
Guide to the Fredric Raichlen Papers, 1932-2014

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California Institute of Technology Archives and Special Collections

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Contributing Institution: California Institute of Technology Archives and Special Collections

Title: Fredric (Fred) Raichlen Papers

Creator: Raichlen, Fredric (Fred) , 1932-2014

Identifier/Call Number: 10290-MS

Physical Description: 45.77 linear feet (88 boxes, 37 reels)

Date (inclusive): 1932-2014

Abstract: Fredric Raichlen, Professor Emeritus of Civil and Mechanical Engineering in Caltech's Division of Engineering and Applied Science taught at Caltech for forty years. Raichlen formally retired from teaching in 2002 but remained active with Caltech colleagues, students and consultants until he passed away in 2014. The Fredric (Fred) Raichlen papers illustrate Raichlen's contributions to the field of coastal engineering research and practice, particularly in the areas of tsunamis, harbor oscillations, ship dynamics, breaking waves, and wave defense of submarine pipelines. The papers consist of reports, research, consultantancy documentation, slides, audiovisual material and photographs.

Language of Material: English .

Conditions Governing Access

The collection is open for research. Researchers must apply in writing for access. Some files are confidential and are currently closed. Researchers may request information about closed files from the Caltech Archives.

Conditions Governing Use

Copyright may not have been assigned to the California Institute of Technology Archives. All requests for permission to publish or quote from manuscripts must be submitted in writing to the Caltech Archives. Permission for publication is given on behalf of the California Institute of Technology Archives as the owner of the physical items and, unless explicitly stated otherwise, is not intended to include or imply permission of the copyright holder, which must also be obtained by the reader.

Biographical / Historical

Fredric (Fred) Raichlen was born in Baltimore, Maryland on October 12, 1932. He attended Johns Hopkins University where he earned a Bachelor of Engineering in 1953 and earned his Master's and Doctoral degrees in 1955 and 1962 from the Massachusetts Institute of Technology. Raichlen also served in the United States Air Force as an Environmental Health Officer from 1956 to 1959. Raichlen came to the California Institute of Technology as an Assistant Professor of Civil Engineering in 1962, promoted to Associate Professor in 1967 and to Professor in 1972. He became one of the founding faculty members of Caltech's doctoral program in Environmental Engineering Science in 1969. He was appointed Professor Emeritus in 2001 however he remained active and worked with colleagues, students and consultants until his last few weeks. Raichlen's research provided major contributions to coastal engineering research and practice, particularly in the areas of tsunamis, harbor oscillations, ship dynamics, breaking waves, and wave defense of submarine pipelines. He was a pioneer in the studies of harbor excitation from long waves and tsunamis. The National Academy of Engineering inducted Fredric Raichlen as a member in 1993. He was a member of numerous other professional organizations including the American Society of Civil Engineers. The American Society of Civil Engineers honored Raichlen with the John G. Moffatt-Frank E. Nichol Harbor and Coastal Engineering Award in 1994 and the International Coastal Engineering Award in 2003.

Immediate Source of Acquisition

The Fredric (Fred) Raichlen papers, slides and audiovisual materials were transferred to the archives from the Keck Laboratory, and donated to the Caltech Archives by the family of Fredric Raichlen in 2014.

Processing Information

This collection was processed by Clarisse Alvarez under the supervision of Mariella Soprano in 2018-2019. Materials were removed from binders, file folders and manila envelopes and were replaced with acid-free folders. The original order of materials was kept when available. Some correspondence were placed in chronological or alphabetical order, depending on the record creator's order. Photographs, slides and film reels were sleeved in appropriate preservation enclosures. Various metal fasteners were removed and replaced with archival plastic clips. Duplicate copies were removed and recycled.

Content Description

The collection covers papers from Fred Raichlen's studies preceding his Bachelor's degree to the end of his career. It is a great source for the history of coastal engineering in Southern California. This is especially found in the papers covering his extensive consulting work.

Arrangement

The Fredric (Fred) Raichlen Papers are divided into four series containing subseries:

Series 1. Biographical Documents and Correspondence is divided into five subseries. Subseries 1: Correspondence, consists of correspondence arranged in alphabetical order and in chronological order. Subseries 2: Professional Organizations, Academies and Award Nominations, consists of papers and correspondence related to the organizations and academies that Fredric (Fred) Raichlen belonged to and award nominations that he and his colleagues received. Subseries 3: Education, consists of papers and reference materials collected while Fredric (Fred) Raichlen completed his education. Subseries 4: Biographical, includes biographical documents.

Series 2. California Institute of Technology is divided into two subseries. Subseries 1: California Institute of Technology Campus and Administration. Subseries 2: Teaching and Student Coursework.

Series 3. Technical Papers, Research and Consultancy Work is divided into five subseries. Subseries 1: Consultancy Work. Subseries 2: Depositions and Cases. Subseries 3: Technical Papers and Research. Subseries 4: Publications and Talks. Subseries 5: Research Proposals.

Series 4. Photographs, Film Reels and Video, Zip Disks is divided into three subseries. Subseries 1: Photographs. Subseries 2: Film Reels and Videos. Subseries 3: Zip Disks.

General

Metadata and detailed information related to audiovisual material is stored in the Raichlen collection electronic file and available upon request. Contact the California Institute of Technology Archives to request additional information.

Subjects and Indexing Terms

Coastal engineering

Environmental engineering

Mechanical engineering

Civil Engineering

Hydrodynamics

Manuscript Collection

Tsunamis

Southern California

California Institute of Technology

Series 1 Biographical Documents and Correspondence

Subseries 1 Correspondence

Correspondence, Alphabetical

box 1, folder 1	Astill Convention 1998 August 7 - 1988 September 14
box 1, folder 2	Briggs, Michael: Corps of Engineers 2007 May 31 - 2007 June 1
box 1, folder 3	Brooks, Norman (Tyler Prize) 1999 July 7 - 2000 March 20
box 1, folder 4	Carta, David (Letter) ca. 1990
box 1, folder 5	Current Invoices 1987 July 6 - 2007 June 27
box 1, folder 6	French, Jon (Closed) 1965 February 25 - 1969 March 28
box 1, folder 7	Goring, Derek (Closed) 1973 December 5 - 1997 July 10
box 1, folder 8	Hammack, Joe (Closed) 1968 September 30 - 2002 February 25
box 1, folder 9	Jarvis, John J. (Georgia Tech) 1994 August 15
box 1, folder 10	John Hopkins University: Brody Letter (Closed) 2003 December 2 - 2003 December 4
box 1, folder 11	Lawrence, Ron: Email including Judy's Azusa Tank Photos 2007 June 19
box 1, folder 12	Lee, Jiin-Jen (Closed) 1966 September 22 - 1981 November 3
box 1, folder 13	Lepelletier, Thierry (Closed) 1975 September 3 - 1982 November 17
box 1, folder 14	Li, Ying (Closed) 1995 September 8 - 2003 May 14
box 1, folder 15	Lillevang, Omar J. (Fund) 1982 December 8 - 2005 November 2
box 1, folder 16	Liu, Phil (Closed) 2003 September 25 - 2003 October 15
box 1, folder 17	Margulis, Steve (Closed) undated
box 1, folder 18	Naheer, Ehud (Closed) 1971 March 22 - 1987 June 10

box 1, folder 19	Ohio State University Research Supplement 2002 December 11 - 2003 May 9
box 1, folder 20	Pacific Weather Analysis 1996 August 25
box 1, folder 21	Petroff, Catherine (Closed) 1986 September 26 - 1996 February 13
box 1, folder 22	Poon, Ying (Everest International Consultants, Inc.: Port of Long Beach) 2000 April 4 - 2000 April 6
box 2, folder 1	Raichlen, Fredric: Bulletin Board 1966 January 7 - 1973
box 2, folder 2	Ramsden, Jerald (Closed) 1986 December 15 - 1997 January 31
box 2, folder 3	Robie & Matthai, A Professional Corporation 2001 December 13 - 2001 December 14
box 2, folder 4	Skjelbreia, Jim (Closed) 1979 December 15 - 1991 August 2
box 2, folder 5	Skjelbreia, Jim 1982 April - 1985 October 10
box 2, folder 6	Synolakis, Costas (Closed) 1983 March 28 - 1986 June 2
box 3, folder 1	Synolakis, Costas: Emails (Closed) 2000 August 7 - 2006 June 27
box 3, folder 2	Ting, Francis (Closed) 1982 August 27 - 1998 September 1
box 3, folder 3	Tsunami Bulletin Board (1) 1992 December 15 - 2001 June 25
box 3, folder 4	Tsunami Bulletin Board (2) 1992 December 15 - 2001 June 25
box 3, folder 5	Tsunami Workshop Information (Lake Arrowhead) 1974 January 30 - 1974 October 16
box 4, folder 1	Watts, Philip (Closed) 1991 October 15 - 2002 July 22
box 4, folder 2	Zelt, Jeff (Closed) 1981 June 21 - 1993 August 24 Correspondence, Chronological
box 4, folder 3	Correspondence: 1961 to 1962 1961 August 18 - 1961 December 29
box 4, folder 4	Correspondence: 1962 to 1963 1962 January 12 - 1962 November 28
box 4, folder 5	Correspondence: 1963 to 1964 1963 January 7 - 1963 December 12
box 4, folder 6	Correspondence: 1964 to 1965 1964 January 27 - 1964 December 8
box 4, folder 7	Correspondence: 1965 to 1966 1965 January 12 - 1965 December 30
box 4, folder 8	Correspondence: 1966 to 1967 1966 January 4 - 1966 December 12
box 4, folder 9	Correspondence: 1967 to 1968 1967 January 7 - 1967 August 24
box 4, folder 10	Correspondence: 1968 to 1969 ca. 1968 - 1969
box 5, folder 1	Correspondence: 1969 ca. 1969
box 5, folder 2	Correspondence: 1969 to 1970 1969 February 12 - 1969 June 18
box 5, folder 3	Correspondence: 1970 1970 January 23 - 1970 December 28
box 5, folder 4	Correspondence: 1971 1970 November 4 - 1971 December 30
box 5, folder 5	Correspondence: 1972 1972 January 29 - 1972 December 4
box 5, folder 6	Correspondence: 1973 ca. 1973
box 5, folder 7	Correspondence: 1974 1974 January 1 - 1974 December 26
box 5, folder 8	Correspondence: 1975 1975 January 3 - 1975 December 19
box 6, folder 1	Correspondence: 1976 1976 April 23 - 1977 January 7
box 6, folder 2	Correspondence: 1977 1977 January 5 - 1978 January 7
box 6, folder 3	Correspondence: 1978 1978 February 14 - 1978 December 20
box 6, folder 4	Correspondence: 1978 to 1984 1978 January 10 - 1978 November 1
box 6, folder 5	Correspondence: 1980 ca. 1980
box 6, folder 6	Correspondence: 1981 1980 January 2 - 1981 November 6
box 6, folder 7	Correspondence: 1982 1981 December 9 - 1981 December 20

Subseries 2 Professional Organizations, Academies and Award Nominations

box 6, folder 8	Civil Engineering Examination 1967 November
box 6, folder 9	State of California Professional Engineer Registration 1967 December 12 - 2011 June 30
box 6, folder 10	State of New Jersey Professional Engineer Registration 1972 February 15 - 2016 April 30
box 6, folder 11	American Society of Civil Engineers (ASCE) Fellow Appointment 1983 October 20 - 1984 September 10
box 6, folder 12	National Academy of Engineering (NAE) Annual Meeting and Election Correspondence 1991 September 21 - 1994 October 13
box 7, folder 1	Chakrabati, Subrata: National Academy of Engineering (NAE) Nomination (Closed) 1993 March 31 - 1995 March 22

box 7, folder 2	John G. Moffatt-Frank E. Nichol Harbor and Coastal Engineering Award 1994 April 19 - 1995 January 3
box 7, folder 3	National Academy of Engineering (NAE) Nominations and Correspondence (Closed) 1994 July 14 - 2002 April 4
box 7, folder 4	Network for Earthquake Engineering Simulation (NEES) 2000 January 13 - 2000 February 10
box 7, folder 5	National Science Foundation (NSF) Network for Earthquake Engineering Simulation (NEES) Meeting 2000 February 3 - 2000 February 22
box 7, folder 6	National Academy of Engineering (NAE) Section 4 Information 2001 February 1 - 2003 July 15
box 7, folder 7	Professional Nominations (Closed) 2001 February 22 - 2003 July 8
box 7, folder 8	National Academy of Engineering (NAE) Peer Committee (Closed) 2002 September 30 - 2003 February 11
box 7, folder 9	Imberger, Jorg: National Academy of Engineering (NAE) Nomination (Closed) 2003 February 26 - 2004 May 6
box 7, folder 10	National Academy of Engineering (NAE) Peer Committee (Closed) 2003 April 22 - 2004 May 21
box 7, folder 11	National Academy of Engineering (NAE) Peer Committee (Closed) 2003 May 8 - 2003 May 23
box 7, folder 12	National Academy of Engineering (NAE) Meeting 2003 August 16 - 2003 December 8
box 7, folder 13	National Academy of Engineering (NAE) Peer Committee Nominations (Closed) 2004 May 6 - 2006
box 7, folder 14	Tony Dalrymple: National Academy of Engineering (NAE) Nomination (Closed) 2004 May 7 - 2004 May 18
box 7, folder 15	Chapman Award 2007 May 3 - 2007 May 6

Subseries 3 Education

box 8, folder 1	Massachusetts Institute of Technology (MIT) Lecture 1940 September 30 - 1949 February 24
box 8, folder 2	Civil Engineering: Strength of Materials & Theory of Structures (1) 1951 February 12 - 1952 January 28
box 8, folder 3	Civil Engineering: Strength of Materials & Theory of Structures (2) 1951 February 12 - 1952 January 28
box 8, folder 4	Hydraulic Machinery 1951
box 8, folder 5	Regulation of Hydro-Electric Plants: Hydraulic Transients 1952
box 8, folder 6	Hydraulics 1952
box 9, folder 1	Structural Design 1952 November 29
box 9, folder 2	Structural Design 1952 - 1953
box 9, folder 3	Sanitary Engineering 1953
box 9, folder 4	Advanced Calculus for Engineering 1953 September 22 - 1954 January 29
box 9, folder 5	Water Power Engineering 1954
box 9, folder 6	Advanced Calculus for Engineers 1954
box 10, folder 1	Rivers & Harbors 1955
box 10, folder 2	Massachusetts Institute of Technology (MIT) Thesis: Some Studies of Turbulence in the Wake of a Cylinder 1955 May 23
box 10, folder 3	Structures 1958 September 12 - 1959 January 12
box 10, folder 4	Acoustics 1959
box 10, folder 5	Problems 1959
box 10, folder 6	Shear Strength & Slope Stability (R.V. Whitman) 1959 August
box 10, folder 7	Experimental Hydromechanics ca. 1959-1960
box 11, folder 1	Methods of Applied Math ca. 1960
box 11, folder 2	Massachusetts Institute of Technology (MIT) Thesis: Theoretical and Experimental Study of Wave Induced Oscillations in Harbors of Simple Planform 1962 January 15
box 11, folder 3	Course AM 152 ca. 1964
box 11, folder 4	Computation of Water Hammer Pressures undated
box 11, folder 5	Design of a Penstock Anchorage undated

box 11, folder 6	Design of a Low Pressure Intake undated
box 11, folder 7	Dynamics Problems from Mechanical Vibrations by Thompson undated
box 11, folder 8	Estimating Dimensions of Powerhouse Generator Floor and Substructure undated
box 11, folder 8	Free Surface Flow undated
box 11, folder 9	Hydraulic Structure: Restricted Orifice Surge Tank undated
box 12, folder 1	Morning Glory Spillway Design undated
box 12, folder 2	Power Routing Study undated
box 12, folder 3	Special Problems undated
box 12, folder 4	Statistical Study of Precipitation and Runoff Data for Determination of Dependable Power undated
box 12, folder 5	Toebes, G.H. undated

Subseries 4 Biographical

box 12, folder 6	Personal Photos and Correspondence: Fredric Raichlen 1980 - 1986 October
box 12, folder 7	Fredric Raichlen: Curriculum Vitae 2002 September 16
	Physical Description: 1 linear feet

Series 2 California Institute of Technology

Subseries 1 California Institute of Technology Campus and Administration

box 12, folder 8	Hydrodynamics Laboratory (Operating Under United States Navy Contract NORD 9612) 1940
box 12, folder 9	The High Speed Water Tunnel at the California Institute of Technology (Office of Scientific Research and Development National Defense Research Committee: Division C, Section C- 4) 1942 June 29
box 12, folder 10	Azusa Facility Site and Floor Plans; Inspection Correspondence 1949 April 21 - 1982 July 6
box 12, folder 11	Flume Pump Research 1952 August 6 - 1963 October 17
box 12, folder 12	Flume Maintenance and Hydraulic Power Supply 1959 August 11 - 1988 May 31
box 13, folder 1	Flume Memos 1960 July 19 - 1962 November 6
box 13, folder 2	Tilting Flume Proposal 1960 December 27 - 1963 December 12
box 13, folder 3	Flume Instrumentation Information 1962 August 3 - 1964 June 16
box 13, folder 4	Haskell Bed Profiler 1962 August 13 - 1978 February 3
box 13, folder 5	Wind Tunnel 1962 August 22 - 1963 February 15
box 13, folder 6	Pump Dimension Information 1963 March 11 - 1963 May 7
box 13, folder 7	Flume Heating 1963 May 16 - 1963 June 11
box 13, folder 8	Flume Report 1964 October 10 - 1965 January 4
box 13, folder 9	Wave Staff 1965 June 23 - 1965 July 2
box 13, folder 10	Tsunami Study Wave Tank Design Estimate Proposal 1966 December 20 - 1967 April 7
box 13, folder 11	Tsunami Project Equipment Design 1968 June 27 - 1969 February 14
box 13, folder 12	Tsunami Wave Generator Information 1968 October 25 - 1976 March 11
box 14, folder 1	Data Acquisition Systems (DDS 1103 Series) 1969
box 14, folder 2	A Data Acquisition System (DDA 1103 Model D) 1969
box 14, folder 3	Digital Data Systems (Juilfs, Don) 1969 April 16 - 1972 May 11
box 14, folder 4	Description and Operation of Analog To Digital Data Acquisition System 1969 November 5 - 1974 July
box 14, folder 5	High Velocity Flow Flumes and Correspondence with Daly, Elton F. 1970 January 5 - 1970 April 20
box 14, folder 6	Kerckhoff Marine Lab (Days 2 and 3: Mariner 6) 1970 July - 1976 February 27
box 83, folder 1	Print: High Velocity Flume 1971 September 21

Arrangement

These materials are stored out of order in an oversize storage box.

box 83, folder 2	Azusa Wave Tank Bottom Survey 1972 March 19 - 1973 July 25 Arrangement These materials are stored out of order in an oversize storage box.
box 14, folder 7	Azusa Wave Tank Design 1972 June 27 - 1977 June 16
box 14, folder 8	Caltech Computer Lab Historical Files 1979 June 22 - 1981 January 20
box 15, folder 1	Azusa Property Save and Move, Keck Modifications, and Tank 1985 June 12 - 2000 May 5
box 15, folder 2	Planning for Caltech's Division of Engineering and Applied Science 1985 June 20
box 15, folder 3	Ditch Day 1992 May 13
box 15, folder 4	Flume Caliber 1993 April - 1997 January
box 15, folder 5	Superscope Data Acquisition System 1993 October 26 - 1994 January 7
box 15, folder 6	New Mellon Proposed Budget 1994 July 1 - 1997 June 30
box 15, folder 7	Glass Window (Flume 1999) 1995 October 4 - 1995 December 14
box 15, folder 8	Budget Status (Closed) 1996 March 14 - 2004 April 22
box 15, folder 9	Bookstore I 1996 May 9 - 1996 June 17
box 16, folder 1	Documents and Correspondence (re:Caltech Bookstore) 1996 May 26 - 1997 October 13
box 16, folder 2	Bookstore II 1996 May 28 - 1996 June 13
box 16, folder 3	Bookstore Business Plan, Bookstore Reports and Correspondence 1996 June 3 - 1997 April 22
box 16, folder 4	Bookstore III 1996 June 20 - 1996 July 25
box 16, folder 5	Bookstore IV 1996 June 20 - 1996 June 27
box 16, folder 6	The Future of Civil Engineering at Caltech 2001 July 17
box 16, folder 7	National Academy of Sciences Travel Expense Report (NRC Travel) 2002 July 30 - 2002 October 21
box 16, folder 8	University of Southern California (USC) Contract Information 2004 July 20 - 2005 January 6
box 16, folder 9	Job Environment (Computer Program) undated

Subseries 2 Teaching and Student Coursework

box 17, folder 1	HY 113b Forces on Structures 1967 February 22 - 2003 February 19
box 17, folder 2	Wave Diffraction Around Islands (Gartrell, Gregory, Jr.) 1974 May 31
box 17, folder 3	A Theoretical Study on the Hydrodynamic Forces on a Large Dock Near Fixed Boundaries (Lepelletier, Thierry) 1977 May
box 17, folder 4	A History of Beach Development in the Santa Monica and Venice Areas with Increased Shoreline Development 1977 May
box 17, folder 5	Beach Experiments Figures 1977 September 20
box 17, folder 6	Tsunami at Hilo, Hawaii (Tam, Clement) 1979 August
box 17, folder 7	Tsunamis Records of Hilo Harbor: Data Processing Report 1979 August
box 17, folder 8	Hilo Harbor Modeling and Tsunamis Energy Spectrum Analysis 1979 August 27
box 17, folder 9	Wave Current Experiments (Brownlie, William) 1980 February 25 - 1984 Septmeber 18
box 18, folder 1	The Delta Series: Computer Modeling of River Delta Growth (Izzo, Dominic) 1980 May
box 18, folder 2	Advanced Hydraulics Laboratory: Beach Profile and Onshore / Offshore Sand Transport by Swell and Storm Waves (Ting, C.K.F.) 1987
box 18, folder 3	Experiment (E-5) 1992 December 15 - 1993 February 3
box 18, folder 4	Comments from Course ME10 2000 - 2001
box 18, folder 5	Kinetic Jets Project: Structural Engineering undated
box 18, folder 6	Naheer, Ehud: Thesis undated
box 18, folder 7	One-Dimensional Response of Basins & Harbors of Variable Depth (Naheer, Ehud) undated
box 18, folder 8	Translation (McNown, John Stevenson) undated

Series 3 Technical Papers, Research and Consultancy Work

Subseries 1 Consultancy Work

box 18, folder 9	The Silting of Reservoirs and Scour Prevention 1935
box 19, folder 1	Report on Development of a Centrifugal Type Sediment Separator, By Means of Models 1938 January 4
box 19, folder 2	A Method of Measuring High Velocity Flow in Open Channels (Rouse, Hunter) 1939 February 15
box 19, folder 3	The Glenn L. Martin Company Seaplane Model Report No. E.R. 4022 1940
box 19, folder 4	Results of Research Concerning the Origin of Long Period Movements Observed in Seaports (Laurent, Jean) 1952 December 22
box 19, folder 5	Laboratory Methods of Generating Irregular Waves, The Principal Statistical Criteria of Which Agrees with Those of Actual Waves (Laurent, Jean and Miche, Robert) 1953 January 19
box 19, folder 6	River and Harbor Improvement Design Memorandum Number 1: General Design for Playa Del Rey Inlet and Harbor, Venice, California (United States Army Corps of Engineers) 1956 November
box 19, folder 7	Water Hammer Tests: Long Beach Pumping Plant 1964 August 27
box 19, folder 8	Wave Machines, Moffatt & Nichol (Ewa Marina) 1975 June 17 - 1991 April 22
box 19, folder 9	The Gulf Oil Company Pipeline: Oil Slick Transport (Prepared by Raichlen, F. and Lee, Jiin-Jen for Daniel, Mann, Johnson & Mendenhall, Inc. and Allan Hancock Foundation) 1976 October
box 19, folder 10	Anchor Co & K: Analysis and Experiments 1978 January 12 - 1978 March 20
box 20, folder 1	Monterey Bay Outfall (1) 1978 September - 1983 October 2
box 20, folder 2	Monterey Bay Outfall (2) 1978 September - 1983 October 2
box 20, folder 3	Larkspur Ferry Protection Scheme (Prepared for Moffatt & Nichol Engineers) 1981 October
box 20, folder 4	Dare City Outfall 1981 October 27 - 1981 October
box 20, folder 5	Wave Power Industries (1) 1983 January 16 - 1984 April 6
box 20, folder 6	Wave Power Industries (2) 1983 January 16 - 1984 April 6
box 21, folder 1	Wave Power Book 2 1984 February 12 - 1985 May 9
box 21, folder 2	Encina Outfall: May to June 1985 (1) 1984 May 15 - 1985 June 17
box 21, folder 3	Encina Outfall: May to June 1985 (2) 1984 May 15 - 1985 June 17
box 21, folder 4	Encina Outfall Model (June 1985) 1985 April 24 - 1985 June 27
box 21, folder 5	San Elijo Ocean Outfall Inspection Report (Encina Outfall Project) 1992 January 22
box 21, folder 6	Pump Intake: Coldwater Creek (1) 1985 February 14 - 1985 June 27
box 21, folder 7	Pump Intake: Coldwater Creek (2) 1985 February 14 - 1985 June 27
box 22, folder 1	Adamo-Rupp Review 1986 June 12 - 1986 July 24
box 22, folder 2	Breakwater: Hammond, Indiana 1988 September 2 - 1988 November 5
box 22, folder 3	Buffalo Harbor: B35C-C35B (1) 1986 May 6 - 1988 October 14
box 22, folder 4	Buffalo Harbor: B35C-C35B (2) 1986 May 6 - 1988 October 14
box 22, folder 5	Buffalo Harbor: A35A-B35B (1) 1988 September 29 - 1988 October 11
box 22, folder 6	Buffalo Harbor: A35A-B35B (2) 1988 September 29 - 1988 October 11
box 23, folder 1	Los Angeles Harbor Outfall 1988 December 14
box 23, folder 2	Menlo Park 1989 September 27 - 1989 November 7
box 23, folder 3	Tijuana Outfall 1990 January 30 - 1990 February 20
box 23, folder 4	Miscellaneous Consultancy Documents 1990 February 11 - 1990 February 16
box 23, folder 5	Conti 1990 December 20 - 1991 January 25
box 23, folder 6	Batam Island Project 1991 November 26 - 1991 December 21
box 23, folder 7	Encina Re-Rocking 1992 January 8 - 1992 August 4
box 23, folder 8	Hyperion Outfall 1992 February 26 - 2007 June 12
box 24, folder 1	Oceanside Outfall (1) 1992 August 21 - 1992 September 7
box 24, folder 2	Oceanside Outfall (2) 1992 August 21 - 1992 September 7
box 24, folder 3	South Bay Tunnel Outfall Model Tests 1992 March 3 - August 16
box 24, folder 4	South Bay Ocean Outfall (SBOO) 1994 March 8 - October 24
box 25, folder 1	Refraction: South Bay Ocean Outfall (SBOO) (1) 1994 March 11 - 14
box 25, folder 2	Refraction: South Bay Ocean Outfall (SBOO) (2) 1994 March 11 - 14
box 25, folder 3	Refraction: South Bay Ocean Outfall (SBOO) (3) 1994 March 11 - 14

box 25, folder 4	Refraction: South Bay Ocean Outfall (SBOO) II 1994 March 14
box 25, folder 5	Wave Protection Aspects of the International Boundary and Water Commission's South Bay Tunnel Outfall 1994 May
box 26, folder 1	Gary, Indiana 1995 October 24 - December 19
box 26, folder 2	St. Thomas 1996 January 22 - 1998 March 27
box 26, folder 3	A-Jacks Armor Unit 1997 June 2 - 1999 February 7
box 26, folder 4	Guam Seawall (Closed) 1997 December 5 - 1998 January 19
box 26, folder 5	Titanic 1997 December 8 - 23
box 26, folder 6	San Clemente 1998 May 15 - 1998 June 9
box 27, folder 1	Palos Verdes 1998 November 11 - 1999 February 10
box 27, folder 2	City of Rancho Palos Verde 1998 November 23 - 1999 June 29
box 27, folder 3	Monterey Bay Outfall Stability Assessment: Final Report 1998 July
box 27, folder 4	Geotechnical Report, Storm Drain Outfall Shaft and Outlet Structure: Rancho Palos Verdes, California 1999 April 2
box 27, folder 5	Monterey Outfall Review 1999 June 24 - 1999 July 18
box 28, folder 1	A-Jacks Transmission 1999 October 3 - 1999 October 25
box 28, folder 2	Tuxpan, Mexico Outfall (Luciano) 2000 August
box 28, folder 3	Samoa Review 2003 April 21 - 2009 August 27
box 28, folder 4	CH2M HILL Industrial Design & Construction, Inc.: Mexico Port (Closed) 2004 August 5 - 2005 June 21
box 28, folder 5	Samoa Township 2006 January 23 - 2007 January 26
box 28, folder 6	Consulting Agreement with the RETEC Group 2007 February 1
box 28, folder 7	Experimental Beach Profiles undated
box 28, folder 8	Howard's Solution undated
box 28, folder 9	Some Historical Tsunami Data undated
box 29, folder 1	Consultancy Work, Avalon Seawater
box 29, folder 2	Avalon Seawater (1) 1993 December 17 - 1994 February 25
box 29, folder 3	Avalon Seawater (2) 1993 December 17 - 1994 February 25
	Model Study of the Avalon Seawall at Avalon, California (Prepared for Moffatt & Nichol Engineers) 1994 March
	Consultancy Work, Basin Electric Power Cooperative
box 29, folder 4	Model Tests for the Cooling Water Forebay of the Antelope Valley Station Unit 1 of the Basin Electric Cooperative (Prepared for Byron Jackson Pump Division, Borg-Warner Corporation) 1979 January
box 29, folder 5	Model Tests of Raw Water Pump Well for the Basin Electric Power Cooperative (Prepared for Byron Jackson Pump Division, Borg-Warner Corporation) 1979 September
box 29, folder 6	Additional Model Tests of Raw Water Pump Well for the Basin Electric Power Cooperative (Prepared for Byron Jackson Pump Division) 1980 February
	Consultancy Work, Diablo Canyon
box 30, folder 1	Pacific Weather Analysis Diablo Hindcasts (1) 1940 January 23 - 1982 March 27
box 30, folder 2	Pacific Weather Analysis Diablo Hindcasts (2) 1940 January 23 - 1982 March 27
box 30, folder 3	A Model Study of the Breakwater for the Diablo Canyon Site of the Pacific Gas and Electric Company Nuclear Power Plant 1969 August 18
box 84, object 1	Models for Diablo Canyon 1969
	Arrangement
	These models are stored out of order in a small storage box.
box 31, folder 1	General Model Considerations: Refractions (1) 1975 February 13 - 1981 November 2
box 31, folder 2	General Model Considerations: Refractions (2) 1975 February 13 - 1981 November 2
box 31, folder 3	General Model Considerations: Refractions (3) 1975 February 13 - 1981 November 2
box 32, folder 1	Diablo Canyon Wave Information Changes (1) 1977 October - 1986 October 10
box 32, folder 2	Diablo Canyon Wave Information Changes (2) 1977 October - 1986 October 10
box 32, folder 3	Diablo Canyon 1981 Shoal Model: Intake Model 1981 March 23 - 1981 June 24

box 33, folder 1	Diablo Canyon Wave Information 1981: Laboratory (1) 1981 June 15 - 1982 March 24
box 33, folder 2	Diablo Canyon Wave Information 1981: Laboratory (2) 1981 June 15 - 1982 March 24
box 33, folder 3	Diablo Canyon Data Phase I (1) 1981 October 3 - 1981 October 13
box 33, folder 4	Diablo Canyon Data Phase I (2) 1981 October 3 - 1981 October 13
box 34, folder 1	Diablo Canyon 3D Model Information: Data Phase II (1) 1981 October 6 - 1982 June 11
box 34, folder 2	Diablo Canyon 3D Model Information: Data Phase II (2) 1981 October 6 - 1982 June 11
box 34, folder 3	Pacific Weather Analysis Diablo Hindcasts: Book II (1) 1982 February 3
box 34, folder 4	Pacific Weather Analysis Diablo Hindcasts: Book II (2) 1982 February 3
box 34, folder 5	Pacific Weather Analysis Diablo Hindcasts: Book II (3) 1982 February 3
box 34, folder 6	Diablo Canyon: Bechtel (1) 1982 May 24 - 1982 July 1
box 35, folder 1	Diablo Canyon: Bechtel (2) 1982 May 24 - 1982 July 1
box 35, folder 2	Report on Wave Climatology for Diablo Canyon, California 1982 June
box 35, folder 3	Diablo Canyon Bechtel Data 1982 September 14 - 1982 September 25
box 35, folder 4	Extremal Analysis of the Wave Hindcasts for the Diablo Canyon Area, California (Dr. Resio, Don) 1982 December
box 35, folder 5	The Investigation of Wave-Structure Interaction for the Cooling Water Intake Structure of the Diablo Canyon Nuclear Power Plant (Prepared for Pacific Gas and Electric Company) 1982 December
box 35, folder 6	Hydraulic Model Study of Diablo Canyon Intake Structure Test Results: Ingestion Studies 1983 January
box 35, folder 7	Diablo Reflection Coefficient 1983 January 19 - 1988 April 27
box 35, folder 8	Pacific Gas & Electric Company Reports 1983 January 19
box 36, folder 1	Winter at Diablo Canyon Site 1983 July 1
box 36, folder 2	Ponding 1984 May
box 36, folder 3	Diablo Canyon Rib Study 1985 April 29 - 1986 April 15
box 36, folder 4	Ponding Analysis 1986 April 1 - 1986 August 12
box 36, folder 5	Diablo Canyon Pressures (1) 1996 February 29 - 1997 April 1
box 36, folder 6	Diablo Canyon Pressures (2) 1996 February 29 - 1997 April 1
box 36, folder 7	Diablo Pressures: Bechtel 1996 September 25 - 1997 March 19
box 36, folder 8	Diablo Pressures Calculations and Reports 1997 February 11 - 1997 March 3
box 37, folder 1	Diablo Canyon Ponding (1) undated
box 37, folder 2	Diablo Canyon Ponding (2) undated
box 37, folder 3	Diablo Canyon Ponding (3) undated
	Consultancy Work, Disney
box 37, folder 4	S.W.O.O.P. 1979 August 30 - 1980 January 21
box 37, folder 5	Disney, Wind: Honey, I Shrunk the Kids (1) 1987 October 7 - 1989 December 28
box 37, folder 6	Disney, Wind: Honey, I Shrunk the Kids (2) 1987 October 7 - 1989 December 28
box 38, folder 1	Disney Wave Generator (1) 1987 November 4 - 1988 April 6
box 38, folder 2	Disney Wave Generator (2) 1987 November 4 - 1988 April 6
box 38, folder 3	Walt Disney Imagineering: Tests of WaveTek Wave Generator 1988 January 24
box 38, folder 4	Walt Disney Imagineering: Parsons (Moffatt Nichol Review) 1989 January 9 - 1989 May 9
box 83, folder 3	Disney Honey I Shrunk the Kids Grass Plant Wind Tunnel Data 1989 December 13 - 1989 December 22
	Arrangement
	These materials are stored out of order in an oversize storage box.
box 38, folder 5	Disney Honey I Shrunk, etc. (1) 1990 January
box 38, folder 6	Disney Honey I Shrunk, etc. (2) 1990 January
box 39, folder 1	Disney Honey I Shrunk the Kids (Forces on the Grass Plants for the Honey I Shrunk the Kids Playground) 1990 January
box 39, folder 2	Disney Water Effect 1992 November 24 - 1993 August 13
box 39, folder 3	Disney Water Display: Stationary Breaking Waves 1993 September
box 39, folder 4	Disney (1995) 1995 May 24

box 39, folder 5	Disney Water Park Wind Tunnel Tests 1996 February 20 - April 17
box 39, folder 6	Disney Raft Ride 1996 August 26 - 1996 September 9
box 39, folder 7	Disney Oblique Wave (September 1996) 1996 September 3 - 1997 July 16
box 39, folder 8	Walt Disney Imagineering Oblique Plate (1) 1996 November 20 - 1997 May 9
box 40, folder 1	Walt Disney Imagineering Oblique Plate (2) 1996 November 20 - 1997 May 9
box 40, folder 2	Disney Tapes: Reference Notes 1997 April 11
	Consultancy Work, Federal Emergency Management Agency
box 40, folder 3	Post, Buckley, Schuh & Jernigan, Inc.: Center for Coastal Studies Solicitation 2001 January 26
box 40, folder 4	Post, Buckley, Schuh & Jernigan, Inc. and Federal Emergency Management Agency (FEMA) Contract 2008 July 3
box 40, folder 5	CDM Federal Programs Corporation and Federal Emergency Management Agency (FEMA) 2009 March 13 - 2009 March 23
	Consultancy Work, Foster City Levees
box 40, folder 6	Bob Born Data (August 1987) 1987 June - 1987 August
box 40, folder 7	Foster City Levees (1) 1987 July 15 - 1988 March 22
box 40, folder 8	Foster City Levees (2) 1987 July 15 - 1988 March 22
box 41, folder 1	Preliminary Report on Analysis of Foster City Levees 1987 October 2
box 41, folder 2	Preliminary Report on Analysis of Foster City Levees 1987 October 8
box 41, folder 3	Report on Analysis of Foster City Levees 1987 December 15
box 41, folder 4	Report on Analysis of Foster City Levees 1988 June 15
box 41, folder 5	Finding of Federal Emergency Management Agency 1988 October 26
box 42, folder 1	Comments on Findings of FEMA of October 8, 1988 (re: Foster City Levees) 1988 November 3
box 42, folder 2	Foster City: Additional (December 1988) 1988 December 7 - 1988 December 10
box 42, folder 3	Born Information: Fallbrook 1990 July 27 - 1991 November 6
box 42, folder 4	Born Valve Tests 1991 June 27 - 1992 January 16
box 42, folder 5	Born Field Tests (1) 1991 July 12 - 1992 April 3
box 42, folder 6	Born Field Tests (2) 1991 July 12 - 1992 April 3
box 42, folder 7	Born Exhibits 1992 February 4 - 1992 March 8
	Consultancy Work, Island Esther
box 43, folder 1	Island Esther Model Study 1966 June 17 - 1966 August 7
box 43, folder 2	Standard Oil Study: Island Esther 1966 August 6
box 43, folder 3	Laboratory Study of Wave Run-Up on Island Esther 1966 August 11
	Consultancy Work, Mendocino
box 43, folder 4	Mendocino Breakwater: General 1972 May 30 - 1973 March 18
box 43, folder 5	Construction Notes: 3-D Model Mendocino Power Plant 1972-1973
box 43, folder 6	Surveying Information and Contours as Built 1972 September 18 - 1973 January 15
	Consultancy Work, Metal Bellows Corporation
box 44, folder 1	Metal Bellows 1972 January - 1977 September 15
box 44, folder 2	Pulsation Damping for the Chemical and Volume Control System of the Catawba Nuclear System (Prepared for Metal Bellows Corporation) 1977 October
box 44, folder 3	Model Construction Report: Rough Draft undated
	Consultancy Work, Metropolitan Water District (MWD)
box 44, folder 4	Metropolitan Water District (MWD) Study, A50 Series (1) 1964 April 14 - 1966 April 15
box 44, folder 5	Metropolitan Water District (MWD) Study, A50 Series (2) 1964 April 14 - 1966 April 15
box 44, folder 6	Harbor Boat no. 3: Marina Del Rey 1965 October 21 - 1968 June 3
box 45, folder 1	Metropolitan Water District (MWD) Bolsa Island Study Preliminary and Estimates 1965 December 7 - 1966 February 2
box 45, folder 2	Experimental Data: Metropolitan Water District (MWD) Island (1) 1966 March 1 - 1966 April 5
box 45, folder 3	Experimental Data: Metropolitan Water District (MWD) Island (2) 1966 March 1 - 1966 April 5
box 45, folder 4	Metropolitan Water District Island Study: Summary Information 1966 June 3 - 1966 June 29
box 45, folder 5	Bolsa Island Nuclear Power & Desalting Plant 1968 December 20

box 46, folder 1	Association of Metropolitan Water Agencies Refraction 1994 April 9
box 46, folder 2	Association of Metropolitan Water Agencies 1994 April 24 - 1994 May 2
box 46, folder 3	Metropolitan Water District Floating Breakwater 2003 June 26 - 2004 January 12
box 46, folder 4	Metropolitan Water District Marina Problem 2003 November 5 - 2004 March 23 Consultancy Work, Naval Civil Engineering Laboratory (NCEL) and Naval Construction Battalion Center
box 46, folder 5	Office of Naval Research (ONR): Breaking Waves (1) 1959 December 31 - 1996 August 20
box 47, folder 1	Office of Naval Research (ONR): Breaking Waves (2) 1959 December 31 - 1996 August 20
box 47, folder 2	Design Information for Wave Machine and Basin 1963 June 30 - 1965 June 15
box 47, folder 3	Naval Civil Engineering Laboratory (NCEL) Review 1973 March 14 - 1976 April 22
box 47, folder 4	Naval Civil Engineering Laboratory (NCEL) Floating Breakwater (1) 1976 September 17 - 1977 February 3
box 47, folder 5	Naval Civil Engineering Laboratory (NCEL) Floating Breakwater (2) 1976 September 17 - 1977 February 3
box 47, folder 6	Hydrodynamic Analysis of the Tethered Float Breakwater (Prepared for the Civil Engineering Laboratory, Naval Construction Battalion Center) 1976 December
box 47, folder 8	Hydrodynamic Analysis of the Tethered Float Breakwater (Prepared for the Civil Engineering Laboratory, Naval Construction Battalion Center: Not For Public Release) 1976 December
box 47, folder 9	The Behavior of an Inclined Pontoon Breakwater in Water Waves 1978 May
box 48, folder 1	Naval Civil Engineering Laboratory (NCEL) Floating Breakwater, Book 2 (1) 1978 June 23 - 1978 September 25
box 48, folder 2	Naval Civil Engineering Laboratory (NCEL) Floating Breakwater, Book 2 (2) 1978 June 23 - 1978 September 25
box 48, folder 3	Naval Civil Engineering Laboratory (NCEL) Floating Breakwater, Book 3 (1) 1978 December 27 - 1979 October 15
box 48, folder 4	Naval Civil Engineering Laboratory (NCEL) Floating Breakwater, Book 3 (2) 1978 December 27 - 1979 October 15
box 48, folder 5	Naval Civil Engineering Laboratory (NCEL) Floating Breakwater, Book 4 1980 April 14 - 1980 June 28
box 48, folder 6	Some Experiments Dealing with the Interaction of Currents and Waves (By Raichlen, Fredric and Lee, Jiin-Jen for Naval Construction Battalion Center) 1982 October
box 49, folder 1	The Interaction of Solitary Waves with Currents (By Raichlen, Fredric and Lee, Jiin-Jen for Naval Construction Battalion Center) 1983 March
box 49, folder 2	PMB-Naval Civil Engineering Laboratory (NCEL) Report 1989 July
box 49, folder 3	Naval Civil Engineering Laboratory (NCEL) Study (1) 1990 January 21 - 1990 February 6
box 49, folder 4	Naval Civil Engineering Laboratory (NCEL) Study (2) 1990 January 21 - 1990 February 6
box 49, folder 5	Naval Civil Engineering Laboratory (NCEL) Study, Book #2 (1) 1990 February 15 - 1990 April 16
box 49, folder 6	Naval Civil Engineering Laboratory (NCEL) Study, Book #2 (2) 1990 February 15 - 1990 April 16
box 49, folder 7	Naval Civil Engineering Laboratory (NCEL), Book #3 1990 March 12 - 1990 June 25
box 50, folder 1	Valve Tests 1991 February 21 - 1991 February 22
box 50, folder 2	Naval Civil Engineering Laboratory (NCEL) Rising Box 1992 January 31 - 1992 March 24
box 50, folder 3	Office of Naval Research (ONR): Breaking Waves II 1995 January 26 - 1995 March 13
box 50, folder 4	The Inclined Floating Breakwater: A Progress Report undated Consultancy Work, Orange County
box 50, folder 5	Outfall Design: General (1) 1967 November 4 - 2000 July 5
box 50, folder 6	Outfall Design: General (2) 1967 November 4 - 2000 July 5
box 51, folder 1	Specifications and Plans: Orange County Ocean Outfall No. 2 1968
box 51, folder 2	Appendix D (Prepared for John Carollo Engineers) 1968 April 30

box 51, folder 3	Profiles of Municipal Breakwater 1983 April 14
box 51, folder 4	Breakwater Report 1983 May 31
box 51, folder 5	Summary Report of Contract 2.1: Ocean Outfall Design of Enhanced Armor Rock 1983 December
box 51, folder 6	A Detailed Model Study of Damage to a Large Breakwater and Model Verification of Concepts for Repair and Upgraded Strength 1984
box 51, folder 7	Basis of Design Report: Outfall Armor Rock 1992 November
box 51, folder 8	Re-Ballasting: Orange County Outfall 1995 December 5 - 1997 January 6
box 52, folder 1	The Re-Rocking of the Orange County Outfall 1996
box 52, folder 2	County Sanitation District of Orange County (CSDOC) Investigation and Repair of Ocean Outfall: Carollo Engineering J-39 Contract Revisions 1996 February 27 - 1996 June 6
box 52, folder 3	Project: Proposed Carollo Schedule 1996 May 21
box 52, folder 4	Orange County Outfall Model 1996 December - 1999 September
box 52, folder 5	Over Head Report Presentation: Orange County 1997 April 15
box 52, folder 6	Physical Model Tests of the Proposed Armor Protection for the Orange County Outfall: Prepared for Carollo Engineers 1999 September
box 52, folder 7	Orange County Outfall Model Tests I and II 1999 September
box 52, folder 8	Orange County Model Tests II 1999 September 5 - 2000 February 3
box 52, folder 9	Physical Model Tests of the Proposed Armor Protection for the Orange County Outfall Model Tests II 2000 January
box 53, folder 1	Orange County Re-Rock 2000 June 29 - 2001 July 30
box 53, folder 2	Sanitation District Outfall 2006 January 26 - 2008 November 25 Consultancy Work, Pier J
box 53, folder 3	Navy Basin II 1951 May - 1998 December 11
box 53, folder 4	Pier J Review Committee 1995 January 30 - 1998 November 30
box 53, folder 5	Port of Long Beach (POLB): Navy Basin 1995 February 26 - 1998 May 19
box 53, folder 6	Pier J Surge Barrier Technical Review Committee Materials 1995 March 14
box 54, folder 1	Long Beach Pier J (1) 1995 March 21 - 1995 June 20
box 54, folder 2	Long Beach Pier J (2) 1995 March 21 - 1995 June 20
box 54, folder 3	Port of Long Beach: Navy Basin (1) 1995 April 5 - 2000 March 22
box 54, folder 4	Port of Long Beach: Navy Basin (2) 1995 April 5 - 2000 March 22
box 54, folder 5	HB Pier J Coastal Engineering Research Committee (CERC) Data (1) 1995 July 6 - 1995 July 28
box 55, folder 1	HB Pier J Coastal Engineering Research Committee (CERC) Data (2) 1995 July 6 - 1995 July 28
box 55, folder 2	Pier J Design Report 1995 December 6 - 1995 December 27
box 55, folder 3	Port of Long Beach Navy Basin Phase I Study 1996 January 24
box 55, folder 4	Port of Long Beach Pier J Additional Numerical Study Summary Report (Moffatt & Nichol Engineers) 1996 January 26
box 55, folder 5	Moffatt & Nichol Navy Basin Review of March 2000 Report 1996 February 6 - 2000 March 2
box 55, folder 6	Port of Long Beach, Port of Los Alamitos Numerical Model 1997 June 14 - 1997 October 1
box 55, folder 7	Main Operating Base (M.O.B.) Navy 1998 April 2 - 1998 April 27
box 55, folder 8	Review of Numerical Model: Port of Long Beach, Port of Los Alamitos 1999 December 15 - 2000 May 2
box 55, folder 9	Navy Basin 2000 March 22 - 2000 March 27
box 55, folder 10	Moffatt & Nichol: Port of Long Beach 2005 July 22 - 2007 January 26
box 55, folder 11	Tsunami Hazard Assessment for the Ports of Long Beach and Los Angeles: Final Report, Moffatt & Nichol 2007 April Consultancy Work, Point Loma, San Diego
box 56, folder 1	Black & Veatch, San Diego (1) 1983 November - 1990 May 10
box 56, folder 2	Black & Veatch, San Diego (2) 1983 November - 1990 May 10
box 56, folder 4	Point Loma: Current Data 1990 January 31 - 1990 September
box 56, folder 3	Black & Veatch, Book #2 (Velocity & Pressures) 1990 April 12 - 1991 January 31
box 56, folder 5	Point Loma Extension (General) 1991 May 28 - 1992 May 26
box 57, folder 1	Point Loma Outfall Failure 1992 January 23 - 1992 March 10

box 57, folder 2	Point Loma Re-Rocking 1992 March 3 - 1997 September 12
box 57, folder 3	Contract Documents for Ocean Outfall Reballast and Corrosion Control Project 1992 May 21
box 57, folder 4	Point Loma Sewer Outfall Stability Tests 1994 August 17 Physical Description: 1 linear feet
box 58, folder 1	Rosarito Intake 1995 December 4 - 2003 November 17
box 58, folder 2	Rosarita Intake (Engineering Science) 1996 January 10 - 2000 April 24
box 58, folder 3	Re-Ballasting Point Loma Outfall (Re-Ballasting of a Section of the Point Loma Ocean Outfall, Prepared for Parson's Engineering Science, Inc.) 1996 March
box 58, folder 4	Loma Report and Figures 1996 March
box 58, folder 5	Rosarito Report: Rock Protection and Forces (The Rosarito Power Plant Cooling Water Intake Pipeline, Prepared for Parsons Engineering Science) 2000 February
box 58, folder 6	Peru Outfall 2000 November 13 - 2001 February 21
box 58, folder 7	Peru Outfall Report: Review of Report on the Chimbote Submarine Outfall (Prepared for Parsons Engineering Science, Inc.) 2001 January
box 58, folder 8	Consultancy Work, Redondo Beach Pier, King Harbor
box 59, folder 1	Redondo Beach Pier 1988 September 7 - 1992 July 1
box 59, folder 2	Redondo Beach King Harbor 1989 November 30 - 1990 January 6
box 59, folder 3	General Design Memorandum Number 3 (1) 1989 November - 1990 June
box 59, folder 4	General Design Memorandum Number 3 (2) 1989 November - 1990 June
box 59, folder 5	Redondo Beach 1996 November 4 - 1997 August 30
box 59, folder 6	Consultancy Work, Sammi Superstars Oil Spill
box 59, folder 7	Oil Slick Study 1976 August 29 - 1976 October 6
box 60, folder 1	Champion Oil Spill 1978 January 3 - 1982 March 8
box 60, folder 2	Sammi Superstars Oil Spill (1) 1991 January 8 - 1993 March 30
box 60, folder 3	Sammi Superstars Oil Spill (2) 1991 January 8 - 1993 March 30
box 60, folder 4	Oil Spill: Los Angeles Harbor 1993 February 12 - 1993 June 2
box 60, folder 5	Sammi Superstars Oil Spill Book 2 1993 March 5 - 1994 January 28
box 60, folder 6	Coastal Conservancy 1993 March 12 - 1993 April 23
box 60, folder 7	Consultancy Work, Santa Cruz
box 61, folder 1	Santa Cruz Design & Model Tests (1) 1983 March - 1985 November 7
box 61, folder 2	Santa Cruz Design & Model Tests (2) 1983 March - 1985 November 7
box 61, folder 3	Santa Cruz Outfall Model Results Data 1985 October 14 - 1985 October 17
box 61, folder 4	Design of the Rock Protection for the Santa Cruz Outfall (By Raichlen, Fredric for Brown and Caldwell Consulting Engineers) 1985 December
box 61, folder 5	Santa Cruz Rock Size 1987 April 20 - 1988 February 18
box 61, folder 6	Consultancy Work, Skagway
box 61, folder 7	Skagway (1) 1966 October 29 - 1998 December 23
box 61, folder 8	Skagway (2) 1966 October 29 - 1998 December 23
box 61, folder 9	Skagway Barge Dynamics 1995 August 7 - 1996 September 30
box 61, folder 10	Skagway II 1997 March 13 - 1998 November 21
box 61, folder 11	Skagway: Photographs and Film Roll 1997 September 7
box 61, folder 12	Skagway: Photographs and Film Roll 1997 September 7
box 61, folder 13	Juneau and Skagway: Photographs and Film Roll 1997 September 7
box 61, folder 14	Skagway Book 2 1999 January 13 - 1999 February 27
box 61, folder 15	Consultancy Work, United States Army
box 61, folder 16	Army Floating Breakwater (1) 1980 July 17 - 1981 March 16
box 61, folder 17	Army Floating Breakwater (2) 1980 July 17 - 1981 March 16
box 61, folder 18	Experiments with a Sloping Float Breakwater in Water Waves, Phase I (Prepared for Department of the Army Wilmington District, Corps of Engineers) 1981 April
box 61, folder 19	Shore Protection Manual (SPM) Review 1989 July 2 - 1989 September
box 61, folder 20	United States Army Corps of Engineers Dredging Research Technical Notes (Folder 1) 1992 July 21
box 61, folder 21	Waves on an Adverse Current: A Data Report (Prepared for the Coastal Engineering Research Center, The Waterways Experiment Station, United States Army Corps of Engineers) 1994 August

box 63, folder 3	United States Army Corps of Engineers Wave Generator 2007 May 30 - 2007 October 11
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Subseries 2 Depositions and Cases

box 63, folder 4	California Steel (1) 1978 May 19 - 1990 January 9
box 63, folder 5	California Steel (2) 1978 May 19 - 1990 January 9
box 64, folder 1	California Steel Information (Fogel & Roths) 1985 June 11 - 1990 December 10
box 64, folder 2	Las Tunas Beach 1986 November 3
box 64, folder 3	Simon Book II 1986 January 22 - 1987 April 22
box 64, folder 4	Refraction Program 1991 February 28 - 1992 March 9
box 64, folder 5	Brody Villa Blue Lagoon 1995 January 1 - 1998 August 14
box 64, folder 6	Brody: File # 2 1995 February 22 - 1998 May 5
box 64, folder 7	Skagway, Alaska Deposition 4: Raichlen, Fredric 1995 April 25 - 1999 May 1
box 65, folder 1	Brody: Blue Lagoon 1997 October 3 - 1998 April 15
box 65, folder 2	Malibu Landslide and Damage 1998 March 31 - 2002 November 12
box 65, folder 3	Skagway, Alaska Deposition: Raichlen, Fredric 1998 December 17
box 65, folder 4	Skagway, Alaska Deposition Exhibit 2: Raichlen, Fredric 1998 December 17
box 65, folder 5	Deposition of McGill, Michael, P.E. (1) 2000 April 25
box 65, folder 6	Deposition of McGill, Michael, P.E. (2) 2000 April 25
box 65, folder 7	Graven, Joseph 2002 January 2 - 2003 April 11
box 65, folder 8	Applied Fluids Engineering, Inc. (Copy of Case Number BC262348) 2002 June 26
box 65, folder 9	Loomis: Albion River 2002 December 18 - 2003 February 28
box 65, folder 10	CECON Group 2003 October 20 - 2003 November 4
box 65, folder 11	CECON Group 2005 June 8 - 2005 December 8

Subseries 3 Technical Papers and Research

box 83, folder 4	Water Surface Elevations and Other Data 1960 - 1964 Arrangement These materials are stored out of order in an oversize storage box.
box 66, folder 1	Three Dimensional Study 1960 April 19 - 1973 February 5
box 66, folder 2	Tidal Estuaries 1963 April 26 - 1963 June 3
box 66, folder 3	The Harmonius Analysis of Alluvial Beds 1963 August 22
box 66, folder 4	Moored Body Theory 1963 December 30 - 1964 May 8
box 66, folder 5	Wind Tunnel Experiments 1964 February 15 - 1964 March 8
box 66, folder 6	Oscillations in an Arbitrary Shaped Basin 1964 April 9 - 1964 April 16
box 66, folder 7	Experiment Results: Moored Body (1) 1964 August 1 - 1965 January 21
box 67, folder 1	Experiment Results: Moored Body (2) 1964 August 1 - 1965 January 21
box 67, folder 2	Dune Growth 1965 March 11 - 1965 May 26
box 67, folder 3	Turbulence Measurement 1965 May 31
box 67, folder 4	Analytical Prototype Moored Boats 1967 June 7 - 1967 September 20
box 67, folder 5	Prototype Mooring Systems and Response CRVs 1967 September 18 - 1968 March 12
box 67, folder 6	Non-Linear and Linear Unsymmetric Mooring Systems 1967 September 26 - 1967 October 31
box 67, folder 7	Summary and Runs 1 to 5 1967 December 21 - 1967 December 26
box 68, folder 1	Movement of Material by Breaking Waves 1968 January 28 - 1971 July 16
box 68, folder 2	Movement of Material Under Waves 1968 January 28 - 1975 January 11
box 68, folder 3	Tsunamis Harmonic Analysis 1968 December 27 - 1969 January 6
box 68, folder 4	Locations Common to 1960 and 1964 Tsunamis 1969 September 11
box 68, folder 5	Two Dimensional Study 1972 July 27 - 1973 January 19
box 68, folder 6	Reflections from Breakwaters of Rock and of Dolosse 1972 December 18 - 1973 January 9
box 68, folder 7	Preliminary 3-Dimensional Experiments 1973 February 8 - 1993 February 19
box 68, folder 8	Excitation of Fluids in Containers (1) 1973 March 9 - 1973 June 6

box 68, folder 9	Excitation of Fluids in Containers (2) 1973 March 9 - 1973 June 6
box 68, folder 10	Run-Up Gage Circuit Diagram 1973 July 24
box 68, folder 11	Run-Up Experiments 1973 August 13 - 1974 May 23
box 69, folder 1	Untitled (1) 1974
box 69, folder 2	Untitled (2) 1974
box 69, folder 3	Incipient Motion of a Sphere Resting on a Bed of Spheres Theoretical and Experimental Results 1974 December 5 - 1974 December 6
box 69, folder 4	Wave Generation and Calibration of Waves 1974 December 16 - 1975 July 24
box 69, folder 5	Tethered Buoyant Sphere 1975 November 5 - 1976 August 4
box 69, folder 6	Harbor Resonance Variable Depth 1975 December 29 - 1976 June 14
box 70, folder 1	The Tethered Float Breakwater Ocean Experiment 1976 June 28
box 70, folder 2	Experiments (1) 1977 June 13 - 1978 November 2
box 70, folder 3	Experiments (2) 1977 June 13 - 1978 November 2
box 70, folder 4	Notes Regarding Potential Research Topics 1978 October 12 - 1982 April 14
box 70, folder 5	Hilo Harbor Study 1980 December 11 - 1981 March 24
box 70, folder 6	Untitled 1981 July 8 - 1981 September 20
box 70, folder 7	Damage to West Breakwater 1982 January 11 - 1983 January 29
box 71, folder 1	Summary of Research 1982 April - 1982 December 27
box 71, folder 2	Breaking Wave Study (1) 1986 December 28 - 1987 February 6
box 71, folder 3	Breaking Wave Study (2) 1986 December 28 - 1987 February 6
box 71, folder 4	Breaking Waves Experiments 1987 September 25 - 1988 May 11
box 71, folder 5	Bottom Pressures and Solitary Curves (1) 1989 April 5 - 1989 December 21
box 71, folder 6	Bottom Pressures and Solitary Curves (2) 1989 April 5 - 1989 December 21
box 72, folder 1	Bottom Pressures Book #2 1990 April 18 - 1990 September 7
box 72, folder 2	Inlet Experiments 1991 December 2 - 1994 April 6
box 72, folder 3	Forces on a Horizontal Cylinder: Raw Data 1992 April 7 - 1993 August 5
box 72, folder 4	Forces on Cylinder off the Bottom (1) 1992 June 6 - 1997 February 7
box 72, folder 5	Forces on Cylinder off the Bottom (2) 1992 June 6 - 1997 February 7
box 72, folder 6	Multiple Wave Run-Up 1993 June 27 - 1996 June 5
box 73, folder 1	Forces on a Horizontal Cylinder: Summer 1992 Final Data 1993 August 16 - 1997 February 16
box 73, folder 2	Vertical Breakwater Project (Closed) 1995 March
box 73, folder 3	Run-Up Scale Effects 1997 November 21 - 1998 January 13
box 73, folder 4	Run-Up Scaling 2001 August 18 - 2002 January 10
box 73, folder 5	Box Experiments 2002 April 4 - 2004 November 15
box 73, folder 6	Rock Size Exploration 2008 February 5 - 2008 February 20
box 73, folder 7	Miscellaneous Figures and Maps undated
box 73, folder 8	Miscellaneous Fortran Programs undated
box 73, folder 9	Run-Up of Plunging Breaking Solitary Waves undated
	Technical Papers and Research, International Conference on Coastal Engineering/ Coastal Engineering Research Center
box 73, folder 10	International Conference on Coastal Engineering (ICCE) Paper (15th: Honolulu, HI) 1976
box 73, folder 11	Draft Proceedings of the 52nd Meeting of the Coastal Engineering Research Board 1990 March 30
box 73, folder 12	International Conference on Coastal Engineering (ICCE) (23rd: Venice, Italy) 1992 September - 1992 October
box 74, folder 1	Coastal Engineering Research Center (CERC) Seminar 1992 September 2 - 1993 January 13
box 74, folder 2	Coastal Engineering Research Center (CERC) Inlet Data (1) 1994 June 7 - 1994 August 9
box 74, folder 3	Coastal Engineering Research Center (CERC) Inlet Data (2) 1994 June 7 - 1994 August 9
box 74, folder 4	Coastal Engineering Research Center (CERC) Figures 1994 July 11
box 74, folder 5	International Conference on Coastal Engineering: Skagway Overhead (25th: Orlando, Florida) 1996
box 74, folder 6	Coastal Engineering Research Committee (CERC) and Ohio State University (OSU) Prints and Overheads for Liu, S.C. 1997 January 14 - 1998 February 10

	Technical Papers and Research, Ohio State University (OSU) Experiments
box 74, folder 7	Goleta Outfall 1960 January - 1990 June 22
box 74, folder 8	Goleta Sanitary District Plans 1964 July 6
box 75, folder 1	Spectra 1983 January 19 - 1983 September 5
box 75, folder 2	Goleta Refraction (1) 1990 June
box 75, folder 3	Goleta Refraction (2) 1990 June
box 75, folder 4	Goleta: General 1990 June 16 - 1990 October 29
box 75, folder 5	Armored Protection for the Goleta Outfall 1990 July
box 76, folder 1	Review of Ohio State University (OSU) Model Scale: Goleta 1991 September 4
box 76, folder 2	Wave Experiments: Ohio State University (OSU) 2000 December 27 - 2002 April 2
box 76, folder 3	Spectra for Wave Group Frequency 2000 December 28 - 2003 May 7
box 76, folder 4	Ohio State University (OSU) Hemisphere (Raichlen, Fred) 2002 April 2 - 2002 April 5
box 76, folder 5	Ohio State University (OSU) Experiments (Wedge: Summary Plots) 2002 April 2 - 2003 May 13
box 77, folder 1	Ohio State University (OSU) Hemisphere Experiments 2002 April 4 - 2003 March 31
box 77, folder 2	Ohio State University (OSU) Experiments Summary 2003 June 10 - 2003 November 18

Subseries 4 Publications and Talks

box 77, folder 3	Water Waves Generated by Arbitrary Bed Deformations 1975 October 20 - 1975 November 24
box 77, folder 4	Journal of Fluid Mechanics (JFM) Paper Velocities 1981 January 27
box 77, folder 5	American Society of Civil Engineers (ASCE) Wave Measurement Paper 1981 June 12 - 1983 April 27
box 77, folder 6	Waves 1992 September 30 - 1993 September 8
box 77, folder 7	Harbor Resonance Ship Operation Talk 1993 December 16
box 77, folder 8	Horizontal Ridge Forces: Paper 1 1994 December 28 - 1995 February 15
box 77, folder 9	Solitary Waves (EJL) 1996 February 26 - 1996 March 1
box 77, folder 10	Jet Propulsion Laboratory (JPL) Talk 2005 March 11
box 77, folder 11	Inlets Papers undated

Subseries 5 Research Proposals

box 78, folder 1	Scour Proposal 1981 August - 1982 March 9
box 78, folder 2	National Science Foundation (NSF) Letter: Historical 1984 October 31
box 78, folder 3	Burns Harbor Waves 1985 - 2000 September 1
box 78, folder 4	Proposals (1) 1989 March 28 - 1989 December 3
box 78, folder 5	Proposals (2) 1989 March 28 - 1989 December 3
box 78, folder 6	Seismo (Tsunamis) + Hydro (National Science Foundation) Workshop 1996 October 23 - 1996 November 1
box 78, folder 7	National Science Foundation (NSF) MRE Proposal (1) 1996 October 30 - 2000 January 19
box 79, folder 1	National Science Foundation (NSF) MRE Proposal (2) 1996 October 30 - 2000 January 19
box 79, folder 2	Progress Report 1997 April 15
box 79, folder 3	Breaking Wave Gas (ENTR. Proposal) 1997 April 15 - 1997 September 1
box 79, folder 4	The National Tsunami Laboratory Facility: University of Southern California (USC) and National Science Foundation (NSF) Fastlane Proposal and Approval 2000 May 10
box 79, folder 5	Burns Harbor (Cox) 2000 August 31 - 2000 November 14
box 79, folder 6	Burns Harbor 2000 September 18 - 2000 October 24
box 79, folder 7	Hong Kong Review Proposal 2000 October 19 - 2001 March 13
box 79, folder 8	Run-Up Proposal (Liu, et al) 2002 September 30 - 2003 January 10
box 79, folder 9	Proposal for Review undated

Series 4 Photographs, Film Reels and Videos, Zip Disks

Subseries 1 Photographs

box 79, folder 10	Photographs of Azusa Laboratory 1940 July 16 - 1972 August 9
box 79, folder 11	Environmental Engineering Photos A to Z (1) 1964 September - 1996 January
box 80, folder 1	Environmental Engineering Photos A to Z (2) 1964 September - 1996 January
box 80, folder 2	Environmental Engineering Photos A to Z (3) 1964 September - 1996 January
box 80, folder 3	Photographs and Negatives: Azusa Laboratory 1972 July 18 - 1973 January 29
box 80, folder 4	Aerial Photographs: Brewster Pacific Corporation 1972 November 24 - 1983 November 19
box 80, folder 5	Photographs and Photograph Log of Mendocino Wave Study 1973 January 10 - 1973 January 15
box 80, folder 6	Miscellaneous Photographs 1973 July 17 - 2001 March 29
box 80, folder 7	Miscellaneous Environmental Engineering Division Photographs 1974 December - 1997 January 31
box 80, folder 8	Photographs: Diablo Canyon Model 1981 January - 1982 April
box 81, folder 1	San Elijo: Encina Photos at Ohio State University (OSU) 1985 June
box 81, folder 2	Santa Cruz: Photos at Ohio State University (OSU) 1985 October
box 81, folder 3	Tsunami Negatives for Slides 1987 April 24
box 81, folder 4	Prints of Solitary Wave and Surge from Wave from High Speed Movie 1987 July 9
box 81, folder 5	Photographs: Experiments on Waves Breaking 1987-1988
box 81, folder 6	Photographs: Copies of Various Frames 1988 May 6
box 81, folder 7	Photo Album: Mechanical Engineering, Course ME19 Field Trip 1990 February 21 Slides
box 81, folder 8	Slides from Box Labeled California Institute of Technology Hydraulic Structures Laboratory, Azusa 1973 April - 1980 February Physical Description: 1 slides (plastic)
box 81, folder 9	Slides from Raichlen, Fred's Collection (1) 1976-1978 Physical Description: 1 slides (plastic)
box 81, folder 10	Slides from Raichlen, Fred's Collection (2) 1976-1978 Physical Description: 1 slides (plastic)
box 81, folder 11	Slides from Raichlen, Fred's Collection (3) 1976-1978 Physical Description: 1 slides (plastic)
box 82, folder 1	Slides from Raichlen, Fred's Collection (4) 1976-1978 Physical Description: 1 slides (plastic)
box 82, folder 2	Slides from Raichlen, Fred's Collection (5) 1976-1978 Physical Description: 1 slides (plastic)
box 82, folder 3	Slides from Raichlen, Fred's Collection (6) 1976-1978 Physical Description: 1 slides (plastic)
box 82, folder 4	Slides and Documents from Tsunami Film 1977 June 6 Physical Description: 1 slides (plastic)
box 82, folder 5	Slides from Environmental Engineering Film 1983 September Physical Description: 1 slides (plastic)
box 82, folder 6	Overheads 1996 May 7 Physical Description: 1 slides (plastic)

Subseries 2 Film Reels and Videos

- Film Reel and Video Documentation**
- box 82, folder 7 **Notes to Accompany the 16mm Motion Picture, Experiments on Turbidity Currents, Middleton, Gerald V. (related to FR_4_1_1) 1965 July**
- box 82, folder 8 **Notes on Reel Content for Film for Watson Lecture 1977 March 17 - 1977 April 27**
- box 82, folder 9 **Documents from Middleton: Experiments on Turbidity Currents (related to FR_4_2_28) 1981 May 6**
- box 82, folder 10 **Documents from Storm and Coastal Damage (related to FR_4_3_19) 1988 March 16**
- box 82, folder 11 **Documents from Hydraulic Jump Above a Matrix of Vertical Cylinders in a Small Flume (related to FR_4_3_26) 1992**
- box 82, folder 12 **National Science Foundation (NSF) Wedge Video Log (1) 2002 April 10 - 2002 April 11**
- box 82, folder 13 **National Science Foundation (NSF) Wedge Video Log (2) 2002 April 10 - 2002 April 11**
- box 82, folder 14 **Documents from Video: Landslide Experiments, Exploratory (related to FR_4_5_78) undated**
- Film Reels**
- reel 1 **Experiments on Turbidity Currents 1965 July**
Physical Description: 1 film reels (16 mm, acetate, sound)
General
This film reel has been digitized. See Caltech Archives for additional information.
Subjects and Indexing Terms
Pasadena -- California
- reel 2 **Film 1 1977 March 14**
Physical Description: 1 film reels (16 mm, acetate, sound)
General
This film reel has been digitized. See Caltech Archives for additional information.
- reel 3 **Film 2 1977 March 16**
Physical Description: 1 film reels (16 mm, acetate, sound)
General
This film reel has been digitized. See Caltech Archives for additional information.
- reel 4 **Film 3 1977 March 16**
Physical Description: 1 film reels (16 mm, acetate, sound)
General
This film reel has been digitized. See Caltech Archives for additional information.
- reel 5 **Film 4 1977 March 16**
Physical Description: 1 film reels (16 mm, acetate, sound)
General
This film reel has been digitized. See Caltech Archives for additional information.
- reel 6 **Film 5 1977 March 16**
Physical Description: 1 film reels (16 mm, acetate, sound)
General
This film reel has been digitized. See Caltech Archives for additional information.
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- reel 7 **Film 6 1977 March 16**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 8 **Film 7 1977 March 18**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 9 **Film 8 1977 March 18**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 10 **Film 9 1977 March 18**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 11 **Film 10 1977 March 18**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 12 **Film 12 1977 March 21**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 13 **Film 13 1977 March 21**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 14 **Film 14 1977 March 21**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 15 **Film 15 1977 March 21**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 16 **Film 16 1977 March 21**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
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- reel 17 **Film 18 1977 March 22**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 18 **Film 19 1977 March 22**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 19 **Film 20 1977 March 22**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 20 **Film 21 1977 March 22**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 21 **Film 22 1977 March 22**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 22 **Tsunami Film 1977 June 6**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 23 **United States Naval Civil Engineering Laboratory Sloping Float Breakwater 1979
June 27**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 24 **Experiments of Turbidity Currents 1981 February 11**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
 Subjects and Indexing Terms
 Pasadena -- California
- reel 25 **Experiments on Turbidity Currents 1983 July 14**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
 Subjects and Indexing Terms
 Pasadena -- California
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- reel 26 **Dam Break 1 1986 December 15**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 27 **Dam Break ASA 200 1987 January 28**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 28 **Middleton, G.V.: Experiments on Turbidity Currents undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
 Subjects and Indexing Terms
 Pasadena -- California
- reel 29 **United States Department of Commerce: Tsunami undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 30 **Watson Lecture Print with Sequence of Wave Transform Over Step Removed undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 31 **ESTAR: Mechanical Waves undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 32 **Floating Breakwater undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 33 **Ship Surging: Print of Johnson, J. Film undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 34 **Transformation of Waves Over a Step undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 35 **Work Print undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
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- reel 36 **Original Extra: ENG 12 undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- reel 37 **Tsunamis: Observations, Computer Simulation, Hydraulic Model undated**
 Physical Description: 1 film reels (16 mm, acetate, sound)
 General
 This film reel has been digitized. See Caltech Archives for additional information.
- Videos**
- box 85, Tape 1 **Bore Propagation and Tsunami 1968**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 2 **Inclined Breakwater 1981 February 18**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 3 **Diablo Canyon Breakwater Experiment 1981 March 26 - 1981 March 27**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 4 **Diablo Canyon Breakwater 1981 April 3 - 1981 April 6**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 5 **Preliminary Experiments on Intake Structures and Hood Models: Diablo Canyon 1981 April 19**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 6 **Storm Waves: Seal Beach Pier, Santa Monica Pier, Crystal Pier and Malibu 1983 February 27**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 7 **Akita Tsunami 1983 May 26**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 8 **Akita Tsunami: Japanese TV News 1983 May 26**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 9 **Japan Tsunami: Hwang, Li-san 1983 May 26**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 10 **Akita Tsunami 1983**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 11 **NHK Documentary: Tsunamis of 1983 Japan Sea Earthquake 1983**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 12 **Initial Experiment: Random Waves Circular Harbor 1985 March 6**
 Physical Description: 1 videocassettes (VHS)
- box 85, Tape 13 **Wave-Wall Interactions; 1: Solitary, 2: Surge 1987 April 29**
 Physical Description: 1 videocassettes (VHS)
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box 85, Tape 14	Breaking Waves: P2 and SP2 1987 June 8 Physical Description: 1 videocassettes (VHS)
box 85, Tape 15	Guam Original: Runs 1380 A-H Guam, C80 A-C Rock E + S, D80 A-C, E80 A-C 1988 January 15 Physical Description: 1 videocassettes (VHS)
box 85, Tape 16	Video of Impact Against Wall for QE Seminar: Explanation in Notes 1988 November 22 Physical Description: 1 videocassettes (VHS)
box 85, Tape 17	Avalon North East Waves: Santa Ana Damage 1988 Physical Description: 1 videocassettes (VHS)
box 85, Tape 18	Siting Guidelines: Test #9, #10, #11, Scour Patterns 1989 January 19 Physical Description: 1 videocassettes (VHS)
box 85, Tape 19	Warzyn Floating Breakwater Tests 1989 February 11 Physical Description: 1 videocassettes (VHS)
box 85, Tape 20	Wave Generation by Released Volume: Forman, Selena and McCaffree, Leslie 1989 June 9 Physical Description: 1 videocassettes (VHS)
box 85, Tape 21	Experiments: Slope1 to Slope 11 1989 August 11 Physical Description: 1 videocassettes (VHS)
box 85, Tape 22	Experiments: Step 1 to Step 27 1989 October 10 - 1989 October 11 Physical Description: 1 videocassettes (VHS)
box 85, Tape 23	Run-Up: Single and Multiple Solitary Waves; Overland Flow and Wall Impact 1990 December 28 Physical Description: 1 videocassettes (VHS)
box 85, Tape 24	Overland Flow Experiment: Hayen, J.C. 1991 December Physical Description: 1 videocassettes (VHS)
box 85, Tape 25	Wave Run-Up and Overland Flow 1991 December 3 Physical Description: 1 videocassettes (VHS)
box 85, Tape 26	Hydraulic Jump above a Matrix of Vertical Cylinders in a Small Flume 1992 Physical Description: 1 videocassettes (VHS)
box 85, Tape 27	Sea of Japan Tsunami and Hokkaido Tsunami undated Physical Description: 1 videocassettes (VHS)
box 85, Tape 28	Tsunami Inundation in Hilo Bay: 1960 Chilean Tsunami 1993 September Physical Description: 1 videocassettes (VHS)
box 85, Tape 29	Video of H41: 2/6/94 H41-A, H41-B, H41-C, 2/7/94 H41-D, 2/8/94 H41-E,F,G, 2/9/94 H41-A 1994 February 6 - 1994 February 9 Physical Description: 1 videocassettes (VHS)
box 85, Tape 30	Run-Up: Two Waves 1996 May Physical Description: 1 videocassettes (VHS)

box 85, Tape 31	Keck Lab: Run-Up of 1 foot Water Heights 1996 October 7 Physical Description: 1 videocassettes (VHS)
box 85, Tape 32	Tsunami Upper Slope Past Beam 1996 October Physical Description: 1 videocassettes (VHS)
box 86, Tape 33	Tsunami Waves 1996 October Physical Description: 1 videocassettes (VHS)
box 86, Tape 34	Diablo Canyon Breakwater: Prototype and Model for International Conference on Coastal Engineering (ICCE) Short Course 1996 Physical Description: 1 videocassettes (VHS)
box 86, Tape 35	High Speed Video Recording : H/h=0.35 1997 January 31 Physical Description: 1 videocassettes (VHS)
box 86, Tape 36	High Speed Video Recording Solitary Wave Breaking: H/h = 0.30 1997 February 1 Physical Description: 1 videocassettes (VHS)
box 86, Tape 37	High Speed Video: Plunging Breaking Solitary Wave On Slope 1997 July Physical Description: 1 videocassettes (VHS)
box 86, Tape 38	Compare between HVC and Wave Gage (1) , Maximum Run-Up time for Panel 3 (2) 1997 July 1 Physical Description: 1 videocassettes (VHS)
box 86, Tape 39	Multiple Wave Run-Up Measurement: H/h = 0.40, h = 30.48 1997 September 17 Physical Description: 1 videocassettes (VHS)
box 86, Tape 40	Advance Pump Company: Akita Tsunami 1997 December 8 Physical Description: 1 videocassettes (VHS)
box 86, Tape 41	Nonbreaking Multiple Wave Run-Up: H/h = 0.025, h=1 foot 1997 December 28 Physical Description: 1 videocassettes (VHS)
box 86, Tape 42	Shape: h 30.48-0.3 1998 February 10 Physical Description: 1 videocassettes (VHS)
box 86, Tape 43	Overtop 1998 February 28 Physical Description: 1 videocassettes (VHS)
box 86, Tape 44	San Clemente Experiments: Original 1998 May - 1998 June Physical Description: 1 videocassettes (VHS)
box 86, Tape 45	Normal Speed Landslide Original: Skagway 1999 January 5 Physical Description: 1 videocassettes (VHS)
box 86, Tape 46	Landslide Composite: Skagway 1999 January 5 Physical Description: 1 videocassettes (VHS)
box 86, Tape 47	High Speed Landslide Original: Skagway 1999 January 5 Physical Description: 1 videocassettes (VHS)

box 86, Tape 48	Wave Tank Modeling: Orange County Sanitation District (OCSD) 1999 July - 1999 August Physical Description: 1 videocassettes (VHS)
box 86, Tape 49	Breaking Wave Workshop: Cornell 1999 October Physical Description: 1 videocassettes (VHS)
box 86, Tape 50	Breaking Waves, Underwater View: Orange County Outfall Studies undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 51	Examples of Tsunami Research; 1: Overland Flow, 2: Breaking Wave Run-Up, 3: Surge-Wall Impact, 4: Landslides undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 52	P2, SP2 Breaking Waves undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 53	From High Speed Movies Breaking Waves; 12 min 25 sec: Solitary Waves P2, SP2, Cnoidal Waves CAN-4, 6-1, 7-1 undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 54	National Science Foundation (NSF) Wedge, Oblique View: Run Numbers 123-130 undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 55	National Science Foundation (NSF) Wedge Surface undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 56	National Science Foundation (NSF) Wedge, Long View: Run Numbers 123-130 undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 57	National Science Foundation (NSF) Wedge: Underwater undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 58	Preliminary Runs: A41-A, B, C undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 59	Sloped Cliff Face: Runs B1-B7, C1 undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 60	Video of Run M41-0, N41-0, O41-0, A1-A5, P41 A1-A5, Q41 A1-A6, Q41 B, Q41C, Q41E, Q41F undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 61	Alternate #1: K41 - A, B, C, D, F, G, H, L undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 62	Testing for LDV Velocity Recording: h = 0.20, h = 1 foot undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 63	Vicksberg Run-Up (h = 1 foot) undated Physical Description: 1 videocassettes (VHS)

box 86, Tape 64	LDV Vicksberg: (1) h = 1 foot (2) h = 2.5 foot (3) h = 1 foot undated Physical Description: 1 videocassettes (VHS)
box 86, Tape 65	Ship Surging: Print of Johnson, J. Film undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 66	SP2 Solitary undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 67	P2 Solitary undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 68	A-CN-4 Cnoidal undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 69	ACN6-1 Cnoidal undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 70	ACN7-1 Cnoidal undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 71	Colorado River Rapids: Kieffer undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 72	Landslide Experiments: Exploratory undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 73	High Speed Video: h= 30.48 cm, H/h = 0.43 undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 74	Comparison of Two High-Speed Video Cameras undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 75	Simultaneous Recordings undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 76	Recording From Top undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 77	Mechanical Engineering Seminar undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 78	Skjelbriea, Synolakis, Zelt: Equipment undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 79	Coldwater Creek Pump Intake undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 80	Laboratory Simulation of A Bow Wave: Waneiwski, Tricia undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 81	Excerpt of Run-Up Two Waves undated Physical Description: 1 videocassettes (VHS)

box 87, Tape 82	Malibu: Graven undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 83	Redondo Beach Portofino undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 84	SBLO 3 undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 85	ESI: Movie 2354, 3091 undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 86	ESI: Movie 2354, 3092 undated Physical Description: 1 videocassettes (VHS)
box 87, Tape 87	ESI: Movie 2354, 3093 undated Physical Description: 1 videocassettes (VHS)
box 88, Tape 88	Storm & Coastal Damage: January 17-20, 1988 1988 March 17 Physical Description: 1 videocassettes (VHS)
box 88, Tape 89	Storm & Coastal Damage: January 17-24, 1988 1988 March 17 Physical Description: 1 videocassettes (VHS)
box 88, Tape 90	Videos, Walt Disney Imagineering Walt Disney Imagineering: Typhoon Lagoon Wave Machine Sample Reel 1989 May 11 Physical Description: 1 videocassettes (VHS)
box 88, Tape 91	Walt Disney Imagineering: T.L.: 4/26/89 13:00-13:01F Series, 4/27/89 9:15:47-11:53:24 D.R.S. 1990 March 14 Physical Description: 1 videocassettes (VHS)
box 88, Tape 92	Walt Disney Imagineering: T.L.: 4/27/89 12:58:15-13:21:04 D.R.S. Channel Pan 1990 March 14 Physical Description: 1 videocassettes (VHS)
box 88, Tape 93	Walt Disney Imagineering: T.L.: 4/25/89 3:28:18-6:17:07 High Lift 1990 March 14 Physical Description: 1 videocassettes (VHS)
box 88, Tape 94	Walt Disney Imagineering: T.L.: 4/27/89 D.R.S. Wave #1 to #10 Channel Pan 1990 March 14 Physical Description: 1 videocassettes (VHS)
box 88, Tape 95	Walt Disney Imagineering: T.L.: 4/27/89 High Lift 10:06:05 to 13:21:11 1990 March 14 Physical Description: 1 videocassettes (VHS)
box 88, Tape 96	Walt Disney Imagineering: High Lift, Over the Fall (T.L. 4/27/89 10:52:57-15:01:00) 1990 March 14 Physical Description: 1 videocassettes (VHS)
box 88, Tape 97	Walt Disney Imagineering: Gate Vortex (T.L. 4/25/89 6:18:00-6:38:31) 1990 March 14 Physical Description: 1 videocassettes (VHS)

- box 88, Tape 98 **Walt Disney Imagineering: Gate Vortex (T.L. 4/26/89 11:57:37-12:50:27) 1990 March 14**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 99 **Walt Disney Imagineering: Typhoon Lagoon (Wild Time Code) 1990 March 14**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 100 **Walt Disney Imagineering: Typhoon Lagoon (Fixed Channel) 1990 February 13**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 101 **Walt Disney Imagineering Hydronautics Wave Generator Forward Viewpoint 1997 April 23**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 102 **Walt Disney Imagineering Hydronautics Wave Generator Upper Viewpoint 1997 April 23**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 103 **Disney Test undated**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 104 **Videos, ABC / Dateline**
ABC Caltech Tsunami: Submaster (Audio Chapter 1) 1997 April 14
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 105 **ABC Caltech Tsunami (Revised Edited Master) 1997 May 13**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 106 **ABC Interview of Raichlen, Fred 1997 June 5**
Physical Description: 1 videocassettes (VHS)
- box 88, Tape 107 **Dateline (Tsunami) 1997 December 9**
Physical Description: 1 videocassettes (VHS)
-

Subseries 3 Zip Disks

- box 88, object 108 **Original Data 2002 March 12 - 2002 April 3**
Physical Description: 1 computer disks (Zip)
- box 88, object 109 **Transport 3 2002 April 4 - 2002 April 5**
Physical Description: 1 computer disks (Zip)
- box 88, object 110 **Landslide Data: Forces and Runs (Ohio State University Wave Research Lab) 2002 April 15**
Physical Description: 1 computer disks (Zip)
- box 88, object 111 **International Conference on Coastal Engineering (Raichlen, Fred and Synolakis, Costas) 2002**
Physical Description: 1 computer disks (Zip)
- box 88, object 112 **Untitled 2003 January 20**
Physical Description: 1 computer disks (Zip)
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box 88, object 113	Ohio State University Landslide Data (2002 Wedge and 2003 Hemisphere) 2003 February 19 Physical Description: 1 computer disks (Zip)
box 88, object 114	Hemisphere Experiment 2003 Physical Description: 1 computer disks (Zip)
box 88, object 115	Landslide 2004 2004 Physical Description: 1 computer disks (Zip)
box 88, object 116	Landslide 2004 Videos (1) 2004 Physical Description: 1 computer disks (Zip)
box 88, object 117	Landslide 2004 Videos (2) 2004 Physical Description: 1 computer disks (Zip)
box 88, object 118	Landslide 2004 Videos (3) 2004 Physical Description: 1 computer disks (Zip)
box 88, object 119	Landslide 2004 Videos (4) 2004 Physical Description: 1 computer disks (Zip)