeting. Pan-Pac. Entomol., 53(1):77.

Appendix B

New Taxa of Coleoptera Proposed by Hugh B. Leech

ADEPHAGA
Family Haliplidae

- Haliplus leechi* subsp. *carteri*, 1949, *Can. Entomol.*, (1948), 80(1-12):90. T-D: Prince Rupert, British Columbia, Canada, July 8, 1944 (N. Carter). *Can. Nat. Collect.*, Ent. Type No. 5777.
- Haliplus stagninus*, 1949, *Can. Entomol.*, (1948), 80(1-12):89-90, fig. 1. T-D: Kamloops, British Columbia, Canada, August 1, 1937 (Geo. J. Spencer). *Can. Nat. Collect.*, Ent. Type No. 5776.

Family Dytiscidae

- Agabus antennatus*, 1939, *Can. Entomol.*, 71(10):217-218. Remarks: *nom. nov.* for *Agabus clavatus* LeConte, 1859 (*nec clavatus* Latreille, 1804).
- Agabus browni*, 1938, *Can. Entomol.*, 70(6):126-127, fig. 4. T-D: Churchill, Manitoba, Canada, July 1, 1937 (W. J. Brown). *Can. Nat. Collect.*, Ent. Type No. 4356.
- Agabus colymbus*, 1938, *Can. Entomol.*, 70(6):125-126, figs. 1-2. T-D: Churchill, Manitoba, Canada, June 23, 1937 (W. J. Brown). *Can. Nat. Collect.*, Ent. Type No. 4357.
- Agabus hoppingi*, 1942, *Can. Entomol.*, 74(7):135, fig. 9. T-D: Gray Meadow, Lot 13, Tulare County, California, U.S.A., July 3, 1913 (Ralph Hopping). *Can. Nat. Collect.*, Ent. Type No. 5354.
- Agabus hudsonicus*, 1938, *Can. Entomol.*, 70(6):123-124, fig. 3. T-D: Churchill, Manitoba, Canada, July 7, 1937 (W. J. Brown). *Can. Nat. Collect.*, Ent. Type No. 4355.
- Agabus lutosus* subsp. *mimus*, 1942, *Can. Entomol.*, 74(7):132-133. T-D: Library lily pond on the campus of the University of British Columbia, Vancouver, British Columbia, Canada, January 28, 1931 (Hugh B. Leech). *Can. Nat. Collect.*, Ent. Type No. 5356.
- Agabus nectris*, 1942, *Can. Entomol.*, 74(7):133-135, fig. 5. T-D: a weedy ditch, Lumby, British Columbia, Canada, September 20, 1939 (Hugh B. Leech). *Can. Nat. Collect.*, Ent. Type No. 5355.
- Agabus pandurus*, 1942, *Can. Entomol.*, 74(7):128-129, fig. 1. T-D: Eel Riv-

- er, Pepperwood, Humboldt County, California, U.S.A., May 16, 1938 (Hugh B. Leech). Calif. Acad. Sci., Ent. Type No. 5316.
- Agabus pisobius*, 1950, Wasmann Collect., (1949), 7(6):246–248, fig. 4. T-D: ephemeral pond at an elevation of 2,000 feet, Creston, British Columbia, Canada, March 18, 1947 (Gordon Stace Smith). Calif. Acad. Sci., Ent. Type No. 6153.
- Agabus rumppi*, 1964, Coleopt. Bull., 18(3):79–80, 82, figs. 1–6. T-D: 2.7 miles east of Death Valley Junction, elevation 2,200 feet, Inyo County, California, U.S.A., May 18, 1958 (Norman L. Rumpff). Calif. Acad. Sci., Ent. Type No. 8815.
- Agabus solus*, 1950, Wasmann Collect., (1949), 7(6):248–250, fig. 2. T-D: latitude 61°58'N, longitude 141°03'W, elevation 3,200 feet, a pond near Beaver Creek, Alaska, U.S.A., August 27, 1944 (Goef B. Leech). Calif. Acad. Sci., Ent. Type No. 6155.
- Agabus vancouverensis*, 1937, Can. Entomol., 69(7):146–148, figs. 1–3. T-D: Hollyburn Ridge, 3,000 feet, Vancouver, British Columbia, Canada, June 28, 1931 (Hugh B. Leech). Can. Nat. Collect., Ent. Type No. 4218.
- Agabus vandykei*, 1942, Can. Entomol., 74(7):129–130. T-D: Yosemite, California, U.S.A., August, 1935 (Edward S. Ross). Calif. Acad. Sci., Ent. Type No. 5317.
- Agabus velox*, 1939, Can. Entomol., 71(10):219–220, figs. A–C. T-D: Churchill, Manitoba, Canada, August 18, 1937 (W. J. Brown). Can. Nat. Collect., Ent. Type No. 4545.
- Bidessus leachi*, 1948, Proc. Entomol. Soc. B.C., (1947), 44:11–12, figs. 1, 3. T-D: Mendocino County, California, U.S.A., May 29, 1922 (E. R. Leach). Calif. Acad. Sci., Ent. Type No. 5837.
- Bidessus youngi*, 1948, Proc. Calif. Acad. Sci., (4)24(11):392–393, fig. 12. T-D: lagoon, twenty miles north of Comondu, Baja California, Mexico, July 23, 1938 (A. E. Michelbacher and Edward S. Ross). Calif. Acad. Sci., Ent. Type No. 5463.
- Deronectes dolerosus*, 1945, Can. Entomol., 77(6):109–110, fig. 4A–B. T-D: Coalinga, California, U.S.A., March 5, 1937 (Hugh B. Leech). Calif. Acad. Sci., Ent. Type No. 5455.
- Deronectes spenceri*, 1945, Can. Entomol., 77(6):105–106, fig. 2A–C. T-D: 13 Mile Lake, Dog Creek Road, northwest of Clinton, British Columbia, Canada, October 11, 1943 (Hugh B. Leech and Cecil V. G. Morgan). Can. Nat. Collect., Ent. Type No. 5636.
- Deronectes titulus*, 1945, Can. Entomol., 77(6):106–108, fig. 3A–B. T-D: Green Valley, Brewster County, Texas, U.S.A., July, 1926 (J. Wagener Green). U.S. Nat. Mus., Ent. Type No. 76878.
- Hydroporus bidessoides*, 1941, Pan-Pac. Entomol., 17(3):130–132, figs. 7–9. T-D: Caspar, Mendocino County, California, U.S.A., December 16, 1939 (Jacques R. Helfer). Calif. Acad. Sci., Ent. Type No. 4978.

- Hydroporus laetus*, 1949, Can. Entomol., (1948), 80(1-12):90-92, figs. 2, 10-11. T-D: stream adjacent to Lake Hope, Vinton County, Ohio, U.S.A., August 30, 1945 (W. C. Stehr). Calif. Acad. Sci., Ent. Type No. 5940.
- Hydroporus rossi*, 1941, Pan-Pac. Entomol., 17(3):129-130, figs. 1-3. T-D: Pigmy Forest, Fort Bragg, Mendocino County, California, U.S.A., May 5, 1938 (Edward S. Ross). Calif. Acad. Sci., Ent. Type No. 4976.
- Hydroporus tademus*, 1950, Wasmann Collect., (1949), 7(6):243-245. T-D: Vernon, British Columbia, Canada, September 11, 1937 (Hugh B. Leech). Calif. Acad. Sci., Ent. Type No. 6151.
- Hygrotus diversipes*, 1966, Proc. Calif. Acad. Sci., (4)33(15):482-483, 485-486, figs. 2, 5-6. T-D: 8.5 miles northwest of Midwest, Dugout Creek, Natrona County, Wyoming, U.S.A., July 27, 1964 (Hugh B. Leech). Calif. Acad. Sci., Ent. Type No. 9048.
- Hygrotus fontinalis*, 1966, Proc. Calif. Acad. Sci., (4)33(15):490-495, figs. 4, 13. T-D: Travertine Hot Springs, 2 miles southeast of Bridgeport, altitude 6,700 feet, Mono County, California, U.S.A., August 11, 1962 (Hugh B. Leech). Calif. Acad. Sci., Ent. Type No. 9049.
- Laccophilus shermani*, 1944, Entomol. News, 55(1):4-6. T-D: Bear Canyon, Santa Catalina Mountains, Arizona, U.S.A., January 2, 1938 (Edwin C. Van Dyke). Can. Nat. Collect., Ent. Type No. 5553.
- Laccornis pacificus*, 1940, Can. Entomol., 72(6):123, 125, figs. 4, 6. T-D: stream, Salmon Arm, British Columbia, Canada, May 24, 1937 (Hugh B. Leech). Can. Nat. Collect., Ent. Type No. 5053.
- Matus ovatus*, 1941, Can. Entomol., 73(5):79, 81-82, figs. 1-2, 6-7. T-D: Lexington, Massachusetts, U.S.A., May 1, 1926 (Darlington; John George Gehring Collection). Mus. Comp. Zool., Ent. Type No. 25257.
- Matus ovatus* subsp. *blatchleyi*, 1941, Can. Entomol., 73(5):82. T-D: Brighton, Okeechobee, Florida, U.S.A., June 16, 1929 (Darlington; P. J. Darlington Collection). Mus. Comp. Zool., Ent. Type No. 25258.

Family Gyrinidae

- Gyrinus hoppingi*, 1938, Can. Entomol., 70(3):59-60. T-D: Tributary to Vance Creek, Trinity Valley, British Columbia, Canada, September 17, 1937 (Hugh B. Leech). Can. Nat. Collect., Ent. Type No. 4302.

POLYPHAGA: HYDROPHILOIDEA

Family Hydrophilidae

- Anacaena sternalis*, 1948, Proc. Calif. Acad. Sci., (4)24(11):447-448. T-D: San José del Cabo, Baja California, Mexico (from collection of Charles W. Leng). Calif. Acad. Sci., Ent. Type No. 8136.

- Berosus blechrus*, 1948, Wasmann Collect., 7(2):38–40. T-D: Fort Davis, Texas, U.S.A., March 29, 1946 (J. Wagener Green). Calif. Acad. Sci., Ent. Type No. 5911.
- Berosus (Berosus) dolerosus*, 1948, Proc. Calif. Acad. Sci., (4)24(11):433–434, fig. 13. T-D: in pool, Rosario, Baja California, Mexico, June 17, 1938 (A. E. Michelbacher and Edward S. Ross). Calif. Acad. Sci., Ent. Type No. 5465.
- Cymbiodyta dorsalis* subsp. *columbiana*, 1948, Wasmann Collect., 7(2):46. T-D: muddy spring alongside the Trans-Canada Highway, about a mile west of the side road to Walhachin, British Columbia, Canada, September 11, 1945 (Hugh B. Leech). Can. Nat. Collect., Ent. Type No. 5757.
- Cymbiodyta pacifica*, 1948, Wasmann Collect., 7(2):43–45. T-D: Langley, British Columbia, Canada, February 1, 1935 (Kenneth Graham). Can. Nat. Collect., Ent. Type No. 5756.
- Enochrus hamiltoni* subsp. *pyretus*, 1950, Wasmann Collect., (1949), 7(6):255. T-D: Bad Water, Death Valley, Inyo County, California, U.S.A., April 14, 1938 (John J. du Bois). Calif. Acad. Sci., Ent. Type No. 6173.
- Enochrus hamiltoni* subsp. *pacificus*, 1950, Wasmann Collect., (1949), 7(6):253–255. T-D: salt water lagoon at Huntington Beach, Orange County, California, U.S.A., July 19, 1943 (George P. Mackenzie). Calif. Acad. Sci., Ent. Type No. 6159.
- Enochrus horni*, 1950, Wasmann Collect., (1949), 7(6):250–252, fig. 6B. T-D: Norton's Pond, Salmon Arm, British Columbia, Canada, September 5, 1937 (Hugh B. Leech). Calif. Acad. Sci., Ent. Type No. 6157.
- Enochrus (Methydus) rossi*, 1948, Proc. Calif. Acad. Sci., (4)24(11):451–452. T-D: Coyote Cove, Concepcion Bay, Baja California, Mexico, July 24, 1938 (A. E. Michelbacher and Edward S. Ross). Calif. Acad. Sci., Ent. Type No. 5467.
- Hydrochus ouelleti*, 1948, Wasmann Collect., 7(2):36–38. T-D: St. Remi, Quebec, Canada, May 20, 1920 (J. Ouellet). Calif. Acad. Sci., Ent. Type No. 5909.
- Hydrochus setosus*, 1948, Wasmann Collect., 7(2):35–36. T-D: Chicago, Illinois, U.S.A., April 17, 1934 (D. Lowrie). Calif. Acad. Sci., Ent. Type No. 5908.
- Tropisternus (Pristoternus) orvus*, 1946, Can. Entomol., (1945), 77(10):183–184. T-D: Mendocino, California, U.S.A., August 16, 1940 (Jacques R. Helfer). Can. Nat. Collect., Ent. Type No. 5635.
- Tropisternus (Pristoternus) paredesi*, 1943, Rev. Soc. Mex. Hist. Nat., 4(1–2):17–20, figs. 1, 3, 5. T-D: en un charco en la cuenca del río, altura de 600 a 900 metros (2,000 a 3,000 pies), Sierra de Zápotan, Nayarit, Mexico,

noviembre de 1942 (Eugenio Paredes). Colección Nacional de Insectos Mexicanos de la Escuela N. de Ciencias Biológicas, Instituto Politécnico, México, D. F., México.

POLYPHAGA: STAPHYLINOIDEA

Family Staphylinidae

Coprophilus sexualis, 1939, Can. Entomol., 71(12):259–261, fig. 1. T-D: flying in University woodlot, Vancouver, British Columbia, Canada, March 20, 1939 (Anges M. Gwyn). Can. Nat. Collect., Ent. Type No. 4884.

Dacnochilus fresnoensis, 1939, Can. Entomol., 71(12):261, fig. 3. T-D: Fresno, California, U.S.A., June 5, 1931 (R. S. Wagner). Calif. Acad. Sci., Ent. Type No. 4930.

Trigonodemus fasciatus, 1939, Can. Entomol., 71(12):258–259. T-D: Vancouver, British Columbia, Canada, March 26, 1933 (Hugh B. Leech). Can. Nat. Collect., Ent. Type No. 4883.

POLYPHAGA: DASCILLOIDEA

Family Helodidae

Sarabandus, 1955, Pan-Pac. Entomol., 31(1):34. T-S: *Cyphon robustus* LeConte, 1875, by orig. des.

POLYPHAGA: CHRYSOMELOIDEA

Family Cerambycidae

Centrodera autumnata, 1963, Proc. Calif. Acad. Sci., (4)32(7):173–178, figs. 8–11, 13, 15–16, 18. T-D: Mill Valley, Marin County, California, U.S.A., August 16, 1949 (Hugh B. Leech). Calif. Acad. Sci., Ent. Type No. 8526.

Centrodera dayi, 1963, Proc. Calif. Acad. Sci., (4)32(7):178–181, 183–184, figs. 4, 7, 9–11, 13–15, 17. T-D: Scott River at Klamath River, Siskiyou County, California, U.S.A., August 1, 1949 (W. C. Day). Calif. Acad. Sci., Ent. Type No. 8527.

Appendix C

Some Taxa Named in Honor of Hugh B. Leech

CLASS ARACHNIDA

Order Araneae

Family Gnaphosidae

Cesonia leechi Platnick and Shadab, 1980 (Mexico).

CLASS INSECTA

Order Diptera

Family Japygidae

Evalljapyx leechi Smith, 1960 (California).

Order Ephemeroptera

Family Baetidae

Baetis leechi Day, 1954 (California).

Order Hemiptera

Family Reduviidae

Stenolemopsis leechi Wygodzinsky, 1966 (Mexico).

Order Coleoptera

Family Bostrychidae

Dendrobiella leechi Vrydagh, 1960 (Mexico).

Micrapate leechi Vrydagh, 1960 (Mexico).

Family Buprestidae

Anthaxia leechi Cobos, 1958 (California).

Chrysobothris leechi Barr, 1974 (California).

Conognatha leechi Cobos, 1959 (Chile).

Family Cantharidae

Chauliognathus limbicollis subsp. *leechi* Wittmer, 1967 (Mexico).

Discodon leechi Wittmer, 1959 (Ecuador).

Malthodes leechi Fender, 1951 (California).

Troglomethes leechi Wittmer, 1970 (California).

Tylocerus leechi Wittmer, 1953 (Philippine Islands).

Family Carabidae

Pericompsus leechi Erwin, 1974 (Mexico).

Trechisibus leechi Uéno, 1972 (Peru).

Family Cerambycidae

Callidium leechi Linsley and Chemsak, 1963 (California).

Canonura leechi Dillon, 1956 (Arizona).

Derobrachus leechi Chemsak and Linsley, 1977 (California).

Juninia leechi Lane, 1966 (Peru).

Neocompsa leechi Martins, 1970 (Peru).

Family Chrysomelidae

Euryscopa leechi Monrós, 1952 (Texas).

Phyllobrotica leechi Blake, 1956 (California).

Timarcha cerdo subsp. *leechi* Jolivet, 1948 (Oregon).

Family Coccinellidae

Hyperaspis leechi Miyatake, 1961 (China).

Toxotoma leechi Gordon, 1975 (Peru).

Family Curculionidae

- Alcidodes leechi* Haaf, 1962 (Philippine Islands).
Cryptolepidus leechi Ting, 1940 (California).
Grypидius leechi Cawthra, 1957 (Colorado).
Listronotus leechi Sleeper, 1955 (British Columbia).

Family Dytiscidae

- Hydaticus leechi* Satô, 1961 (Borneo).

Family Eucnemidae

- Fornax leechi* Cobos, 1965 (Chile).

Family Gyrinidae

- Macrogyrus leechi* Mouchamps, 1951 (Irian Barat).

Family Haliplidae

- Haliplus leechi* Wallis, 1933 (British Columbia).

Family Hydraenidae

- Ochthebius leechi* Wood and Perkins, 1978 (California).

Family Hydrophilidae

- Chaetarhria leechi* Miller, 1974 (California).
Cymbiodyta leechi Miller, 1964 (Washington).
Elophorus leechi McCorkle, 1965 (British Columbia).
Epimetopus leechi Rocha, 1969 (Brazil).
Hydrochara leechi Smetana, 1980 (New Mexico).
Paracymus leechi Wooldridge, 1969 (Mexico).

Family Lycidae

- Plateros leechi* Nakane, 1971 (Formosa).
Xylobanus leechi Nakane, 1971 (Formosa).

Family Malachiidae

- Attalus leechi* Marshall, 1957 (Arizona).

Family Monommidae

- Hyporhagus leechi* Freude, 1955 (Mexico).

Family Nitidulidae

- Thalycra leechi* Howden, 1961 (British Columbia).

Family Scarabaeidae

- Acoma leechi* Cazier, 1953 (Mexico).
Glaphyrocanthon viridis subsp. *leechi* Halffter and Martinez, 1964 (Mexico).
Isonychus leechi Frey, 1969 (Colombia).
Liogenys leechi Frey, 1967 (Peru).
Onthopagus leechi Frey, 1959 (New Zealand).

Family Staphylinidae

- Acrolocha leechi* Hatch, 1957 (British Columbia).
Acylophorus leechi Smetana, 1971 (Missouri).
Ecbletus leechi Moore, 1965 (California).
Olophrum leechi Hatch, 1957 (British Columbia).

Philonthus leechensis Hatch, 1957 (British Columbia).

Quedius leechi Smetana, 1971 (Arizona).

Stenus leechi Puthz, 1974 (Mexico).

Family Stylopidae

Stylops leechi Bohart, 1941 (British Columbia).

Family Tenebrionidae

Edrotes leechi Doyen, 1968 (Utah).

Eleodes leechi Tanner, 1961 (Utah-Colorado state line).

Gyriosomus leechi Kulzer, 1954 (Chile).

Heliofugus leechi Freude, 1960 (Chile).

Hemasodes leechi Freude, 1967 (Brazil).

Nyctopetus leechi Freude, 1959 (Chile).

Philorea leechi Kulzer, 1956 (Peru).

Family Throscidae

Throscus leechi Cobos, 1967 (Australia).

Order Trichoptera

Family Lepidostomatidae

Lepidostoma leechi Denning, 1962 (Mexico).

Order Diptera

Family Asilidae

Metapogon leechi Wilcox, 1964 (Mexico).

Family Bombyliidae

Eclimus leechi Hall, 1954 (California).

Family Ceratopogonidae

Culicoides leechi Wirth, 1977 (California).

Family Platypezidae

Agathomyia leechi Kessel, 1961 (California).

Family Scatopsidae

Colobostema leechi Cook, 1978 (California).

Family Scenopinidae

Pseudatrichia leechi Kelsey, 1969 (California).

Family Tabanidae

Esenbeckia leechi Philip, 1978 (Mexico).

Family Tachinidae

Erycia leechi Curran, 1932 (British Columbia).

Family Tipulidae

Gonomyia leechi Alexander, 1964 (California).

Tipula leechi Alexander, 1938 (British Columbia).

Order Hymenoptera

Family Andrenidae

Perdita leechi Timberlake, 1968 (Mexico).

Family Braconidae

Ecpylus leechi Marsh, 1965 (California).

Microgaster leechi Walley, 1935 (British Columbia).

Family Ichneumonidae

Cubocephalus molaris subsp. *leechi* Townes and Gupta, 1962 (British Columbia).

Family Pompilidae

Dipogon leechi Wasbauer, 1960 (California).

Family Tenthredinidae

Pristophora leechi Wong and Ross, 1960 (British Columbia).

Family Tiphiidae

Krombeinia leechi Allen and Krombein, 1964 (Mexico).