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Paul David Hurd Papers, 1938-1982 and undated

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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu
Title:	Paul David Hurd Papers
Identifier:	Record Unit 7311
Date:	1938-1982 and undated
Extent:	30.30 cu. ft. (60 document boxes) (2 oversize folders)
Creator::	Hurd, Paul David, 1921-
Language:	English

Administrative Information

Oversize

This collection contains oversize material.

Preferred Citation

Smithsonian Institution Archives, Record Unit 7311, Paul David Hurd Papers

Historical Note

Paul D. Hurd, Jr. (1921-1982), entomologist, educator, and museum curator, was an authority on the taxonomy and biology of bees. He developed an interest in natural history, especially birds, after his family moved to the Mojave Desert region of California. His first published paper, a report on a bird census in Newport Upper Bay, California, appeared in *Audubon Magazine* in 1941. In 1940, Hurd enrolled at the University of California, Berkeley, to study entomology. His undergraduate work was interrupted between 1942 and 1945 while he served in the United States Navy as a Chief Pharmacist's Mate. He resumed his studies at Berkeley in 1946 and received the B.S. degree in 1947; the M.S. degree in 1948; and his Ph.D. degree in 1950.

Hurd remained at Berkeley to begin his professional career, receiving appointment as Senior Museum Entomologist in 1950. As his career advanced Hurd was given teaching, as well as research responsibilities. By 1965, he had attained the rank of Professor of Entomology and Entomologist in the California Agricultural Experiment Station. Hurd's duties at Berkeley included responsibility for the California Insect Survey where he directed numerous field trips and contributed to the development of the University's collection of native insects. During 1967 and 1968 Hurd took leave of absence from the University to join the National Science Foundation as Associate Program Director in the Division of Biological and Medical Sciences. In 1970, Hurd accepted appointment as Curator in the Department of Entomology, National Museum of Natural History (NMNH). His service at NMNH included a term as Chairman of the Department of Entomology from 1971 to 1976. He was appointed Senior Scientist in 1980.

Hurd's research interests were broad, and he published on several of the families of the order Hymenoptera, including Mutillidae, Pompilidae, Anthophoridae, Megachilidae, and Halictidae. He also published papers on certain families of the orders Coleoptera and Diptera. However, most of his research was devoted to the bees of the superfamily Apoidea. Hurd published over twenty papers and books on the carpenter bees (Xylocopinae) including *A Classification of the Large Carpenter Bees*, co-authored with Jesus S. Moure. Another major research interest was the pollination of plants by insects. He conducted extensive studies on the bee pollinators of the squashes, gourds, and other plants of the genus *Cucurbita*. He also studied the pollination of the creosote bush (*Larrea tridentata*). Hurd's research at the National Museum of Natural History was highlighted by his duties as co-editor of the revised *Catalog of Hymenoptera in America North of Mexico* published in 1979. While most of Hurd's field work was concentrated in California and the southwestern United States, he also conducted studies in Alaska, Mexico, South America, and Central America.

Hurd was active within the entomological profession, and he served several organizations in an appointed or elected capacity. For several years he was editor of the *Pan-Pacific Entomologist*, journal of the Pacific Coast Entomological Society. As a member of the Entomological Society of America, Hurd worked on the Governing Board and served as Chairman of the Advisory Committee for Systematics Resources in Entomology. He was also President of the Association for Tropical Biology, 1969-1970; Section Editor (Hymenoptera) for *Biological Abstracts*; and a fellow of the American Association for the Advancement of Science and of the California Academy of Sciences.

For additional biographical information on Hurd see Karl V. Krombein and E. Gorton Linsley, "Paul David Hurd, Jr., 1921-1982," *Pan-Pacific Entomologist*, October 1982, vol. 58, no. 4, pp. 262-277.

Chronology

1921	Born in Chicago, Illinois, April 2
1941	Published first paper on California bird census in <i>Audubon Magazine</i>
1942-1945	Service in the United States Navy in the South Pacific
1947	Bachelor of Science, University of California, Berkeley
1948	Master of Science, University of California, Berkeley
1950	Ph. D., University of California, Berkeley
1950-1952	Senior Museum Entomologist, University of California, Berkeley
1950-1963	Editor, <i>Pan-Pacific Entomologist</i>
1952-1953	Field work analyzing soil invertebrates at Point Barrow, Alaska
1952-1954	Junior Entomologist, University of California, Berkeley
1954-1959	Lecturer in Entomology and Assistant Entomologist, University of California, Berkeley
1956	Field work investigating fossiliferous amber in Chiapas, Mexico
1959-1960	Fulbright Commission/Guggenheim Foundation Research Scholar and Fellow, Universidade da Parana, Curitiba, Brazil
1959-1960	Field Work in Central and South America
1959-1965	Lecturer in Entomology and Associate Entomologist, University of California, Berkeley
1963	Field work in Costa Rica and Panama

1963	<i>A Classification of the Large Carpenter Bees</i> (with J. S. Moure). University of California Publication Entomol. : 29
1964	Trip to study carpenter bee type specimens in European museums
1965	Field work in Venezuela and Colombia
1965-1970	Professor of Entomology and Entomologist, University of California, Berkeley
1967	Field work in Argentina and Brazil
1967-1968	Associate Program Director, Division of Biological and Medical Sciences, National Science Foundation
1969-1970	President, Association for Tropical Biology
1970	<i>A Classification of the Squash and Gourd Bees Peponapis and Xenoglossa</i> (with E. G. Linsley). University of California Publication Entomol. : 62
1970-1971	Curator, Division of Hemiptera and Hymenoptera, Department of Entomology, National Museum of Natural History (NMNH)
1971-1973	International Biological Program/National Science Foundation <i>Larrea</i> Bee Project
1971-1976	Chairman, Department of Entomology, NMNH
1972-1975	Member of Governing Board, Entomological Society of America (ESA)
1973-1975	Chairman, Advisory Committee for Systematics Resources in Entomology (ESA)
1975	<i>The Principal Larrea Bees of the Southwestern United States</i> (with E. G. Linsley) Smithsonian Contributions to Zoology : 193
1976-1980	Curator, Department of Entomology, NMNH
1979	<i>Catalog of Hymenoptera in America North of Mexico</i> (co-editor and author of Apoidea section) Smithsonian Institution Press
1980	<i>Principal Sunflower Bees of North America with emphasis on the Southwestern United States</i> (with W. E. LaBerge and E. G. Linsley) Smithsonian Contributions to Zoology : 310
1980-1982	Senior Scientist, Department of Entomology, NMNH
1982	Death, March 12

Descriptive Entry

These papers document the professional career and to a lesser extent the personal life of Paul D. Hurd, Jr., between 1938 and 1982. Particularly well represented in the papers is material concerning his research on the insect order Hymenoptera; his teaching and research career at the University of California, Berkeley; his administrative duties at the National Science Foundation; his curatorial and administrative activities at the National Museum of Natural History (NMNH); field work and collecting trips; and his participation in professional organizations.

A large part of the collection consists of correspondence written and received by Hurd between 1942 and 1982. The correspondence illustrates all aspects of his career and includes letters with domestic

and foreign entomologists; colleagues at the University of California, Berkeley, the National Science Foundation, and the National Museum of Natural History; staff of professional organizations, journals, and publishers; and personal friends.

Papers documenting Hurd's research on the Hymenoptera include correspondence, field notes, research notes, manuscripts, specimen lists, and photographs relating to his work on the carpenter bees. Similar records illustrate his study of the squash and gourd bees, and his research project on the bee pollinators of the creosote bush. Thoroughly documented is his work as co-editor and author of the revised *Catalog of Hymenoptera in America North of Mexico*. Also included is a research file primarily concerning the Hymenoptera.

The collection also includes field notes, correspondence, and related materials documenting field work and collecting trips in the western and southwestern United States, Alaska, and Mexico; desk diaries maintained by Hurd during his tenure as Chairman, Department of Entomology, NMNH; and correspondence, class notes, lecture notes, copies of examinations, and related materials documenting his student days and teaching career at the University of California, Berkeley.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Entomologists
- Entomology

Types of Materials:

- Black-and-white photographs
- Field notes
- Manuscripts

Names:

- California Agricultural Experiment Station
- Entomological Society of America
- Hurd, Paul David, 1921-
- National Museum of Natural History (U.S.). Department of Entomology
- National Science Foundation (U.S.)
- Pacific Coast Entomological Society
- University of California, Berkeley

Container Listing

Series 1: General Correspondence, 1942-1982, and undated

This series consists of incoming and outgoing correspondence relating to all aspects of Hurd's career. Especially well documented is his research on Hymenoptera; his teaching, administrative, and curatorial careers; and his participation in professional organizations. A few photographs are found in the correspondence and are noted in the folder listing.

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Box 13 of 60 Folder 3 Hurd, Paul D., Jr. Catalogue of his high school insect collection.

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- Box 16 of 60 Folder 5 Krombein, Karl V. Photographs. Includes portraits, 1969, 1975; photographs taken during field work in Kenya, 1968; and a photograph taken at the Washington Biologists' Field Club's shad bake, 1970.
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Box 20 of 60 Folder 2 Michener, Charles Duncan. Specimen lists and notes.

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Series 2: Correspondence Relating to Carpenter Bees Research, 1951-1977

This series consists of incoming and outgoing correspondence documenting Hurd's research on carpenter bees (*Xylocopinae*). Most of the correspondence concerns the identification, acquisition, and loan of specimens. Correspondents include domestic and foreign entomologists, museum curators, and university professors. Much of the correspondence relates to Hurd's joint research with Jesus S. Moure which culminated in the publication of *A Classification of the Large Carpenter Bees* in 1963.

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Series 3: Carpenter Bees Research File, 1955-1981, and undated

This series consists of materials documenting Hurd's research on carpenter bees (Xylocopinae). Included are field notes of Hurd and others; research notes; bibliographical records; specimen lists; photographs and color slides of carpenter bees, habitats, and of Hurd on field trips; and correspondence concerning and annotated manuscripts of his publications on carpenter bees. Also included are files relating to his research supported by grants from the Guggenheim Foundation, the Fulbright Commission, and the National Science Foundation.

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[Digital Content: Arnold, Stevan J. journal and field notes kept on a field trip to collect carpenter bees in Mexico and Costa Rica, June-September 1965. \(Folder 1\)](#)
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- Box 35 of 60 Folder 4 Brazilian carpenter bees. Computer listing. See also box 36, folder 5.
- Box 35 of 60 Folder 5 Character analysis. Females.
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- Box 35 of 60 Folder 7 Compilation of published records on carpenter bees
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- Box 36 of 60 Folders 1-2 European carpenter bees. Notes on specimens in European museums, 1964.
- Box 36 of 60 Folder 3 Field notes on *xylocopa* and *osmia* of California, 1969-1970
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- Box 36 of 60 Folder 4 Galapagos Islands carpenter bees. Notes and photographs.
- Box 36 of 60 Folder 5 Guggenheim - Fulbright Grant. Brazilian carpenter bee research, 1958-1961.
- Box 36 of 60 Folder 6 International Commission on Zoological Nomenclature. *Xylocopa* and *lestes* proposals, 1958-1962.
- Box 36 of 60 Folder 7 Janzen, Daniel H. Notes, photographs, and color slides, 1964.

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- Box 37 of 60 Folder 1 Keys to subgenera
- Box 37 of 60 Folder 2 Manuscript. "A New Subspecies of *Xylocopa tabaniformis* Smith from Mexico," by Hurd and Lois B. O'Brien, 1963.
- Box 37 of 60 Folder 3 Manuscript. "A New World Subgenus of Bamboo Nesting Carpenter Bees Belonging to the Genus *Xylocopa* Latreille," by Hurd and Jesus S. Moure, 1960.
- Box 37 of 60 Folder 4 Manuscript. "An Annotated Catalog of the Carpenter Bees (Genus *Xylocopa* Latreille) of the Western Hemisphere (Hymenoptera : Anthophoridae)," 1978.
- Box 37 of 60 Folder 5 Manuscript. "Bamboo Nesting Carpenter Bees (Genus *Xylocopa* Latreille) of the subgenus *Stenoxycopa*," 1978. Includes correspondence with George W. Byers.
- Box 37 of 60 Folder 6 Manuscript. "Carpenter Bees of California," 1955.
- Box 37 of 60 Folder 7 Manuscript. "The Carpenter Bees of the Eastern Pacific Ocean Islands," 1958.
- Box 37 of 60 Folder 8 Manuscript. "Carpenter Bees of the Subgenus *Notoxycopa*," by Hurd and Lois B. O'Brien, 1964.
- Box 37 of 60 Folder 9 Manuscript. "Entomophagous and other Insect Inhabitants found in the Nests of Carpenter Bees (Tribe Xylocopini)," 1961.
- Box 37 of 60 Folder 10 Manuscript. "In-nest Behavior of the Carpenter Bee, *Xylocopa pubescens* Spinola," by Hurd, Dan Gerling, and Abraham Hefetz, 1981. Includes correspondence with Dan Gerling and Abraham Hefetz.
- Box 37 of 60 Folder 11 Manuscript. "Notes and Observations on the Nesting Habits of Some New World Carpenter Bees," 1958. Includes correspondence of Roland F. Hussey.

Box 38

- Box 38 of 60 Folder 1 Manuscript. "Some Notes on Sapygid Parasitism in the Nests of Carpenter Bees belonging to the Genus *Xylocopa* Latreille," by Hurd and Jesus S. Moure, 1961.
- Box 38 of 60 Folder 2 Manuscript. "Some Problems of Species Formation in the Carpenter Bee Genus *Xylocopa* Latreille," by Hurd and J. S. Moure, 1959.
- Box 38 of 60 Folder 3 Manuscript. "Systematics of the Carpenter Bee Types (Genus *Xylocopa* Latreille) contained chiefly in the Collections of the Zoologisches Museum der Humboldt-Universitat zu Berlin," unpublished, by Hurd and Eberhard Konigsmann.

- Box 38 of 60 Folder 4 Manuscript. "Systematics of the Carpenter Bee Types (Genus *Xylocopa* Latreille) contained in the Collections of the Museo Argentino De Ciencias Naturales 'Bernardino Rivadaria,' Buenos Aires," by Hurd and Jesus S. Moure, 1961.
- Box 38 of 60 Folders 5-6 Master computer list of carpenter bees
- Box 38 of 60 Folder 7 Master computer list of Mexican carpenter bees
- Box 38 of 60 Folder 8 Names currently applied in new world *Xylocopa*
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- Box 39 of 60 Folder 1 National Science Foundation research grant. "A biosystematic study of the large carpenter bees (*xylocopini*) of the world," 1961-1964.
- Box 39 of 60 Folder 2 Photographs. Includes carpenter bees, habitats, and three photographs of Hurd on field trips.
- Box 39 of 60 Folder 3 *Proxylocopa*. Includes field notes recorded by Hurd on a collecting trip to Israel, 1978.
- Box 39 of 60 Folder 4 Sage, Richard D. Field notes, Costa Rica and Mexico, 1965.
[Digital Content: Richard Sage's Field Notes from Costa Rica and Mexico in July to September, 1965.](#)
- Box 39 of 60 Folder 5 Scoring of characteristics of *Xylocopa*
- Box 39 of 60 Folder 6 South American carpenter bees
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Series 4: Squash and Gourd Bees Research File, 1961-1980, and undated

This series contains materials documenting Hurd's research on the squash and gourd bees and their pollination of the host plants of the genus *Cucurbita*. Included is correspondence; field notes recorded by Hurd during field work in South America, Mexico, Arizona and California; copies of field notes of other entomologists; annotated manuscripts of Hurd's publications; project proposals and reports; photographs and color slides of squash and gourd bees, habitats, and field trips; research notes of Hurd and other entomologists; and specimen lists.

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- Box 42 of 60 Folder 1 Associates of Tropical Biogeography. *Cucurbita-Peponapis* proposal, 1966.
- Box 42 of 60 Folder 2 California Agricultural Experiment Station Project #2046. "Insect pollinators of squashes, gourds, pumpkins, cucumbers, melons, and other cucurbits," by Hurd, Earle Gorton Linsley, Abraham Ezra Michelbacher, and Ray Fred Smith, 1962-1970.
- Box 42 of 60 Folder 3 California Agricultural Extension Service Pollination Studies, 1964-1977
- Box 42 of 60 Folder 4 Conference on the Biology and Chemistry of the Cucurbitaceae, Cornell University, August 1980
- Box 42 of 60 Folder 5 Field notes, Arizona, 1962
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- Box 42 of 60 Folder 6 Field notes, California, 1962
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- Box 42 of 60 Folder 7 Field notes, Yucatan Peninsula, Mexico, 1962
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- Box 42 of 60 Folder 8 Field notes (with E. Gorton Linsley), Nogales, Mexico, 1962
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- Box 42 of 60 Folder 9 Field notes, La Jolla, California, 1963
[Digital Content: Field notes, La Jolla, California, 1963](#)
- Box 42 of 60 Folders 10-11 Field work, South America, 1967. Includes field notes, correspondence, itineraries, and expense accounts.
[Digital Content: Field work, South America, 1967 - Contains two notepads with notes on squash bee observations from 24 March to 2 April 1967 and 8-12 April 1967 in Córdoba \(Argentina\), Tucumán \(Argentina\), Curitiba \(Brazil\), Sao Paulo \(Brazil\), and Rio de Janeiro \(Brazil\). Also includes sketches and research notes.](#)
[Digital Content: Field work, South America, 1967 - Contains correspondence, itineraries, expense accounts, and receipts related to the squash and gourd bee South America trip from 1967.](#)
[Digital Content: Field work, South America, 1967 - Field notes of botanical specimens collected by P. C. Hutchinson are transcriptions or copies of](#)

[original field notes from 4 February to 9 September 1964 in the Andes, Peru. Collector numbers 5604-6185 are included. Localities include but are not limited to Rio Chamaya, Pucara, and Maranon River.](#)

- Box 42 of 60 Folder 12 Hutchinson, Paul Clifford. Copy of field notes, Peru, 1964.
- Box 42 of 60 Folder 13 Linsley, Earle Gorton. Copy of field notes, Southwest Research Station, Arizona, July 1961.
[Digital Content: Linsley, Earle Gorton, copy of field notes, Southwest Research Station, Arizona, July 1961](#)
- Box 43
- Box 43 of 60 Folders 1-2 Manuscript. "A Classification of the Squash and Gourd Bees (*Peponapis* and *Xenoglossa*)," by Hurd and Earle Gorton Linsley, 1970.
- Box 43 of 60 Folder 3 Manuscript. "A New Subgenus and Species of Matinal *Andrena* from the Flowers of *Sicyos* (cucurbitaceae) in Mexico," by Hurd and Wallace E. LaBerge, 1965.
- Box 43 of 60 Folders 4-5 Manuscript. "Ecology of the Squash and Gourd Bee, *Peponapis pruinosa*, on Cultivated Cucurbits in California," by Hurd, Earle Gorton Linsley, and Abraham Ezra Michelbacher, 1974.
- Box 43 of 60 Folder 6 Manuscript. "Experimental Introduction of Squash and Gourd Bees (*Peponapis* and *Xenoglossa*) for the Purpose of Improving the Yields of Squashes, Gourds, and Pumpkins," by Hurd, Earle Gorton Linsley, and Abraham Ezra Michelbacher, 1971.
- Box 43 of 60 Folder 7 Manuscript. "Feasibility of Introducing Squash Bees of the Genera *Peponapis* and *Xenoglossa* into the Old World," by Hurd, Earle Gorton Linsley, and Abraham Ezra Michelbacher, 1968.
- Box 43 of 60 Folder 8 Manuscript. "Late Season Foraging Activities of *Xenoglossa gabbii crawfordi* Cockerell," by Hurd and Abraham Ezra Michelbacher, 1968.
- Box 43 of 60 Folder 9 Manuscript. "The Mexican Squash and Gourd Bees of the Genus *Peponapis* Robertson," by Hurd and Earle Gorton Linsley, 1966.
- Box 43 of 60 Folder 10 Manuscript. "Notes on the Ecology and Distribution of the Squash Bee *Xenoglossa gabbii crawfordi* Cockerell," by Hurd and Abraham Ezra Michelbacher, 1968.
- Box 43 of 60 Folder 11 Manuscript. "Pollination of Squashes, Gourds, and Pumpkins," by Hurd, Abraham Ezra Michelbacher, and Ray Fred Smith, 1964.
- Box 43 of 60 Folder 12 Manuscript. "South American Squash and Gourd Bees of the Genus *Peponapis*," by Hurd and Earle Gorton Linsley, 1967.

Box 44

- Box 44 of 60 Folder 1 Manuscript. "Squash and Gourd Bees (*Peponapis*; *Xenoglossa*) and the Origin of the Cultivated *Cucurbita*," by Hurd, Earle Gorton Linsley, and Thomas W. Whitaker, 1970.
- Box 44 of 60 Folder 2 Manuscript. "Squash and Gourd Bees of the Genus *Xenoglossa*," by Hurd and Earle Gorton Linsley, 1967.
- Box 44 of 60 Folder 3 Manuscript. "Systematics of the Squash and Gourd Bees (Genera *Peponapis* Robertson and *Xenoglossa* Smith) inhabiting America North of Mexico," by Hurd and Earle Gorton Linsley, 1964.
- Box 44 of 60 Folder 4 Michelbacher, Abraham Ezra. Correspondence, manuscripts, and related materials concerning a paper on squash bees presented by Michelbacher at the 6th meeting of the Entomological Society of Mexico, October 1967.
- Box 44 of 60 Folder 5 Michelbacher, Abraham Ezra. Correspondence, manuscripts, and a proposal relating to his National Science Foundation project, "Insect Pollinators of the Cucurbitaceae," 1963-1970.
- Box 44 of 60 Folders 6-7 Photographs. Includes photographs of squash and gourd bees, habitat, and field trips.

Box 45

- Box 45 of 60 Folder 1 Research Proposal. "Origin, Evolution, and Domestication of Cultivated Plants Requiring Insect Pollination for the Successful Production of Food and Fiber," by Hurd, Clifford Evans, and Edward S. Ayensu, 1970-1971.
- Box 45 of 60 Folder 2 Smith, Ray Fred. Copy of field notes, Mexico, 1963.
- Box 45 of 60 Folder 3 Smith, Ray Fred. Copy of field notes, Colorado, 1965.
- Box 45 of 60 Folder 4 Smith, Ray Fred. Notes on squash and gourd bee habitat.
- Box 45 of 60 Folders 5-7 Smithsonian Research Foundation (SRF) Project. "The Biogeography and Ecology of Squash and Gourd Bees in the Southwestern United States and adjacent Mexico, 1972-1976." Includes project proposal and correspondence with the SRF, Earle Gorton Linsley, and Abraham Ezra Michelbacher.
- Box 45 of 60 Folder 8 Squash bees. Generic classification.
- Box 45 of 60 Folder 9 Squash bees. Loans.
- Box 45 of 60 Folder 10 Squash bees. Index to distribution numbers.
- Box 45 of 60 Folder 11 Squash bees. Pollination records.
- Box 45 of 60 Folder 12 Squash bees. Taxonomy.

Box 45 of 60 Folder 13 Squash bees. Type specimens in European museums, 1964.

Box 46

Box 46 of 60 Folder 1 Squash and gourd bees. Geographical distribution.

Box 46 of 60 Folder 2 Squash and gourd bees. Notes on NMNH collection by Earle Gorton
Linsley, 1962.

Box 46 of 60 Folder 3 Squash and gourd bees. Miscellaneous notes.

Box 46 of 60 Folder 4 Thorpe, Robbin W. and Schlissing. Field notes, 35mm color slides,
and planting records taken at La Jolla, California, August 1962.

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Series 5: *Larrea* Bees Project File, 1968-1975, and undated

During the late 1960's and early 1970's, Hurd conducted studies on the insect pollinators of the creosote bush (*Larrea tridentata*) as a part of the Desert Scrub Project, Structure of Ecosystems Integrated Research Program of the International Biological Program. The project was supported by funds from the National Science Foundation. This series documents Hurd's participation on the project and includes correspondence; project proposals and reports; manuscripts; and notes, lists, and related materials.

Box 46

Box 46 of 60 Folders 5-6 Correspondence, 1968-1974

Box 46 of 60 Folders 7-8 Project proposal, undated

Box 47

Box 47 of 60 Folders 1-3 International Biological Program reports, 1971-1974

Box 47 of 60 Folder 4 Manuscript. "The Principal *Larrea* Bees of the Southwestern United States," by Hurd and Earle Gorton Linsley, 1974.

Box 47 of 60 Folder 5 Manuscript. "Some Insects other than Bees associated with *Larrea tridentata* in the Southwestern United States," by Hurd and Earle Gorton Linsley, 1975.

Box 47 of 60 Folders 6-8 Notes, lists, and related research materials

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Series 6: *Catalog of Hymenoptera in America North of Mexico File*, 1971-1979, and undated

Hurd served as co-editor of the revised edition of the *Catalog of Hymenoptera in America North of Mexico*, which was published in 1979. He also authored the section on the bees of the superfamily Apoidea. This series documents these activities and includes correspondence and memoranda; a photograph of the *Catalog* staff; publications describing the *Catalog*; reviews of the *Catalog*; and drafts, notes, and related materials concerning his research on the superfamily Apoidea.

Box 48

Box 48 of 60	Folder 1 Correspondence and memoranda, 1971-1979
Box 48 of 60	Folder 2 Photograph of the <i>Catalog</i> staff
Box 48 of 60	Folder 3 Publications describing the <i>Catalog</i>
Box 48 of 60	Folder 4 Reviews of the <i>Catalog</i>
Box 48 of 60	Folder 5 Introduction
Box 48 of 60	Folder 6 Superfamily Apoidea
Box 48 of 60	Folder 7 Family Andrenidae
Box 48 of 60	Folder 8 Family Anthophoridae
Box 48 of 60	Folder 9 Family Apidae

Box 49

Box 49 of 60	Folder 1 Family Colletidae
Box 49 of 60	Folder 2 Family Halictidae
Box 49 of 60	Folder 3 Family Megachilidae
Box 49 of 60	Folder 4 Family Melittidae
Box 49 of 60	Folder 5 Family Oxaeidae
Box 49 of 60	Folders 6-7 Miscellaneous notes and research materials

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Series 7: Field Work File, 1938-1963

This series provides partial documentation of field work and collecting trips conducted by Hurd between 1938 and 1963. The material includes field notes, journals, correspondence, and reports. Of special interest are field notes and records documenting Hurd's bird banding work in California, 1938-1954, and materials relating to his field work on the Arctic Institute of North America's Point Barrow, Alaska soil invertebrate project, 1952-1953. For other records on field work conducted by Hurd see Series 1, 3, and 4.

Box 50

- Box 50 of 60 Folders 1-2 Field notes on birds observed, collected, and banded in California, 1938-1940
[Digital Content: Field notes on birds observed, collected, and banded in California, 1938-1939 \(Folder 1\)](#)
[Digital Content: Field notes on birds observed, collected, and banded in California, 1938-1940 \(Folder 2\)](#)
- Box 50 of 60 Folder 3 Bird banding records, California, 1939-1954
[Digital Content: Bird banding records, California, 1939-1941](#)
- Box 50 of 60 Folder 4 Field journal, Lassen Volcanic Park, California, May - June 1941
[Digital Content: Field journal, Lassen Volcanic Park, California, May - June 1941](#)
- Box 50 of 60 Folder 5 Correspondence between Hurd and Earle Gorton Linsley concerning Hurd's field work in Texas and Mexico, May - August 1951
[Digital Content: Correspondence between Hurd and Earle Gorton Linsley concerning Hurd's field work in Texas and Mexico, May - August 1951](#)
- Box 50 of 60 Folder 6 Field notes, California, 1952
[Digital Content: Field notes, California, 1952](#)
- Box 50 of 60 Folder 7 Arctic Institute of North America (AINA) Point Barrow, Alaska soil invertebrate project. Field notes, 1952-1953.
[Digital Content: Arctic Institute of North America \(AINA\) Point Barrow, Alaska soil invertebrate project : field notes, 1952-1953](#)

Box 51

- Box 51 of 60 Folder 1 Arctic Institute of North America (AINA) Point Barrow, Alaska soil invertebrate project. General correspondence, 1952-1963. Concerns field work and the identification of specimens collected. Correspondents include Earle Gorton Linsley, Willis W. Wirth, A. Remington Kellogg, Willis J. Gertsch, Harlow B. Mills, Basil Elwood Montgomery, and Stanley F. Bailey.
- Box 51 of 60 Folder 2 AINA Point Barrow, Alaska soil invertebrate project. Correspondence with AINA, 1954-1958.
- Box 51 of 60 Folder 3 AINA Point Barrow, Alaska soil invertebrate project. Final report, "Analysis of Soil Invertebrate Samples from Barrow, Alaska," 1956.
- Box 51 of 60 Folder 4 Field notes, Arizona, 1958

[Digital Content: Field notes, Arizona, 1958](#)

- Box 51 of 60 Folder 5 California Insect Survey field trip, Los Padres National Forest, May 1959
- Box 51 of 60 Folder 6 California Insect Survey field trip, Los Padres National Forest, May 1962
[Digital Content: California Insect Survey field trip, Los Padres National Forest, May 1962](#)
- Box 51 of 60 Folder 7 California Insect Survey field trip, Deep Canyon Desert, April 1963
[Digital Content: California Insect Survey field trip, Deep Canyon Desert, April 1963](#)

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Series 8: Desk Diaries, 1972-1975

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Box 51 of 60	Folder 8 Desk diary, 1972
Box 51 of 60	Folder 9 Desk diary, 1973
Box 51 of 60	Folder 10 Desk diary, 1974
Box 51 of 60	Folder 11 Desk diary, 1975

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Series 9: Research File, 1946-1980, and undated

This series consists of materials created and collected by Hurd relating to his entomological research, especially on the Hymenoptera. The file includes correspondence; photographs and drawings; research notes; specimen lists; project proposals and reports; reports on research projects of colleagues; and manuscripts, and other records concerning the publication of manuscripts. Of special interest are copies of presidential addresses given at meetings of the Association of Economic Entomologists from 1899 to 1936; and a tape recording of a radio interview given by Hurd on killer bees.

Box 52

- Box 52 of 60 Folder 1 African honey bee. Correspondence, articles, and notes.
- Box 52 of 60 Folder 2 Anthidine nests. Photographs.
- Box 52 of 60 Folder 3 Aptos. Photographs.
- Box 52 of 60 Folders 4-8 Association of Economic Entomologists. Copies of presidential addresses, meetings 1-47, 1899-1936.
- Box 52 of 60 Folder 9 Bee Bibliography Program, 1965-1966
- Box 52 of 60 Folder 10 Bee type specimens. Correspondence and notes, 1970-1971. Correspondents include Charles V. Covell, Jr.

Box 53

- Box 53 of 60 Folder 1 Bee type specimens. Academy of Natural Sciences of Philadelphia.
- Box 53 of 60 Folder 2 Bee type specimens. Academy of Natural Sciences of Philadelphia, E. T. Cresson Collection.
- Box 53 of 60 Folder 3 Bee type specimens. La Plata Museum, Argentina.
- Box 53 of 60 Folder 4 Buprestidae beetles. Correspondence, articles, drawings, and photographs, 1952-1957, 1960-1961, 1967. Correspondents include William G. Evans, Borys Malkin, Jacques M. Helfer, Philip Hunter Timberlake, and Earle Gorton Linsley.
- Box 53 of 60 Folder 5 Cactus pollination. Correspondence, notes, and manuscripts, 1978. Correspondents include Verne Grant.
- Box 53 of 60 Folder 6 Chrysidid. Research materials, undated.
- Box 53 of 60 Folder 7 Dasymutilla. Photographs, undated.
- Box 53 of 60 Folder 8 Diagnosis of insect diseases. California Agricultural Experiment Station reports, 1953-1966.
- Box 53 of 60 Folder 9 Doult, Richard L., Hagen, K. S., and Compere, Harold. "Identification and classification of insect parasites and predators." California Agricultural Experiment Station project no. 1325, 1954-1955.

- Box 53 of 60 Folder 10 Douitt, Richard L. "Taxonomic investigations of the parasitic Chalcidoidea (Hymenoptera)." California Agricultural Experiment Station project no. 2077, 1963-1965.
- Box 54
- Box 54 of 60 Folder 1 Fossil insects. Research notes and a draft of a paper by Hurd, "The Insect Dimension in Time," undated.
- Box 54 of 60 Folder 2 Genera of bees in California, 1949
- Box 54 of 60 Folder 3 History of Entomology, undated
- Box 54 of 60 Folder 4 Hurd, Paul D., Jr., Linsley, Earle Gorton, Moore, Arthur D., and Ruckes, H., Jr. "The morphology, classification, biology, and control of coleopterous insects injurious to forests and forest products." California Agricultural Experiment Station project no. 1222, 1957-1958.
- Box 54 of 60 Folder 5 Hurd, Paul D., Jr., and Cazier, Mont Adelbert. "Ecology and bionomics of the Aculeate wasps and bees." California Agricultural Experiment Station project no. 2069, 1963-1968.
- Box 54 of 60 Folder 6 Jensen, Dilworth D. "The taxonomy, biology, and distribution of the Psyllidae (Homoptera)." California Agricultural Experiment Station project no. 1367, 1961-1966.
- Box 54 of 60 Folder 7 *Jepsonia*. Correspondence with and a copy of a paper by Robert Ornduff, undated.
- Box 54 of 60 Folder 8 Manuscript. "A Contribution to the Systematics of the Bee Genus *Protepeolus*," by Hurd and Earle Gorton Linsley, 1963.
- Box 54 of 60 Folder 9 Manuscript. "A New, Narrowly Polylectic, Autumnal Species of *Dialictus* from the Flowers of *Jepsonia heteranda*, an Endemic California Saxifrage," 1970.
- Box 54 of 60 Folder 10 Manuscript. "American Bees of the Genus *Dioxys* Lepeletier and Serville," 1970.
- Box 54 of 60 Folders 11-13 Manuscript. "The Bee Family Oxaeidae with a Revision of the North American Species," by Hurd and Earle Gorton Linsley, 1976. Includes correspondence of Linsley, and research notes.
- Box 54 of 60 Folder 14 Manuscript. Book review of Charles Duncan Michener's "A Classification of the Bees of the Australian and South Pacific Regions," 1967.
- Box 54 of 60 Folder 15 Manuscript. "The Conopid Flies of California," by Hurd and Sidney Camras, 1957.

Box 55

- Box 55 of 60 Folder 1 Manuscript. "Flower Preferences and Foraging Periods of *Agapostemon* in the Southwestern United States," by Hurd and Earle Gorton Linsley, undated.
- Box 55 of 60 Folder 2 Manuscript. "The Identity of *Megachile rotundata* (Fabricius) and *Megachile argentata* (Fabricius)," 1967.
- Box 55 of 60 Folder 3 Manuscript. "New Host Records for North American Spider-Wasps," by Hurd and Marius S. Wasbauer, 1956.
- Box 55 of 60 Folder 4 Manuscript. "Notes on the Autumnal Emergence of the Vernal Desert Bee," 1957.
- Box 55 of 60 Folder 5 Manuscript. "Parasitic Bees of the Genus *Holcopasites* Ashmead," by Hurd and Earle Gorton Linsley, 1971.
- Box 55 of 60 Folder 6 Manuscript. "Pollination of the Unicorn Plant (Martyniaceae) by an Oligolectic, Corolla - Cutting, Solitary Bee," by Hurd and Earle Gorton Linsley, 1963.
- Box 55 of 60 Folder 7 Manuscript. "Pompilidae of Lower California," undated.
- Box 55 of 60 Folder 8 Manuscript. "Principal Sunflower Bees of North America with Emphasis on the Southwestern United States," by Hurd, Wallace E. LaBerge, and Earle Gorton Linsley, 1980.
- Box 56
- Box 56 of 60 Folders 1-2 Manuscript. "Principal Sunflower Bees of North America with Emphasis on the Southwestern United States," by Hurd, Wallace E. LaBerge, and Earle Gorton Linsley, 1980.
- Box 56 of 60 Folder 3 *Megachile*. Bohart Iranian keys, undated.
- Box 56 of 60 Folder 4 *Megachile*. Loans from other Institutions, 1967-1968.
- Box 56 of 60 Folder 5 *Megachile*. Names currently applied in the new world *Megachile*.
- Box 56 of 60 Folder 6 *Megachile*. Names currently applied in the old world *Megachile*.
- Box 56 of 60 Folder 7 *Megachile*. Research materials.
- Box 56 of 60 Folder 8 *Megachile*. Type specimens in London and Copenhagen museums, 1964.
- Box 56 of 60 Folder 9 Middlekauff, Woodrow W. Grasshopper projects, 1961-1966.
- Box 56 of 60 Folder 10 Middlekauff, Woodrow W. "Sawflies attacking tree and agricultural crops in California." California Agricultural Experiment Station project no. 1362, 1963-1966.
- Box 56 of 60 Folder 11 Miller Professorship proposal, 1967

Box 57

- Box 57 of 60 Folder 1 National Science Foundation. Schecid Wasps Project, 1962-1964. Includes correspondence of Mont Adelbert Cazier.
- Box 57 of 60 Folder 2 National Science Foundation. "Classification of the Megachilini of the World," 1966-1971.
- Box 57 of 60 Folder 3 New Zealand bees, 1949. Includes letter from Paul Wilson Oman to Basil Elwood Montgomery, 14 December 1949.
- Box 57 of 60 Folder 4 *Nomadidae*. Photographs, undated.
- Box 57 of 60 Folder 5 *Nomia melanderi*. California records, 1946-1956.
- Box 57 of 60 Folder 6 Parasitic bees. Research materials, undated.
- Box 57 of 60 Folder 7 *Pepsis*. Bibliography, undated.
- Box 57 of 60 Folder 8 *Pepsis*. Brethes type study, 1959.
- Box 57 of 60 Folder 9 *Pepsis*. Mexican type study, undated.
- Box 57 of 60 Folder 10 *Pepsis*. Photographs, undated.
- Box 57 of 60 Folder 11 *Pepsis*. Research materials, undated.

Box 58

- Box 58 of 60 Folder 1 Plummers Island (Maryland) bees, 1971-1972.
- Box 58 of 60 Folder 2 Pollination studies. Reports of the California Agricultural Experiment Station, 1958-1966.
- Box 58 of 60 Folder 3 *Ptiloglossa*. Research materials.
- Box 58 of 60 Folder 4 Schlinger, Evert Irving. "Biology, Ecology, and Systematics of Diptera, with particular reference to Species of the Southwestern United States." California Agricultural Experiment Station project no. 2188, 1964-1968.
- Box 58 of 60 Folder 5 Scoliidae. Photographs, undated.
- Box 58 of 60 Folders 6-7 Second International Symposium on Pollination, London, July 1964
- Box 58 of 60 Folder 8 Smith, Ray Fred. "The Influence of Ants on Vegetation." California Agricultural Experiment Station project no. 2177, 1964-1966.

- Box 58 of 60 Folder 9 Smith, Ray Fred. "Biosystematics of *Diabrotica* and related Genera of Beetles." California Agricultural Experiment Station project no. 2324, 1965-1966.
- Box 58 of 60 Folder 10 South American *Epeolines*. Research materials and photographs, undated.
- Box 58 of 60 Folder 11 Tape recording. "Killer Bees." Radio interview of Hurd by station KPFA, San Francisco, California, 13 March 1967. Original and copy.
- Box 58 of 60 Folder 12 Timberlake, Philip Hunter. "A Revisional Study of the Bees of the Genus *Perdita*." California Agricultural Experiment Station project no. 2129, 1963-1966.
- Box 58 of 60 Folder 13 Timberlake, Philip Hunter. Notes on bee type specimens, 1979.

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Series 10: Student and Teaching Records, 1946-1970

This series consists primarily of materials illustrating Hurd's teaching career at the University of California, Berkeley. They include lectures and lecture notes, copies of examinations, course outlines, student evaluations of courses, class registers, and handouts. Also included are files on Ph. D. candidates whose programs were directed by Hurd. A small amount of material documenting Hurd's student days at Berkeley is included and consists of lecture notes from entomology courses taken as a graduate student and a copy of an undergraduate paper.

Box 59

- Box 59 of 60 Folder 1 California Insect Survey. Correspondence, reports, minutes, and articles, 1949-1967.
- Box 59 of 60 Folder 2 Entomology 49, Summer Field Course, 1958-1966
- Box 59 of 60 Folders 3-5 Entomology 101, Insect Identification Course, 1967-1970. Includes correspondence, examinations, course evaluations, class register, lectures and course plans.
- Box 59 of 60 Folder 6 Entomology 112, Systematic Entomology, 1964-1969. Consists mostly of handouts and notes.
- Box 59 of 60 Folder 7 Entomology 205 B, Seminar on Zoogeography, 1958. Consists mostly of copies of seminar papers.

Box 60

- Box 60 of 60 Folder 1 Entomology 289, S. L. Tuxen seminars, 1966. Consists of copies of Tuxen's talks.
- Box 60 of 60 Folder 2 Entomology 290 E, Systematic Entomology seminar, 1962-1966. Consists mostly of copies of seminar papers.
- Box 60 of 60 Folder 3 Entomology 290 F, Pollination seminar, 1964-1965. Consists mostly of copies of seminar papers.
- Box 60 of 60 Folder 4 Johnson, Clarence D. Ph. D. program, 1962-1967.
- Box 60 of 60 Folder 5 Lindquist, Evert E. Ph. D. program, 1959-1963.
- Box 60 of 60 Folder 6 Nelson, Bernard C. Ph. D. program, 1964-1966.
- Box 60 of 60 Folder 7 O'Brien, Lois B. Ph. D. program, 1965-1967.
- Box 60 of 60 Folder 8 Stage, Gerald I. Ph. D. program, 1959-1966.
- Box 60 of 60 Folder 9 Class notes recorded by Hurd during entomology lectures at the University of California, Berkeley, 1948, and a research paper, "Synopsis of California Pepsinae," written by Hurd as an undergraduate in 1946.

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Series 11: Oversize Materials

Oversize

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