Descriptive Summary

Title: Edwin Lee Hamilton Papers
Identifier/Call Number: SMC 0044
Contributing Institution: Special Collections & Archives, UC San Diego
9500 Gilman Drive
La Jolla, California, 92093-0175
Languages: English
Physical Description: 2.25 Linear feet (5 and 1 half archives boxes)
Date (inclusive): 1933 - 1995
Abstract: Papers of marine geologist Edwin Lee Hamilton documenting his work with the NEL Sea Floor Studies Group and MidPac Expedition. Includes photographs, field notebooks, and correspondence with Robert Dietz, Harry Hess, Gordon MacDonald, and H. William Menard.

Creator: Hamilton, Edwin L. (Edwin Lee), 1914-
Biography
American marine geologist Edwin Lee Hamilton was born in Sherman, Texas on December 20, 1914 and educated at Texas A&M University (B.S., Civil Engineering, 1936) and Stanford (M.S., Geology, 1951; Ph.D. 1952). After his distinguished wartime service in the U.S. Marine Corps, Hamilton spent most of his career as a geologist in the Sea Floor Studies Section of the Navy Electronics Laboratory (NEL, later Naval Undersea Research and Development Center) in San Diego, California. He also participated in the joint NEL-SIO MidPac Expedition of 1950.

Scope and Content of Collection
The collection includes correspondence dated 1933-1995, subject files, memoranda, research notebooks, notes, manuscripts of publications, photographs, slides and other material documenting the career of Edwin Lee Hamilton. The collection is arranged into five series: 1) CORRESPONDENCE, 2) SUBJECT FILES, 3) NOTEBOOKS, 4) PUBLICATIONS, and 5) PHOTOGRAPHS AND SLIDES.

SERIES 1: CORRESPONDENCE
The CORRESPONDENCE series contains letters exchanged with oceanographers and geologists including Robert Dietz, Harry Hess, Gordon MacDonald, and H. William Menard. The series includes some photocopies of the originals.

SERIES 2: SUBJECT FILES
The SUBJECT FILES series includes material documenting the MidPac Expedition, as well as the work of the Sea Floor Studies Group of the U.S. Navy Electronics Laboratory in San Diego, California. The series also includes Hamilton’s notes of a class on ecology of marine animals taught by R.L. Bolin at Hopkins Marine Station in 1949.

SERIES 3: NOTEBOOKS
The NOTEBOOKS include some field observations, but consist largely of notes and data collected in support of Hamilton’s scientific papers.

SERIES 4: PUBLICATIONS
The PUBLICATIONS series includes manuscripts and reprints of publications authored by Hamilton and in collaboration with others.

SERIES 5: PHOTOGRAPHS AND SLIDES
The PHOTOGRAPHS AND SLIDES series consists largely of images created or collected for lectures and scientific papers. The series also includes some photographs and slides taken on the MidPac Expedition.

Digital Content
Selected photographs from this collection have been digitized and can be viewed through links in the container list.

 Publication Rights
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Acquisition Information
Acquired, 1999.

Preferred Citation
Edwin Lee Hamilton Papers, SMC 44. Special Collections & Archives, UC San Diego.

OFF-SITE STORAGE
Subjects and Indexing Terms
Dietz, Robert S. (Robert Sinclair), 1914-1995 -- Correspondence
Hamilton, Edwin L. (Edwin Lee), 1914- -- Archives
Hess, Harry Hammond, 1906-1969 -- Correspondence
Macdonald, Gordon A. (Gordon Andrew), 1911-1978 -- Correspondence
Menard, Henry W. (Henry William), 1920-1986 -- Correspondence
MidPac Expedition (1950).
Naval Electronics Laboratory Center.
Marine geophysics--20th century
Marine sediments
Submarine geology--20th century
Underwater acoustics

CORRESPONDENCE

Box 1, Folder 1-19 1933 - 1995 and undated

SUBJECT FILES

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Box 1, Folder 21 American Geophysical Union (AGU) 1956
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Box 2, Folder 2 California Academy of Sciences 1961, 1976, 1983 and undated
Box 2, Folder 3 Computation (methods, equations) 1965 - 1979 and undated
Box 2, Folder 4 Deep Sea Drilling Project 1975
Box 2, Folder 5 Deep submersible - public relations miscellaneous 1963-1968, 1976 and undated
Box 2, Folder 6 Dietz, Robert S. 1968 - 1994 and undated
Box 2, Folder 7 Geological Society of America (GSA) 1958 - 1967 and 1984

Hamilton, Edwin L.

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Box 2, Folder 16 Memo to Carey Smith regarding information on properties for underwater acoustics 1977

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Box 2, Folder 18 Metric units 1970 - 1971
Box 2, Folder 19 MidPac fossil notes 1950 - 1951 and undated

Navy Electronics Laboratory (NEL)

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Box 2, Folder 24 Program recommendation 1985 and undated

Box 3, Folder 1 Pacific Science Congress 1957, 1961, 1985 - 1986 and undated
Box 3, Folder 2 Scuba diving, Geological Diving Consultants (GDC) - Includes photos 1952 - 1957 and undated
Box 3, Folder 3 Shipek, Carl 1969, 1980 and undated
Box 3, Folder 4 | Society for Exploration Geophysicists (SEG) 1988 and 1992
Box 3, Folder 5 | Society for Sedimentary Geology (SEPM) - American Association of Petroleum Geologists (AAPG) 1949 and undated
Box 3, Folder 6 | Stanford 1946 - 1948 and undated
Box 3, Folder 7 | Statistics 1980 - 1982 and undated
Box 3, Folder 8 | Student notes, Ecology of Marine Animals 60h, Hopkins Marine Station, Dr. R.L. Bolin (professor), by Edwin L. Hamilton 1949 and undated
Box 3, Folder 9 | U.S. Army German language guides 1943 and 1956
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Box 4, Folder 4 | Vp vs. P gradients 1977 - 1978 and undated

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Box 4, Folder 14 | "Lower eocene phosphatized Globigerina Ooze from Sylvania Guyot" - Includes photos 1957, 1959, 1961
Box 4, Folder 15 | "Acoustic and other physical properties of shallow water sediments off San Diego" 1956
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Box 4, Folder 22 | "Ocean basin ages and amounts of original sediments" 1960
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Box 4, Folder 29 | "Sea floor relief" 1963
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Box 4, Folder 31 | "Sound speed and related physical properties of sediments from experimental Mohole (Guadalupe Site)" 1965
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<td>&quot;Marine geology of abyssal plains in the Gulf of Alaska&quot;</td>
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<td>&quot;Prediction of In-Situ acoustic and elastic properties of marine sediments&quot;</td>
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<td>5, 7</td>
<td>&quot;Correlation between Qs of shear waves and rigidity&quot;</td>
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<td>&quot;Sediment velocities from sonobuoys: Bengal Fan, Sunda Trench, Andaman Basin, and Nicobar Fan&quot;</td>
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<td>5, 24</td>
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**PHOTOGRAPHS AND SLIDES**

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<td>Globigerina ooze on top of Sylvania Seamount near Bikini Atoll, ca. 1950</td>
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<td>Chain-bag dredge and complete dredge haul, ca. 1950</td>
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<td>Chain-bag dredge, ca. 1950</td>
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<td>Echinoid, shark tooth, cetacean earbone, and basalt peddle samples from MidPac, 1950 November 7</td>
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<td>Rock samples from MidPac total dredge haul at station MP 33C, 1950 November 7</td>
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Rock samples from MidPac total dredge haul at station MP 33D, 1950 November 7

MidPac and miscellaneous photographs and negatives ca. 1950 - 1975

General note
Selected photographs from this folder have been digitized.

MidPac expedition crew, ca. 1950
Crew examining dredge haul on MidPac expedition, ca. 1950
Dredge haul from Sylvania Seamount containing fossil corals, ca. 1950

Edwin Lee Hamilton portrait, 1964 October 27

35mm slides, general 1951 - 1979 and undated

35mm slides, properties I 1970 - 1979 and undated

35mm slides, properties I 1962, 1968 - 1987 and undated

35mm slides, properties, reports II 1980 - 1985

35mm slides 1973 - 1987 and undated