

Willard Bascom Papers

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Descriptive Summary

Languages: English

Contributing Institution: Special Collections & Archives, UC San Diego

9500 Gilman Drive

La Jolla 92093-0175

Title: Willard Bascom Papers

Creator: Bascom, Willard

Identifier/Call Number: SMC 0062

Physical Description: 13 Linear feet(13 records center cartons, 1 map case folder, 11 films, and digital files)

Physical Description: 23.6 Gigabytes

Date (inclusive): 1938-2000

Abstract: Papers of engineer and oceanographer Willard Bascom, including his correspondence, research files, writings, photographs and films, along with materials from his company, Ocean Science and Engineering, Inc.

Scope and Content of Collection

Papers of engineer and oceanographer Willard Bascom, including his correspondence, research files, writings, photographs and a small selection of films, along with materials from his company, Ocean Science and Engineering, Inc. Subjects of note include Project Mohole, marine salvage and mineral prospecting, underwater archaeology, coastal engineering and marine water pollution. The collection also includes Bascom's original 1953 memoir entitled "My Bubbles Rise in Steps: Free-Diving Adventures in the Tropical Pacific," which details his experiences on the Capricorn Expedition.

Arranged in ten series: 1) BIOGRAPHICAL FILES, 2) CORRESPONDENCE, 3) SUBJECT FILES, 4) GROUPS AND ORGANIZATIONS, 5) OCEAN SCIENCE AND ENGINEERING, INC. (OSE), 6) PROJECTS AND EXPEDITIONS, 7) CONFERENCES AND EVENTS, 8) WRITINGS, 9) PHOTOGRAPHS AND SLIDES and 10) AUDIOVISUAL MATERIAL.

Biography

Willard Bascom was a research engineer and oceanographer who pioneered a number of deep sea drilling and salvage projects. Bascom attended the Colorado School of Mines where he studied engineering and geology and worked as a mining engineer from 1941-1945. He then served as Research Engineer for the UC Berkeley WAVES Project, where he directed a field party studying waves and shorelines between 1945 and 1951. He joined the Scripps Institution of Oceanography in 1951 as a Research Engineer studying weapons effects at nuclear test sites in the Pacific Proving Grounds. While at SIO he worked as adjunct professor and accompanied the 1953 Capricorn Expedition as Senior Scientist in charge of pressure measurements throughout the cruise. In 1954 he joined the staff at the National Science Foundation, where he spearheaded the preliminary phases of Project Mohole, the first proposed attempt to drill through the earth's crust. As Director of Project Mohole between 1959 and 1962 Bascom helped develop dynamic positioning techniques for holding ships in place during drilling processes. In 1961, test drilling took place at a groundbreaking depth of 11,700 feet, however the project lost congressional support and was ultimately abandoned.

In 1962 Bascom founded Ocean Science and Engineering, Inc. (OSE), an undersea mineral resources excavation company which procured approximately 20 million carats of diamonds for the De Beers diamond company in South Africa. In addition to his coastal engineering and mineral prospecting work, Bascom was also greatly interested in underwater archaeology and the salvage of submerged vessels and ancient shipwrecks. In the early 1960s, OSE developed a mechanical arm attached to the R/V *ALCOA Seaprobe* for the purpose of retrieving sunken vessels at great depths, up to 1000 feet. His other company, Seafinders Inc., discovered the wreck of the *Nuestra Senora de la Maravillas* Spanish treasure galleon in the Bahamas in 1972. Between 1973 and 1984 Bascom served as Director of the Southern California Coastal Water Research Project (SCCWRP), an environmental research laboratory concerned with waste disposal in the ocean. After leaving SCCWRP, Bascom continued his underwater archaeology endeavors in the Mediterranean Sea. In the early 1990s, Bascom found a wreck near Artemision in northern Euboea, Greece from which he recovered three bronze statues for the Greek National Museum. In 1996 Bascom was party to the crew who recovered a treasure hoard of 1860s gold coins from the *Brother Jonathan* paddle steamer which sunk off the coast of Crescent City, California in 1865.

Bascom was a keen videographer and writer, and he documented many of his activities through both film and narrative. He authored and edited several books, including *A Hole in the Bottom of the Sea: The Story of the Mohole Project* (1961), *Great Sea Poetry* (1969), *Deep Water, Ancient Ships: The Treasure Vault of the Mediterranean* (1976), *Waves and Beaches: The Dynamics of the Ocean Surface* (1979), and *The Crest of the Wave: Adventures in Oceanography* (1990).

Bascom received the Explorer's Club Medal for his contributions to deep water archaeology and geophysics in 1980. He died in San Diego in 2000.

Preferred Citation

Willard Bascom Papers. SMC 62. Special Collections & Archives, UC San Diego.

Acquisition Information

Acquired 1989-2008.

OFF-SITE STORAGE

COLLECTION STORED OFF-SITE. ALLOW ONE WEEK FOR RETRIEVAL OF MATERIALS.

Publication Rights

Publication rights are held by the creator of the collection.

Restrictions

Original media formats in SERIES 10) AUDIOVISUAL MATERIAL are restricted.

Digital Content

Many of the moving image recordings have been digitized. Two films exist only in digital format.

Subjects and Indexing Terms

Ocean engineering

Underwater archaeology

Bascom, Willard -- Archives

Project Mohole -- Archives

Ocean Science and Engineering, Inc. -- Archives

Capricorn Expedition (1952-1953)

BIOGRAPHICAL FILES**Scope and Content of Series**

Series 1) BIOGRAPHICAL FILES: Curricula vitae, awards, diaries and calendars.

Box 1, Folder 1
Box 1, Folder 2
Box 1, Folder 3

Biographical notes and narratives ca. 1968-1972
Curricula vitae undated
IMR directorship 1979**General note**

Application packet includes personal biography, employment history and bibliography.

Box 1, Folder 4
Oversize SIO
MC-121-01
Box 1, Folder 5

Awards 1952-2000
Awards (oversize) 1986, 2000
"Willard Bascom: Exploring the Possibilities" by Michael B. Downing 1984**General note**

Profile for *Oceanus*. Draft version with Bascom's annotations and edits.

Box 1, Folder 6
Box 1, Folder 7-33

International Hod Carriers' Building and Common Laborers' Union of America membership book 1938
Diaries 1954-1995**General note**

1970 diary records round world trip; 1975 diary records trip to Greece and Malta; 1980 diary records trip to Greece and Turkey; 1988 diary records Yucatan and Mexico City trip; 1989-1995 diaries record Artemisian Expedition, Black Sea Expedition and other trips to Greece and the Black Sea.

Box 1, Folder 34
Box 1, Folder 35
Box 2, Folder 1
Box 2, Folder 2

Calendars 1961-1963
Calendars 1975-1977
Calendars 1978-1980
Calendars 1984-1986

CORRESPONDENCE**Scope and Content of Series**

Series 2) CORRESPONDENCE: Includes general correspondence detailing Bascom's professional activities, dating from 1946 to 1988, and personal correspondence, such as family letters and letters regarding Bascom's interest in collecting art, dating from 1956 to 1987.

Box 2, Folder 3-37
Box 3, Folder 1-11
Box 3,
Folder 12-41

Professional correspondence 1946-1976**Professional correspondence 1977-1988****Personal correspondence 1956-1987****SUBJECT FILES****Scope and Content of Series**

Series 3) SUBJECT FILES: Working files on subjects of professional interest. Arranged alphabetically according to subject and mostly kept in original order.

Box 3, Folder 42

Anderson, Dick 1968-1970**General note**

Diver-photographer who filmed OSE operations.

Box 3, Folder 43

Aquatic toxicity testing 1984

Box 3,

Beaches ca. 1950-1959

Folder 44-45

Box 3, Folder 46

Bikini Atoll - Bascom's research file on Bikini Islanders 1980-1989

Box 3, Folder 47

Carpenter vs. City of Santa Monica 1982

Box 3, Folder 48

CBS 1954-1958

Box 3, Folder 49

Cleopatra's Island 1985-1986

Box 3, Folder 50

Conservation of salvaged artifacts 1972-1973

Box 3,

Deep sea instrument platforms 1950-1959

Folder 51-52

Box 4, Folder 1

"Deep Water Aircraft Salvage" film 1969

Box 4, Folder 2

Diamonds 1964-1984

Box 4, Folder 3

"Diamonds Under the Sea" film 1965, 1983

Box 4, Folder 4-10

Diving - Notes and correspondence 1949-1954

Box 4,

E-Quest 1962-1968

Folder 11-12

Box 4, Folder 13

Fomento Industrial 1968

Box 4, Folder 14

HEXCEL Products, Inc. 1955-1961

Box 4, Folder 15

Home shelters for civilians 1956-1962

Oversize SIO

Home shelter blueprint (oversize) by Bascom 1956

MC-121-01

Box 4, Folder 16

J.H. Pomeroy & Co., Inc. 1957-1958

Box 4,

Kentworthy vs. Marx 1974-1980

Folder 17-20

Box 4, Folder 21

Mahon, John 1966-1972

Box 4, Folder 22

Marine Archaeology and Maritime History - Course taught by Bascom at SIO 1977-1978

Box 4, Folder 23

Marine ecology 1974-1976

Box 4, Folder 24

Mark IX wave recorder ca. 1955

Box 4, Folder 25

Marx, Robert 19701-979

Box 4,

Metcalf and Eddy, Inc. Engineers 1978-1985

Folder 26-27

Box 4,

Moorings and instruments 1950-1959

Folder 28-29

Box 4, Folder 30

Ocean engineering education - Correspondence, notes and proposed curricula 1948-1953

Box 4, Folder 31

Ocean Search, Inc. 1973-1974

Box 4, Folder 32	Operation Miki 1950 General note A military exercise which simulated a massive invasion of the Hawaiian Islands.
	Patent infringement suit General note Ocean Science & Engineering, Inc. and Willard Bascom, Plaintiffs, v. United States of America, Defendant. No. 239-75.
Box 4, Folder 33-34	General information and correspondence 1975-1982
Box 4, Folder 35-36	Court of Claims documents 1975-1978
Box 4, Folder 37	Attachments and exhibits 1958-1976 General note Correspondence and notes submitted as evidence.
Box 5, Folder 1-5	Attachments and exhibits (cont.) 1958-1976
Box 5, Folder 6	Deposition of Professor John Isaacs 1977 March 1
Box 5, Folder 7	Notes 1970-1979
Box 5, Folder 8	Slides 1970-1979 General note 35mm color slides. Charts and images used during trial.
Box 5, Folder 9	Petroglyphs 1976
Box 5, Folder 10-12	Point Loma kelp beds 1982-1985
Box 5, Folder 13	Press and appearances 1980-1989
Box 5, Folder 14-17	R/V ALCOA SEAPROBE 1967-1974
Oversize SIO MC-121-01	R/V Willard Bascom 1981 General note Oversize blueprint and sketches of proposed sail-assisted oceanographic research vessel.
Box 5, Folder 18-19	Research sailing vessels blueprints and plans ca. 1980-1989
Box 5, Folder 20	Rolex Awards for Enterprise ca. 1990-1999 General note Bascom won a 1993 Rolex Award for Enterprise for his project entitled "The remote examination of ancient shipwrecks below diver depth in the Sea of Marmara (Turkey)."
Box 5, Folder 21	Santa Monica Basin 1985
Box 5, Folder 22	SCUBA 1953
Box 5, Folder 23-26	Speaking engagements ca. 1960-1980
Box 5, Folder 27-29	Television programming ca. 1950-1980
Box 6, Folder 1-2	Television programming (cont.) ca. 1950-1980
Box 6, Folder 3-4	Trace metals 1973-1979
Box 6, Folder 5	Treasure 1968-1982 General note Collected correspondence, notes and brochures regarding the retrieval of sunken treasure.

Box 6, Folder 6-7	"Treasure Fever, Mon" 1972-1973 General note Correspondence, notes and other materials relating to a proposed film about searching for sunken treasure.
Box 6, Folder 8 Box 6, Folder 9 Box 6, Folder 10-13	Undersea warfare 1953-1956 Underwater archeology projects - Correspondence and notes 1970-1975 Underwater archeology education 1974-1978 General note Correspondence and curricula regarding the implementation of marine archeology courses in higher education. Includes proposals written for the University of California and California State University system for an archaeological research institute.
Box 6, Folder 14 Box 6, Folder 15	Virgin Islands rum liquor discharge 1977 Water Planning for Israel Ltd. 1976 GROUPS AND ORGANIZATIONS Scope and Content of Series Series 4) GROUPS AND ASSOCIATIONS: Includes correspondence, memoranda, notes and committee files documenting Bascom's participation in various groups pertaining to engineering and oceanography, arranged alphabetically.
Box 6, Folder 16-17 Box 6, Folder 18 Box 6, Folder 19-23 Box 6, Folder 24-26 Box 6, Folder 27 Box 6, Folder 28 Box 6, Folder 29 Box 6, Folder 30 Box 6, Folder 31	AAAS Committee on the Public Understanding of Science 1960-1962 The Adventurers' Club 1977-1981 Advisory Committee on Civil Defense, NAS-NRC 1954-1957 Atomic Energy Commission Plowshare Advisory Committee 1965-1971 California Regional Water Quality Control Board 1982-1985 Civil Defense Board to the Montgomery County Council 1958 Coastal Engineering Research Board 1984-1985 Deep Submersible Pilots Association 1981-2000 Explorers Club 1969-1983 General note Correspondence, notes and meeting materials. Bascom received the Explorers Club Medal in 1980 for his work with deep water archaeology and ocean geophysics.
Box 7, Folder 1 Box 7, Folder 2-3 Box 7, Folder 4 Box 7, Folder 5-7 Box 7, Folder 8 Box 7, Folder 9-13 Box 7, Folder 14-15	National Academy of Sciences ca. 1950-1956 National Research Council Panel on Underwater Swimmers 1951-1957 Naval Research Advisory Committee 1970-1977 Ocean Sciences Board 1978-1982 President's Committee on Government Operations - Study of Civil Defense 1957 Seafinders, Inc. 1970-1977 Searle Consortium (International consultants in ocean engineering, towing, salvage and diving) 1986-1991 OCEAN SCIENCE & ENGINEERING, INC. (OSE) Scope and Content of Series Series 5) OCEAN SCIENCE AND ENGINEERING, INC. (OSE): Includes company correspondence and internal communications, project proposals, reports, photographs and notes.
Box 7, Folder 16-17 Box 7, Folder 18 Box 7, Folder 19 Box 7, Folder 20-21	General information and correspondence 1963-1975 Finances 1963-1967 Management and personnel 1965-1968 Operational Committee meetings 1966-1968

	<p>Proposals and reports USS Thresher 1963, 1975-1976</p>
Box 7, Folder 22-23	
Box 7, Folder 24	
Box 7, Folder 25	
Box 7, Folder 26	
Box 7, Folder 27	
Box 7, Folder 28	
Box 8, Folder 1	
Box 8, Folder 2	
Box 8, Folder 3	
Box 8, Folder 4-5	
Box 8, Folder 6	
	<p>OSE Proposes SEARCH: SEA Recovery of Costly Hardware to NASA 1964 April Progress Report for April-May 1964 to De Beers Consolidated Mines Limited on the Southern Diamond Corporation Concession Evaluation Project 1964 August Report on Rockeater Sampling Programme in the Marine Diamond Corporation Concession 1965 January Report on Rockeater Sampling Programme in the Atlantiese Diamant Korporasie 1965 March Tidal Diamonds Concession Geologic Report 1965 August Proposal to Aluminum Corporation of America for an Aluminum Oceanographic Laboratory 1966 December The Construction and Operation of a Ship to Recover Valuable Objects from the Ocean Floor 1967 June A Proposal to Air Force Intelligence of a Study of the Feasibility of Recovering Fragments of Soviet Missiles form the Floor of the Deep Ocean undated Correspondence and notes about proposed book on salvage engineering 1969-1971 Film awards 1966-1968</p> <p>General note Annual Industrial Film awards for First Deep Ocean Drilling (1966) and A New Harbor for Capetown (1967); American Film Festival Honors awards for The First Deep Ocean Drilling (1967), and A New Harbor for Capetown (1968).</p>
Box 8, Folder 7-11	
Box 8, Folder 12	
Box 8, Folder 13	
Oversize SIO	
MC-121-01	
	<p>Miscellaneous photographs 1960-1970 Sketches of equipment undated Menke notes 1965-1968 Project site surveys ca. 1960-1969</p> <p>General note Oversized maps and sketches.</p>
	<p>PROJECTS AND EXPEDITIONS</p> <p>Scope and Content of Series Series 6) PROJECTS AND EXPEDITIONS: Includes correspondence, notes and working files detailing Bascom's consultant work, Project Mohole, the Southern California Coastal Water Research Project (SCCWRP) and underwater salvage projects, arranged chronologically.</p>
Box 8, Folder 14-16	
Box 8, Folder 17	
	<p>Consultant work 1972-1985</p> <p>Capricorn Expedition 1953</p> <p>General note Correspondence, memoranda and general information pertaining to Bascom's role of measuring pressure at different installations during the cruise.</p>
Box 8, Folder 18	
Box 8, Folder 19	
	<p>Project Mohole</p> <p>General information and correspondence 1960-1963 The Mohole Project summary 1959</p> <p>General note Written by Bascom as Technical Director of the American Miscellaneous Society (AMSOC) Committee.</p>
Box 8, Folder 20	
Box 8, Folder 21	
Box 8, Folder 22	
Box 8, Folder 23	
	<p>Ship design 1961-1963 The Earth's Crust and the Mohole Project - Bascom lecture 1962 November 21 Notes undated Photographs of personnel aboard CUSS I 1961</p>

Box 8, Folder 24-25	Miscellaneous photographs of personnel, equipment and vessels 1961-1962
Box 8, Folder 26	Cable survey in South Africa 1965
Box 8, Folder 27	Bahamas treasure 1971-1973
Box 8, Folder 28	Dan Region Wastewater Project 1976
Box 8, Folder 29-36	Southern California Coastal Water Research Project 1975-1985
Box 9, Folder 1-5	Southern California Coastal Water Research Project (cont.) 1975-1985
Box 9, Folder 6	Santa Monica sand accretion 1981-1982
Box 9, Folder 7	Waterways Experiment Station, Army Corps of Engineers 1984
Box 9, Folder 8-11	San Diego Designation Study 1985
Box 9, Folder 12-13	Santa Cruz Wastewater Treatment Plant 1985-1986
	General note
	Bascom served as consultant through Brown and Caldwell Consulting Engineers.
Box 9, Folder 14	Ballast Trail of Black Rock galleon wreck 1987-1993
Box 9, Folder 15	CETREL, Bahia 1989
Box 9, Folder 16	Black Sea ancient ship expedition 1991
Box 9, Folder 17	Cape Artemision salvage 1993-1997
	CONFERENCES AND EVENTS
	Scope and Content of Series
	Series 7) CONFERENCES AND EVENTS: Notes, correspondence and meeting materials detailing Bascom's professional attendance, arranged chronologically.
Box 9, Folder 18	Fourth Conference on Coastal Engineering 1953
Box 9, Folder 19	International Conference on the Peaceful Uses of Atomic Energy 1955 June 30
Box 9, Folder 20	Undersea Warfare Committee Meeting 1955 September 16
Box 9, Folder 21	First Conference on Coastal Engineering Instruments 1955 October 31-November 2
Box 9, Folder 22	AAAS Moho (Mohole) Symposium 1960 December 30
Box 9, Folder 23	First International Congress on Diamonds in Industry Symposium 1962 June 2
	General note
	Bascom presented a lecture on the Mohole Project.
Box 9, Folder 24	Drilling Beneath the Ocean - Honeywell Engineers Lecture Series 1963 February 24
Box 9, Folder 25	Fairleigh Dickinson Oceanology Conference 1967 June 20-22
Box 9, Folder 26	Interregional Seminar on New Methods for Mineral Exploration with Emphasis on Geophysical Techniques 1967 July 17-22
Box 9, Folder 27	Scripps Public Symposium 1968 February 1-2
	General note
	Bascom presented lecture entitled "Minerals from the Ocean."
Box 9, Folder 28	AAAS-Brookings Seminars for Members of Congressional Staffs 1968 March 26-27
Box 9, Folder 29	Workshop on the Effects of Human Activity on the Coastal Ocean 1984 January 9-11
Box 9, Folder 30	A Forum for Discussion of Municipal Waste Disposal, Conference of Coastal Agencies 1984 March 8
Box 9, Folder 31	OCEANS '85 1985 November 12-14
	General note
	Bascom presented paper entitled "The Evidence of One's Eyes."
Box 9, Folder 32	Working Solutions: Shore and Beach - O'Brien Symposium 1987 March 23-24
	WRITINGS
	Scope and Content of Series
	Series 8) WRITINGS: Bascom's manuscripts, publications and notes. Arranged in two subseries: A) Papers and publications and B) Notes.

Box 9, Folder 33

The Causes of Movement of Ocean Sands 1950 December

Box 9, Folder 34

The Relationship Between Sand Size and Beach Face Slope 1951 April

Box 9, Folder 35

A Preliminary Study of the Problems of Underwater Demolition Teams 1951 June

Box 9, Folder 36-37

"Beach Characteristics," *ONR Manual of Amphibious Oceanography* 1951 July

Box 9, Folder 38

Observations on Water Temperature, Wave Steepness and Beach Width, Carmel, California 1951

Box 9, Folder 39-41

My Bubbles Rise in Steps: Free-Diving Adventures in the Tropical Pacific - Memoir from Capricorn Expedition 1953 March

Box 9, Folder 42

Diving Geologists! Why Not? 1953 June

Box 9, Folder 43

Lambersten, Christian J. and Willard Bascom. "The Permissible Level of Carbon Monoxide in Inspired Air Used for Diving" 1953 December

Box 10, Folder 1

Characteristics of Natural Beaches 1953

Box 10, Folder 2-4

A Hole in the Bottom of the Sea 1959-1966

Box 10, Folder 5

Force and Policy 1956 August

Box 10, Folder 6

Anti-Shark Alternatives 1956

Box 10, Folder 7

To Be or Not To Be... 1956

Box 10, Folder 8

Old Uses for a New Navy ca. 1957

Box 10, Folder 9

Biological Versus Cultural Evolution 1958 August

Box 10, Folder 10

Civil Defense, *Encyclopedia Britannica* 1958

Box 10, Folder 11

Science and Network Television ca. 1958

Box 10, Folder 12

Peacetime Uses of Deep-Moored Buoys 1959 February

Box 10, Folder 13

Gregory, John B. and Willard Bascom. "Maneuvering Devices for Ships" 1959 March

Box 10, Folder 14-15

"The Mohole", *Scientific American* 1959 April

Box 10, Folder 16

Beaches 1960

Box 10, Folder 17

The Origin of the Ocean 1961

Box 10, Folder 18

A Second Front ca. 1961

Box 10, Folder 19

E-Quest 1963

General note

Submitted to *Scientific American*

Box 10, Folder 20

Great Sea Poetry 1969

General note

Published compilation of sea-related poetry, arranged by Bascom.

Box 10, Folder 21

Ocean Science in Vietnam 1967

Box 10, Folder 22

Oil in the Arctic Islands 1969

Box 10, Folder 23

The Pearl Divers of Takaroa 1969

Box 10, Folder 24

Technology and the Ocean 1969

Box 10, Folder 25

The Remarkable CRAWLCUTTER of O.S. & E, Inc. 1970

Box 10, Folder 26

Proposal for Doing Deep Marine Archaeology in Greek Waters 1971 April

Box 10, Folder 27

"Deep Water Archeology," *Science* 174 1971 October

Box 10, Folder 28

Proposal for Oil Storage and Transport Co. a Delaware Corporation 1972 January

Box 10, Folder 29

Archaeology in Deep Water 1972

Box 10, Folder 30

Ancient Ships in Deep Water 1973 June

Box 10, Folder 31

Waste Disposal in the Ocean 1973-1976

Box 10, Folder 32

Finding the Lost Treasure of the Mimbres ca. 1973

Box 10, Folder 33

Deep Water, Ancient Ships: The Treasure Vault of the Mediterranean 1974-1977

Box 10, Folder 34

Science and Ancient Sea Stories 1976 February

Box 10, Folder 35

Imagination in Marine Education 1976

Box 10, Folder 36-38

Waves and Beaches 1960-1980

Box 10, Folder 39

Engineering and the Efficient Use of the Sea 1980

Box 10, Folder 40

The Use of Sailing Ships for Oceanography, Ocean Science Board 1980

General note

Bascom was on the Ad Hoc Panel on the Use of Sailing Ships for Oceanography of the Ocean Science Board.

Box 10, Folder 41

Remembrances of John Isaacs 1980 November

Box 10, Folder 42

King Event, Operation Ivy 1981 March

Box 10, Folder 43

Spilhaus, Athelstan and Willard Bascom. "A Sail Assisted Ship for Ocean Research" ca. 1982

Box 10, Folder 44

Memorable Moments in Marine Technology undated

Box 10, Folder 45

Offshore Prospecting for Minerals undated**Notes**

Box 10, Folder 46	Miscellaneous notes labeled "ideas to work on" 1958-1968
Box 10, Folder 47	Miscellaneous notes 1976-1985
Box 10, Folder 48	Miscellaneous notes from seminars ca. 1980-1989
Box 11, Folder 1	Miscellaneous notes from seminars (cont.) ca. 1980-1989
Box 11, Folder 2	Carmel Beach 1946-1947
Box 11, Folder 3	Beach erosion, notes and graphs ca. 1950-1959
Box 11, Folder 4	Desalination ca. 1950-1959
Box 11, Folder 5	Instruments and equipment ca. 1950-1959
Box 11, Folder 6	Waves ca. 1950-1959
Box 11, Folder 7	Harbor surging ca. 1950-1959
Box 11, Folder 8	Notes on theory on the origin of cancer from a discussion with Roger Revelle 1954 April
Box 11, Folder 9	Assorted design sketches 1956
	General note
	Includes design for "water sub-machine gun" and "radio record-player cabinet."
Box 11, Folder 10	Buoys 1965
Box 11, Folder 11	Design sketches ca. 1970-1979
Box 11, Folder 12	Great Lakes shipwrecks ca. 1970
Box 11, Folder 13	Bahama Bank film 1972
Box 11, Folder 14	Magnetics 1972
Box 11, Folder 15	Climate change 1974
Box 11, Folder 16	Endangered birds 1979
Box 11, Folder 17	Marine resources 1979
Box 11, Folder 18	Notes on Southern California beach recreation statistics ca. 1980
Box 11, Folder 19	Assimilative Capacity Concept 1982
Box 11, Folder 20	Biochemistry 1984
Box 11, Folder 21	Hydrocarbon outputs 1984
Box 11, Folder 22	Cancer risks 1985
Box 11, Folder 23	San Diego sand undated

PHOTOGRAPHS AND SLIDES**Scope and Content of Series**

Series 9) PHOTOGRAPHS AND SLIDES: Subjects of note include photographs of Bascom, Project Mohole, research vessels, engineering equipment, the UC Berkeley Wave Project, coastal dredging, underwater salvage and mineral prospecting projects and work at sea. Arranged in two subseries: A) Photographs and B) Slides.

Photographs

Box 11, Folder 24	<p>Miscellaneous photos of Willard Bascom ca. 1960-1980</p> <p>General note</p> <p>Portraits and candid photographs of Bascom in group pictures.</p>
Box 11, Folder 25 Box 11, Folder 26 Box 11, Folder 27-34	<p>Miscellaneous ship wrecks ca. 1910-1960</p> <p>Miscellaneous ships in storms ca. 1910-1970</p> <p>Miscellaneous coastal features ca. 1945-1960</p> <p>General note</p> <p>A large number of photographs depicting coastlines, beaches, jetties, bays and marinas.</p>
Box 11, Folder 35 Box 11, Folder 36-38 Box 11, Folder 39 Box 11, Folder 40 Box 11, Folder 41-52	<p>Miscellaneous ships and research vessels ca. 1945-1960</p> <p>Miscellaneous ship equipment ca. 1950-1960</p> <p>Engineers at work on beach ca. 1946</p> <p>Operation Crossroads atomic bomb tests 1946</p> <p>UC Berkeley Wave Project ca. 1950-1959</p> <p>General note</p> <p>Collected photographs related to project designed to create amphibious military landings using nearshore waves and underwater topography. Original groupings of photographs maintained. Most photographs are undated and unidentified.</p>
Box 12, Folder 1-7 Box 12, Folder 8 Box 12, Folder 9 Box 12, Folder 10 Box 12, Folder 11 Box 12, Folder 12 Box 12, Folder 13 Box 12, Folder 14-15 Box 12, Folder 16 Box 12, Folder 17-19	<p>UC Berkeley Wave Project (cont.) ca. 1950-1959</p> <p>Navy diving crew at work ca. 1950</p> <p>Cable marker buoys ca. 1950-1960</p> <p>Navy Electronics Laboratory 1951 July</p> <p>Vented explosions at Coronado 1952 May</p> <p>Bikini Atoll 1952</p> <p>Capricorn Expedition 1952-1953</p> <p>Diamond mining in South Africa ca. 1960-1969</p> <p>Nuclear test sites ca. 1960-1969</p> <p>Rockeater ca. 1960-1969</p> <p>General note</p> <p>Marine diamond prospecting vessel under contract to De Beers.</p>
Box 12, Folder 20 Box 12, Folder 21-23 Box 12, Folder 24-25	<p>Vibracorer ca. 1960-1969</p> <p>Vietnam trips ca. 1960-1969</p> <p>Collected photos for <u>Waves and Beaches</u> 1960-1970</p> <p>General note</p> <p>Photographs collected for potential reproduction in Bascom's book.</p>
Box 12, Folder 26 Box 12, Folder 27 Box 12, Folder 28 Box 12, Folder 29-30 Box 12, Folder 31 Box 12, Folder 32 Box 12, Folder 33 Box 12, Folder 34	<p>Diamonds 1964</p> <p>Collinstar wreckage 1965 May</p> <p>Atomic Energy Commission (AEC) Plowshare Advisory Committee meetings 1965-1970</p> <p>Cosmos Club movie showing 1967 April 4</p> <p>Melville Island 1967</p> <p>Bascom with Robert Marx ca. 1967</p> <p>Pomona barge ca. 1967</p> <p>R/V Wando River ca. 1967</p> <p>General note</p> <p>Carried vibrating corer tool called Horton Sampler onboard.</p>

Photographs

Box 12, Folder 35	Search for sunken 727 aircraft 1969
Box 12, Folder 36	Mining in Thailand ca. 1969
Box 12, Folder 37	Scallop boats 1969-1970, undated
Box 12, Folder 38	Nonsuch 1970
	General note
	Replica of 1650 ketch built by the Hudson's Bay Company to celebrate its 300th anniversary.
Box 12, Folder 39	R/V ALCOA SEAPROBE ca. 1970-1979
Box 12, Folder 40	Oman trip 1971
Box 12, Folder 41	Explorers Club meeting 1977 November 9
Box 12, Folder 42	Bascom receiving Explorers Club medal 1980 May
Box 12, Folder 43	Sea of Marmara sonar charts 1992
Box 12, Folder 44	Sea of Marmara expedition 1993
Box 12, Folder 45	At sea in Mediterranean 1994
Box 13, Folder 1	Arctic research station and landscapes undated
Box 13, Folder 2	Hawaiian Electric Co. Model Std. (C-245) undated
Box 13, Folder 3	Ship crew at work undated
Box 13, Folder 4	Unidentified men posing with items dredged from seafloor (labelled "Treasure Hunt") undated
Box 13, Folder 5	Weapons Effects Buoy System (WEBS) buoys undated

Slides

Box 13, Folder 6	Miscellaneous photos of Bascom ca. 1964-1993
Box 13, Folder 7	Miscellaneous photos people and crew members ca. 1961-1970
Box 13, Folder 8-9	Miscellaneous photos of ships and equipment ca. 1963-1969
Box 13, Folder 10-11	Miscellaneous work at sea 1966-1970
Box 13, Folder 12	CUSS I - Oil drillship contracted for Project Mohole 1959-1964
Box 13, Folder 13	Puerto Rico WHOI survey expedition aboard R/V Vema 1959
Box 13, Folder 14	Project Mohole 1960-1961
Box 13, Folder 15	Capetown coastline 1963
Box 13, Folder 16	Willard Bascom and Ted Chamberlain on Lanai 1964
Box 13, Folder 17	Rockeater 1964-1967
Box 13, Folder 18	Core sampling 1965
Box 13, Folder 19	SEALAB III site survey 1966
Box 13, Folder 20	STIT C-238 1966
Box 13, Folder 21-29	R/V Wando River ca. 1966
Box 13, Folder 30	R/V Oceaneer 1966-1967
Box 13, Folder 31	Bow thruster at Avondale Shipyard 1967
Box 13, Folder 32	OSE vibrating core drill off Newport, Calif. 1968
Box 13, Folder 33	Alaska trip 1969
Box 13, Folder 34	ASPSS 1st drop equipment (Sherwood) 1969
Box 13, Folder 35	Navy parachute tests on beach 1969
Box 13, Folder 36	OSE Director's Lunch 1969
Box 13, Folder 37	Broward County Beach Restoration Project field office 1970
Box 13, Folder 38	Diagrams of submersible corer 1970
Box 13, Folder 39	Ft. Pierce, FL beach 1970
Box 13, Folder 40	Newport vibratory anchors 1971
Box 13, Folder 41	R/V Midwife 1971
Box 13, Folder 42	R/V ALCOA SEAPROBE 1971-1972
Box 13, Folder 43	Ocean Science & Engineering MCLS sea trials 1972
Box 13, Folder 44	MCCB crown block 1973
Box 13, Folder 45	MCCB shipping 1973
Box 13, Folder 46	"Ocean Motion" crane - Unidentified equipment yard and machinery 1973

Box 13, Folder 47
 Box 13, Folder 48
 Box 13, Folder 49
 Box 13, Folder 50
 Box 13, Folder 51
 Box 13, Folder 52
 Box 13, Folder 53
 Box 13, Folder 54
 Box 13, Folder 55

Ocean Science & Engineering MCCB 1973
Black Sea trip 1991
Russian expedition off Crimea 1991
Sea of Marmara trip 1992
Artemision Expedition 1993
Pompano Beach dredge in Florida undated
Measuring L.A. River floodwater undated
Oceanering Vibracorer shop pictures undated
South Africa landscape undated

AUDIOVISUAL MATERIAL

Scope and Content of Series

Series 10) AUDIOVISUAL MATERIAL: Various 16mm films and Hi8 videocassettes detailing Bascom's work. Subjects of note include Project Mohole, underwater archaeology expeditions in the Mediterranean Sea and Black Sea, mineral excavation and research vessels at work.

16mm films

Oversize FS-114

Oceanography ca. 1940-1960

General note

Montage of miscellaneous oceanographic work. Includes footage of Willard and Rhoda Bascom on beach, amphibious vehicles, military beach assault exercises, various equipment and machinery, a man demonstrating beach erosion in simulator, Bascom at work in the arctic and Weapons Effects Buoy System (WEBS) deployment and demonstration. Time 00:32:00, no sound, both color and b/w. Digitized version available upon request.

Access

Original restricted (digital version available).

Oversize FS-104

Air Force Weapons Laboratory Deep Ocean Buoy System ca. 1960

General note

Produced by AF Special Weapons Center at Kirtland Air Force Base Air Force Systems Command. Footage of crew working with buoys in U.S. Naval Construction Battalion Center and deploying buoys at sea. Time 00:05:43, color, no sound. Digitized version available upon request.

Access

Original restricted (digital version available)

Oversize FS-108

Oceanography at Work: Diamonds Under the Sea ca. 1963

General note

Produced by Ocean Science and Engineering Inc. Film about diamond mining in South Africa. Subjects of note include local people, landscapes and scenery, equipment and technology, and diving for gems. Time 00:25:55, color, sound. Digitized version available upon request.

Access

Original restricted (digital version available)

Oversize FS-109

Project Mohole film 1966**General note**

Promotional film discussing Project Mohole. Begins with footage of Willard Bascom as Director of Project Mohole explaining project to NAS personnel, including Jack McClellan (Chief Engineer), Edward Horton (Drilling Engineer), Francois Lampietti (Mining Engineer), Peter Johnson (Naval Architect), and Robert Snider (Oceanographic Engineer). Subjects of the film include include CUSS I, onboard technology, ship controls, test drilling off the coast of Guadalupe Island, pipe installation at sea, geologists examining cores and Bascom at work. Time 00:23:18, color, sound. Digitized version available upon request.

Access

Original restricted (digital version available)

Oversize FS-115

A New Harbor for Cape Town 1967**General note**

Film about OSE ocean floor geophysical survey and coring program in Cape Town Harbor. Time 00:23:30, color, sound. Poor quality audio.

Access

Restrictions apply.

Oversize FS-107

Soundtrack for A New Harbor for Cape Town 1967**General note**

Reel-to-reel sound recording.

Access

Original restricted (digital version available)

Oversize FS-105

Wong Miew Choong Mines, Thailand ca. 1967**General note**

Footage of mineral prospecting operation at Wong Miew Choong Mines in Thailand. Includes some shots of local people, monks at temple, local scenery and wildlife. Time 00:10:00, color, no sound.

Access

Restrictions apply.

Oversize FS-110

Santa Barbara oil spill Pt. I 1969**General note**

Footage of oil spill, cleanup crews and effects on wildlife and environment. Time 00:13:30, color, no sound. Digitized version available upon request.

Access

Original restricted (digital version available)

Oversize FS-111

Santa Barbara oil spill Pt. II 1969**General note**

Time 00:16:00, color, no sound.

Access

Original restricted (digital version available)

Oversize FS-113	<p>R/V ALCOA Seaprobe ca. 1970</p> <p>General note</p> <p>Miscellaneous footage of crew at work, machinery, instrumentation and ship life aboard R/V ALCOA Seaprobe. Time approx. 00:34:00, color, no sound. Digitized version available upon request.</p> <p>Access</p> <p>Original restricted (digital version available)</p>
Oversize FS-106	<p>R/V ALCOA Seaprobe undated</p> <p>General note</p> <p>Created by Q.E.D. Productions, NYC. Narrated film about R/V ALCOA Seaprobe. Includes aerial footage of vessel at sea, interviews with ship engineers, and footage of onboard equipment and drilling operations. Time approx. 00:22:00, color, sound.</p> <p>Access</p> <p>Restrictions apply.</p>
Oversize FS-112	<p>Tomorrow's World Dredger undated</p> <p>General note</p> <p>Footage of crew with dredging machine on beach. Time 00:19:50, color, no sound. Digitized version available upon request.</p> <p>Access</p> <p>Original restricted (digital version available)</p>
Box 13, Folder 56	<p>Hi-8 tapes and digital recordings</p> <p>Turkey Pt. I 1991</p> <p>General note</p> <p>Begins with landscape and scenery. At 00:10:00 Bascom with Izdar Moussa and unidentified Turkish representatives examining maps and discussing proposed underwater archaeology trip. At 00:42:40 Bascom talking about sunken ships and his project entitled "Straight Search" to be conducted in cooperation with Turkish government. At 01:07:00 Bascom discussing sunken ships with unidentified man at ship museum. At 01:30:25 Bascom sitting with unidentified people in room discussing sonar and ROV searching technology for sunken ships. Time 02:03:42. Digitized version available upon request.</p> <p>Access</p> <p>Original restricted (digital version available)</p>
Box 13, Folder 56	<p>Turkey Pt. II 1991</p> <p>General note</p> <p>Bascom discussing "Straight Search" with Turkish representatives. Time 01:58:22.</p> <p>Access</p> <p>Original restricted (digital version available)</p>
Box 13, Folder 56	<p>Black Sea trip 1991</p> <p>General note</p> <p>Footage of underwater camera searching ocean floor for sunken ship with audio commentary from Bascom and others.. At 01:38:25 Bascom finally says "Eureka, we found it!". Time 01:46:31. Digitized version available upon request.</p> <p>Access</p> <p>Original restricted (digital version available)</p>

Box 13, Folder 56

Black Sea Expedition Pt. I 1992

General note

Men prepare underwater camera, Russian crew loads bus with equipment, Bascom in museum looking at artifacts retrieved from shipwrecks, miscellaneous shots of crew at work on boat, Bascom and others discussing ancient Bosphorus in the Black Sea through Russian translator in ship cabin. Time 02:03:49. Digitized version available upon request.

Access

Original restricted (digital version available)

Box 13, Folder 56

Black Sea Expedition Pt. II 1992

General note

Willard Bascom and crew raising Adventurer's Club flag on deck, crew members at work, Willard Bascom conversing with scientists. Includes some cut-away shots to scenery on land. Time 01:55:13. Digitized version available upon request.

Access

Original restricted (digital version available)

Box 13, Folder 56

Genoa and Marmara 1993

General note

Bascom receiving honorary doctoral degree and giving speech at the University of Genoa, Italy on 1993 January 1. At 00:13:30 cuts away to work in the Sea of Marmara. Time 01:03:56. Digitized version available upon request.

Access

Original restricted (digital version available)

Digital_file 1

Brother Jonathan paddle steamer Pt. I 1996

General note

Footage of Delta Oceanographics crew deploying submersible at sea and discussing project to locate and salvage nineteenth-century paddle steamer *Brother Jonathan*. Time 01:03:22.

Digital_file 2

Brother Jonathan paddle steamer Pt. II 1996

General note

Crew retrieves submersible and examines recovered gold coins on ship deck. Time 00:50:26.