
Descriptive Summary

Title: G. W. Housner Papers,

Date (inclusive): 1926-1999

Collection number: 10202-MS

Creator: Housner, G. W. (George William) 1910-

Extent: 35 linear feet

Repository: California Institute of Technology. Caltech Archives
Pasadena, California 91125

Abstract: The working papers, correspondence, publications, and biographical material of George W. Housner form the collection known as the G. W. Housner Papers in the Archives of the California Institute of Technology (Caltech). Professor Housner spent his entire academic career at Caltech and he is one of the pioneers in earthquake engineering, and is internationally known for his outstanding contributions to theory and practice in the field of structural dynamics.

Physical location: Archives, California Institute of Technology.

Language of Material: Collection materials in EnglishRussianJapanese

Access

The collection is open for research. Researchers must apply in writing for access.

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Preferred Citation

[Identification of item], G. W. Housner Papers, 10202-MS, Caltech Archives, California Institute of Technology.

Acquisition Information

The papers were donated to the Caltech Archives by Professor Housner himself in several installments between 2001 to 2002. The first installment in December 2001 consisted of one storage box of miscellaneous papers. The second and third installments in March and April 2002 consisted of eight storage boxes of Housner and R. R. Martel material. Accessions of forty-four additional storage boxes of Housner's material were donated in September 2002. The Martel material has been processed as a separate collection.

Printed material from Housner's collection regarding the Auburn Dam and the Litterlock Dam was transferred in July 2003 to the Water Resources Center Archives located at the University of California at Berkeley.

Biography

George William Housner, the C. F. Braun Professor of Engineering, Emeritus, is one of the pioneers in earthquake engineering, and is internationally known for his outstanding contributions to theory and practice in the field of structural dynamics. Housner has served as president of the International Association for Earthquake Engineering, the Earthquake Engineering Research Institute, and the Seismological Society of America.

Professor Housner was born in Saginaw, Michigan on December 9, 1910. He received his BS degree in mathematics from the University of Michigan in 1933, and his MS degree in civil engineering from the California Institute of Technology the following year. From 1934 to 1939 he worked as a structural engineer in the Los Angeles metropolitan area, then returned to the California Institute of Technology for further studies, obtaining his PhD in civil engineering in 1941.

During World War II Housner worked with the US Army Corps of Engineers on problems of protective construction; and from 1943 to 1945 he served as chief of the Operations Analysis Section of the 15th Air Force Unit in North Africa and Italy. He received the Distinguished Civilian Service Award for his contributions to optimizing air force operations during the war.

Professor Housner joined the California Institute of Technology faculty as an assistant professor in 1945, later serving as professor of civil engineering and applied mechanics. Professor Housner conducted research in earthquake engineering on characteristics of destructive

ground shaking, earthquake design spectrum, and seismic design of structures, including high-rise buildings and liquid storage tanks.

In parallel to his academic career, Housner served as a consultant on several of the earliest skyscrapers built in Los Angeles and has been an earthquake engineering consultant to dozens of governmental agencies and major corporations, including the California Department of Water Resources, the California Department of Transportation, the San Francisco Bay Area Rapid Transit System, the Japanese Atomic Energy Commission, the Italian Nuclear Energy Commission, and the Bechtel Corporation. In 1986 he was named a consultant on the construction of Metro Rail in Los Angeles.

Housner's contributions to earthquake engineering have been recognized by his election to membership in the National Academy of Engineering in 1965, the National Academy of Sciences in 1972, the Indian National Science Academy in 1984, and the Japan Academy of Science in 1991. He has received many honors and awards, including the Von Kármán Medal of the American Society of Civil Engineers in 1974, Medal of the Seismological Society of America in 1981; and in 1988 he received the National Medal of Science. In 1989, Professor Housner became the first recipient of the George W. Housner Medal of the Earthquake Engineering Research Institute.

Scope and Content

The collection is composed of eight series organized in seventy-one archival boxes. The correspondence, Series 1, is organized chronologically from 1948 to 1994. An alphabetical index for this series will be forthcoming. Note that a correspondence folder for 1977 is not available.

Housner spent his entire academic career at Caltech, and material regarding that relationship can be found in Series 2, California Institute of Technology. This series is subdivided into Housner's teaching material, committees, proposals and research notes. History of earthquake engineering research material can also be found in this section.

Series 3, Writings, includes Housner's manuscripts, preprints and reprints. All are arranged in chronological order and contain a wide variety of related documents, from graphs to related correspondence.

During his academic career, Housner served as an earthquake engineer consultant to many government agencies and corporations. His consulting files (Series 4) make up about a third of the collection and shed light on his non-academic activities. Housner was also very active in many scientific and professional organizations, and material dealing with these organizations can be found in Series 5.

Series 6 contains a varied selection of slides and photographs on structures in the US and abroad, as well as unique earthquake damage photos. Housner's many awards and honors can be found in the biographical section (Series 7) as well as in the oversize section (Series 8), which contains plaques, medals, paper awards and memorabilia.

The collection is organized into the following series:

- Series 1. Correspondence
- Series 2. Caltech Material
- Series 3. Writings
- Series 4. Consulting Files
- Series 5. Professional Organizations, Meetings and Talks
- Series 6. Slides and Photographs
- Series 7. Biographical
- Series 8. Oversize

Related Material

Researchers may also refer to the oral history interviews conducted through the Caltech Archives' Oral History Project. The first interview with Professor Housner was conducted by Rachel Prud'Homme in 1984, and the second one by Shirley Cohen in 1997.

Indexing Terms

The following terms have been used to index the description of this collection in the library's online public access catalog.

Subjects

California Institute of Technology
Earthquake Engineering Research Institute
Civil engineering
Earthquake engineering
Earthquake resistant design

Structural dynamics

Occupations

Civil engineers

Series 1. Correspondence

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Series 2. Caltech Material

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 Box 10, Folder 9 **AM 97b, Analytical mechanics of deformable bodies 1976**
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 Box 10, Folder 11 **Ae/AM 102a, Mechanics of structures and solids 1974**
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 Box 10, Folder 13 **Ae/AM 102c, Mechanics of structures and solids 1975**
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 Box 10, Folder 18 **Ae/AM 102b, Mechanics of structures and solids 1980**
 Box 10, Folder 19 **Ae/AM 102c, Mechanics of structures and solids 1981**
 Box 11, Folder 1 **AM 105, Advanced strength of material 1954-1955**
 Box 11, Folder 2 **AM 105, Advanced strength of material 1960-1962**
 Box 11, Folder 3 **AM 110a, Theory of elasticity 1946, 1948-1954, 1958-1966**
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 Box 11, Folder 5 **AM 110c, Theory of elasticity 1949-1950, 1957, 1959-1960**
 Box 11, Folder 6 **Notebook: 110c plasticity notes 1964-1966**
 Box 11, Folder 7 **AM 112a, Structural mechanics 1968**
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Subseries 2. Caltech, General

Caltech committees

Subseries 2. Caltech, General

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Box 14, Folder 8	Advisory Committee on Retirement Policy 1973-1975 Caltech, administrative material
Box 14, Folder 9	Applications for appointments to civil engineering staff 1946-1969
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Box 14, Folder 15	History of the old Hydraulic Machinery Laboratory [the "Pump Lab"], correspondence 1985, 1992 History of earthquake engineering research
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Box 16, Folder 6	"Earthquake engineering instrumentation" 1971-1976
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Box 17, Folder 1	"Research on effects of damage from strong earthquakes," (NSF/ATA-74-19135) 1974-1975
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Subseries 3. Research Proposals

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- Note**
- Tashkent translation originals, Russian text (starts at p. 394, p. 600, p. 629).
- Box 18, Folder 5 **"Support of USCOLD Ad Hoc Committee on earthquake effects on dams," (NSF/ATA-7405163) 1977**
Box 18, Folder 6 **"National Information Center for Earthquake Engineering," National Science Foundation (ENG-7101825) 1977**
Box 18, Folder 7 **"Engineering study of 15 October, 1979 Imperial Valley earthquake data" 1980**
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Box 20, Folder 19	Determination of effective acceleration for seismic analysis of drywell 1966
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Box 21, Folder 2	"Vibrations of bridge pier" 1940s
Box 21, Folder 3	"On the use of the Bernoulli beam equation for vibration problems" 1950
Box 21, Folder 4	"Note on the simplified equations of vibrating beams" 1955
Box 21, Folder 5	"Earthquake engineering: research and practice" 1960s
Box 21, Folder 6	"Discussion of design for Hard Luck Dam" 1971
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Subseries 2. Preprints

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Box 21, Folder 10	"Earthquake design of nuclear power plants" 1967
Box 21, Folder 11	"Comparison of footing vibration tests with theory" 1968
Box 21, Folder 12	"Analysis of structural response" 1968
Box 21, Folder 13	"Intensity of earthquake ground shaking near the causative fault" 1968
Box 21, Folder 14	"Engineering estimates of ground shaking and maximum earthquake magnitude" 1969
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Box 21, Folder 17	"Earthquakes and earthquake insurance" 1960s
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Box 21, Folder 26	"Earthquake considerations in dam designs" 1970s
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Box 21, Folder 29	"Earthquake ground motion and response of structures" 1970s
Box 22, Folder 1	"Earthquake hazard" 1970s
Box 22, Folder 2	"Earthquake prediction and earthquake engineering research" 1970s
Box 22, Folder 3	"Earthquake-resistant design of drilling towers in the Java Sea" 1970s
Box 22, Folder 4	"Earthquakes: an international problem" 1970s
Box 22, Folder 5	"Earthquakes and earthquake engineering" 1970s
Box 22, Folder 6	"Observed changes in the natural periods of vibrations of a nine story steel frame building" 1970s
Box 22, Folder 7	"Optimizing earthquake protection of cities through research" 1970s
Box 22, Folder 8	"Vibrations in suspension bridges" 1970s
Box 22, Folder 9	"Research and development in earthquake engineering" 1970s
Box 22, Folder 10	"The design earthquake" 1980s
Box 22, Folder 11	"Cooperation in earthquake engineering research: US-China" 1990s

Subseries 3. Reprints

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Box 22, Folder 13	"Characteristics of strong-motion earthquakes" 1947

Box 22, Folder 14	"Ground displacement computed from strong-motion accelerograms" 1947
Box 22, Folder 15	"The estimation of linear trends" 1948
Box 22, Folder 16	"The analysis of strong-motion earthquake records with electric analog computer 1949
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Box 23, Folder 1	"Spectrum intensities of strong-motion earthquakes" 1952
Box 23, Folder 2	"The Tehachapi earthquake of July 21, 1952" 1952
Box 23, Folder 3	"Bending vibrations of a pipe line containing flowing fluid" 1952
Box 23, Folder 4	"A Dynamic test of a four-story reinforced concrete building" 1953
Box 23, Folder 5	"Spectrum analysis of strong-motion earthquakes" 1953
Box 23, Folder 6	"Ground shock and building motions produced by a quarry blast" 1953
Box 23, Folder 7	"Earthquake tests to determine building accelerations produced by strong ground motions" 1953
Box 23, Folder 8	"Measured response of a structure to an explosive-generated ground shock" 1954
Box 23, Folder 9	"Earthquake resistant design based on dynamic properties of earthquakes" 1954
Box 23, Folder 10	"Effect of foundation compliance on earthquake stresses in multistory buildings" 1954
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Box 23, Folder 13	"Structural vibrations produced by ground motion" 1955
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Box 23, Folder 18	"Behavior of structures in earthquakes" 1957
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Box 23, Folder 20	"Structural vibrations produced by ground motion" 1957
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	Originally published in 1955.
Box 23, Folder 21	"Le calcul des ouvrages resistant aux tremblements de terre sur la base des propriétés dynamiques de ceux-ci" 1957
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	Originally published in English in 1956.
Box 23, Folder 22	"The Mechanism of sandblows" 1958
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Box 23, Folder 24	"An analysis of strong-motion accelerometer data from the San Francisco earthquake of March 22, 1957" 1958
Box 23, Folder 25	"The effect of torsional oscillations on earthquake stresses" 1958
Box 23, Folder 26	"Problems of earthquake engineering research" 1959
Box 23, Folder 27	"Behavior of structures during earthquakes" 1959
Box 23, Folder 28	"Design of nuclear power reactors against earthquakes" 1960
Box 23, Folder 29	"The earthquake ground shock problem and its relation to the explosive-generated ground shock problem" 1960
Box 23, Folder 30	"Integrated velocity and displacement of strong earthquake ground motion" 1961
Box 23, Folder 31	"The groundshock problems of earthquakes and explosions" 1961
Box 23, Folder 32	Discussion paper: "Effect of structure and foundation interaction," by Daniel L. Lycan and Nathan N. Newmark 1962
Box 23, Folder 33	"The significance of the natural periods of vibrations of structures" 1962
Box 23, Folder 34	"Dynamic behavior of supercritically loaded struts" 1962
Box 23, Folder 35	"The behavior of inverted pendulum structures during earthquakes" 1963
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Box 24, Folder 3	"Earthquake research problems of nuclear power plants" 1966
Box 24, Folder 4	"Analysis of accelerograms -- Parkfield earthquake" 1967

Series 3. **Writings**

Subseries 3. **Reprints**

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Box 24, Folder 17	"The capacity of extreme earthquake motions to damage structures" 1977
Box 24, Folder 18	"Hydrodynamics pressures on sloping dams during earthquakes" 1978
Box 24, Folder 19	"The momentum balance method in earthquake engineering" 1978
Box 24, Folder 20	"A Broad view of the state of knowledge in earthquake engineering" 1981
Box 24, Folder 21	"Natural disasters and engineering" 1991

Series 4. Consulting Files

Subseries 1. Domestic

Box 25, Folder 1	Los Angeles Veterans Administration 1947
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	US National Workshop on Strong-Motion Instrumentation
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Box 58, Folder 22 **Pasadena Foothill Freeway (US Route 210) undated**
Box 58, Folder 23 **Los Angeles structures: Watts Towers 1959**
Box 58, Folder 24 **Los Angeles structures: LA high-rise buildings undated**
Box 58, Folder 25 **Los Angeles structures: Bunker Hill high-rise buildings 1982**
Box 58, Folder 26 **Los Angeles structures: LA high-rise buildings 1988**
Box 58, Folder 27 **Los Angeles structures: LA buildings 1991**
Box 58, Folder 28 **Los Angeles structures: LA City Hall 1996**
Box 58, Folder 29 **Structures outside the USA: Lima, Peru 1978**
Box 58, Folder 30 **Structures outside the USA: Tokyo Electric Power Company Thermal Station 1983**
Box 58, Folder 31 **Structures outside the USA: Institute of Industrial Science, Tokyo University 1983**
Box 58, Folder 32 **Structures outside the USA: Tsukuba City Research Labs 1983**
Box 58, Folder 33 **Structures outside the USA: Japan visit 1987**
Box 58, Folder 34 **Structures outside the USA: Tokyo buildings 1987**
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Box 59, Folder 1 **Structures outside the USA: Japan visit 1992**
Box 59, Folder 2 **Structures outside the USA: Japan visit 1993**
Box 59, Folder 3 **Structures outside the USA: Tokyo steel buildings 1994**
Box 59, Folder 4 **Structures outside the USA: Tokyo buildings undated**
Bridges slides
Box 59, Folder 5 **History of bridges undated**
Box 59, Folder 6 **Glass slides: "History of bridges" undated**
Box 59, Folder 7 **Eads Bridge, St. Louis undated**
Box 59, Folder 8 **Golden Gate Bridge, San Francisco undated**
Box 59, Folder 9 **Bridges in Japanese printings undated**
Box 59, Folder 10 **Harbor Freeway (California Route 110) bridges undated**
Box 59, Folder 11 **Southern California freeway bridges undated**
Dams slides
Box 59, Folder 12 **Auburn Dam undated**
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Box 59, Folder 14 **Morris Dam undated**

Series 6. **Slides and Photographs**

Subseries 1. **Slides**

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Box 59, Folder 16	Teton Dam undated
	Earthquakes slides
Box 59, Folder 17	San Francisco earthquake 1906
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Box 59, Folder 19	Alaska earthquake 1964
Box 59, Folder 20	Niigata earthquake, Japan 1964
Box 59, Folder 21	San Fernando earthquake 1971
Box 59, Folder 22	Managua earthquake, Nicaragua 1972
Box 59, Folder 23	Loma Prieta earthquake 1989
Box 59, Folder 24	Olympia, Washington pre-earthquake 1991
Box 59, Folder 25	Whittier earthquake undated
Box 59, Folder 26	San Andreas Fault undated
Box 59, Folder 27	Kerry Sieh in San Andreas Fault trench undated
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Box 60, Folder 1	Land subsidence undated
Box 60, Folder 2	New Olive View Hospital building undated
Box 60, Folder 3	Earthquake pressures on dams undated
Box 60, Folder 4	Strong motion accelerographs undated
Box 60, Folder 5	Earthquake apparatus undated
Box 60, Folder 6	Parksfield seismoscope undated
Box 60, Folder 7	Caltech's seismic laboratory 1920s
Box 60, Folder 8	Caltech-USGS Broadcast of Earthquakes (CUBE) equipment 1992-1993
Box 60, Folder 9	Roorkee University Earthquake Laboratory, India undated
Box 60, Folder 10	US-China Workshop in Earthquake Engineering, China 1982
Box 60, Folder 11	National Geographic earthquake slides undated
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Box 60, Folder 13	USGS brochure: "Facing geological hazards" undated
Box 60, Folder 14	Japanese earthquake brochure undated
Box 60, Folder 15	Japanese disaster printings undated
Box 60, Folder 16	Japanese disaster wood block printings undated
Box 60, Folder 17	Earthquake miscellaneous undated
Box 60, Folder 18	ERA field trips 1972
Box 60, Folder 19	ERA field trips 1974
Box 60, Folder 20	ERA field trips 1979
Box 60, Folder 21	ERA field trips 1980
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	Miscellaneous slides
Box 60, Folder 24	Building of San Onofre nuclear plant undated
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Box 60, Folder 26	Cartoons and caricatures undated

Subseries 2. **Photographs**

Box 60, Folder 27	Portrait photos of George W. Housner undated
Box 60, Folder 28	Photos with colleagues and students undated
	Group photos
Box 60, Folder 29	1 st World Conference on Earthquake Engineering 1956
Box 60, Folder 30	3 rd World Conference on Earthquake Engineering 1965
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Box 60, Folder 33	US-China Workshop in Earthquake Engineering 1982
Box 60, Folder 34	Group photo at the Athenaeum 1989
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Box 60, Folder 36	International Workshop on Structural Control 1993

Series 6. Slides and Photographs

Subseries 2. Photographs

Box 60, Folder 37	First World Conference on Structural Control 1994
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	Travel photos
Box 61, Folder 1	Japan visit 1989-1994, 1996, 1998
Box 61, Folder 2	Japan visit undated
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	Buildings photos
Box 61, Folder 5	Caltech undated
Box 61, Folder 6	Jet Propulsion Laboratory undated
Box 61, Folder 7	Pasadena undated
Box 61, Folder 8	San Bernardino Hospital undated
Box 61, Folder 9	Seattle proposed building undated
Box 61, Folder 10	Tokyo steel buildings 1994 Dec
Box 61, Folder 11	Miscellaneous buildings undated
	Earthquakes photos
Box 61, Folder 12	El Centro 1940
Box 61, Folder 13	Koyna 1967
Box 61, Folder 14	Coalinga, California 1983
Box 61, Folder 15	San Andreas Fault undated
Box 61, Folder 16	Strong-motion accelerographs undated
Box 61, Folder 17	Miscellaneous earthquake photos undated
	Miscellaneous photos
Box 61, Folder 18	Cal State University, Music Hall construction 1990
Box 61, Folder 19	Filtration plant undated
Box 61, Folder 20	New Guinea tank undated
Box 61, Folder 21	Oil pumps at Coalinga, California 1983
Box 61, Folder 22	University of Roorkee, India 1958
Box 61, Folder 23	Vincent Thomas Bridge undated
Box 61, Folder 24	Water crater undated

Series 7. Biographical

Box 62, Folder 1 **Curriculum vitae 1988, 1993, 1999**
Box 62, Folder 2 **Autobiographical sketch of George William Housner undated**
Box 62, Folder 3 **Newspaper clippings 1974, 1988-1990**
Box 62, Folder 4 **Radio talk: "Voice of America," engineering program 1967**
Awards and honors
Box 62, Folder 5 **Medal of Science 1988**
Box 62, Folder 6 **George W. Housner Medal 1989**
Box 62, Folder 7 **Engineering and Science Hall of Fame 1990**
Box 62, Folder 8 **Engineering Academy of Japan 1991**
Box 62, Folder 9 **Japan Academy 1991**
Box 62, Folder 10 **Founders award, National Academy of Engineering 1991**
Box 62, Folder 11 **Institute of Engineering Mechanics, State Seismological Bureau of China 1993**
Box 62, Folder 12 **Washington award, Western Society of Engineering 1994-1995**
Box 62, Folder 13 **CUREe Symposium in honor of George Housner 1995**
Box 62, Folder 14 **Awards and honors, correspondence and documents 1967-1991**
World War II
Box 62, Folder 15 **Operations Analysis, Air Force, history 1943-1945**
Box 62, Folder 16 **Civilian Service Award correspondence 1943-1946**
Box 62, Folder 17 **Earthquake Engineering Research Program 1956, 1971, 1974, 1984**
Uniform Building Code
Box 62, Folder 18 **International Conference of Building Officials 1970**
Box 62, Folder 19 **American Society of Civil Engineers 1979**
Box 62, Folder 20 **City of Pasadena, Earthquake Preparedness Project 1981-1982**
Box 62, Folder 21 **City of Los Angeles, Old Building Code trial 1982-1983**
Box 62, Folder 22 **Seismic zoning of building codes 1984**
Box 62, Folder 23 **Newspaper clipping: Los Angeles Building Code 1973**
Box 63, Folder 1 **Obituary: C. Martin Duke 1988**
Box 63, Folder 2 **Obituary: Donald E. Hudson 1999**
Biographical miscellaneous
Box 63, Folder 3 **Alan T. Waterman Award 1980**
Box 63, Folder 4 **Book: "Capital letters, twin and multiple-print," by G. Van den Bergh 1958**
Box 63, Folder 5 **Cartoons and caricatures undated**
Box 63, Folder 6 **Collapse of structures 1987, 1989**
Box 63, Folder 7 **Crank letters regarding earthquakes 1950-1979**
Box 63, Folder 8 **Chinese poems 1982**
Box 63, Folder 9 **Chinese earthquake pill undated**
Box 63, Folder 10 **Fables and fallacies regarding earthquakes undated**
Box 63, Folder 11 **Hammurabi's Code of Laws regarding buildings undated**
Box 63, Folder 12 **Japanese earthquake poem undated**
Box 63, Folder 13 **Humor: E 2=MC 2=A 2+B 2 1989**
Box 63, Folder 14 **Humor: "Evils of drink" undated**
Box 63, Folder 15 **Humor: Speaker's source notes for talks undated**
Box 63, Folder 16 **Humor: Odd names undated**

Series 8. Oversize

Subseries 1. Plaques

- Box 64, Folder 1 **Honorary Member, Structural Engineers Association of Southern California 1964**
Box 64, Folder 2 **Memento plaque, Earthquake Engineering Research Institute 1966**
Box 64, Folder 3 **Certificate of Participation in the Seminar on Seismic Design of Reinforced Concrete Buildings, organized by the Southern California Chapter of the American Concrete Institute undated**
Box 64, Folder 4 **Honorary Member, Society for Experimental Stress Analysis 1972**
Box 64, Folder 5 **Honorary Award, Organizing Committee of the [7 th] World Congress of Earthquake Engineering 1980**
Box 64, Folder 6 **Honorary Award, International Association of Assessing Officers, LA County Chapter 1985**
Box 65, Folder 1 **Earthquake Engineering Award of the Japan Association of Earthquake Disaster Prevention 1988**
Box 65, Folder 2 **Distinguished Lecturer, Earthquake Engineering Research Institute 1992**

Note

Awarded on Feb 8, 1991.

- Box 65, Folder 3 **Honorary Award, Asociación Española de Ingeniería Sísmica 1992**
Box 65, Folder 4 **Honorary Doctor of Science, University of Michigan 1992**

Note

Paper certificate placed in Box 66.

- Box 65, Folder 5 **Plaque given to G. W. Housner by a former student Julio Hurora 1995**
-

Subseries 2. Medals

- Box 66, Folder 1 **Vincent Bendix Award for Engineering College Research, American Society for Engineering Education 1967**

Note

Certificate placed in box 68.

- Box 66, Folder 2 **California Institute of Technology [Retirement] Medal 1981**
Box 66, Folder 3 **Society Medal, Seismological Society of America 1981**
Box 66, Folder 4 **Nathan M. Newmark Medal for Research, American Society of Civil Engineers 1982**

Note

Certificate placed in box 70.

- Box 66, Folder 5 **National Medal of Science 1988**

Note

Certificate placed in box 68.

- Box 66, Folder 6 **George W. Housner Medal, Earthquake Engineering Research Institute 1989**
Box 66, Folder 7 **Alfred E. Alquist Award, Earthquake Safety Foundation 1991**
Box 66, Folder 8 **Founders Award Medal, National Academy of Engineering 1991**

Note

Certificate placed in box 70.

Box 66, Folder 9 **Medal: Honorary Member, Japan Society of Civil Engineers 1992**

Note

Certificate placed in box 70.

Box 66, Folder 10 **Washington Award Medal, Western Society of Engineers 1995**

Note

Plaque placed in box 70.

Subseries 3. **Paper Awards, Rolls, and Memorabilia**

Box 67, Folder 1 **Master of Science in Civil Engineering Diploma, California Institute of Technology 1934**

Box 67, Folder 2 **State of California Civil Engineer registration certificate 1937**

Box 67, Folder 3 **Doctor of Philosophy (cum laude) in Civil Engineering, California Institute of Technology 1941**

Box 67, Folder 4 **National Academy of Engineering Diploma 1965**

Box 67, Folder 5 **Citation for contributions in seismology and earthquake engineering, Institute for the Advancement of Engineering 1968**

Box 67, Folder 6 **Fellow, American Geophysical Union 1968**

Box 67, Folder 7 **Certificate: Member of the US Committee of the International Commission on Large Dams 1968**

Box 67, Folder 8 **Certificate: Member of California's Governor's Earthquake Council 1972**

Note

Served as a Council member in 1971-1976.

Box 67, Folder 9 **Certificate for distinguished service to the Applied Mechanics Reviews publication, American Society of Mechanical Engineers 1972**

Box 67, Folder 10 **Honorary Member, International Association for Earthquake Engineering 1973**

Box 67, Folder 11 **Award for Excellence in Earthquake Engineering, European Committee for Earthquake Engineering 1975**

Box 67, Folder 12 **Life Member Diploma, American Society of Civil Engineers 1976**

Box 67, Folder 13 **Fellow, American Association for the Advancement of Science 1978**

Box 67, Folder 14 **Certificate for valuable contributions to the Third Canadian Conference on Earthquake Engineering 1979**

Box 67, Folder 15 **Honorary Member, La Asociación Peruana de Ingeniería Sísmica 1980**

Box 67, Folder 16 **Member, Indian National Science Academy 1984**

Box 67, Folder 17 **Life membership, New Zealand National Society for Earthquake Engineering 1985**

Box 67, Folder 18 **Certificate of Commendation, City of Los Angeles 1985**

Box 67, Folder 19 **Certificate for extraordinary efforts in advancing the public's earthquake safety, Earthquake Engineering Research Institute 1989**

Box 67, Folder 20 **Birthday greetings, City of Los Angeles 1990**

Box 67, Folder 21 **Certificate for valuable contributions as a member of the Earthquake Spectra Editorial Board, Earthquake Engineering Research Institute 1991**

Box 67, Folder 22 **Fellow, American Academy of Arts and Sciences 1991**

Box 67, Folder 23 **Artist's rendering of a seismocup building, given to G. W. Housner during CUREe Symposium, New Zealand 1995**

Box 67, Folder 24 **Birthday cardboard from members of the Earthquake Resistant Structure Research Center, University of Tokyo undated**

Box 67, Folder 25 **Fellow, American Concrete Institute undated**

Box 68, Folder 1 **Civilian Service Award, US War Department 1946**

Box 68, Folder 2 **Certificate: Vincent Bendix Award for Engineering College Research, American Society for Engineering Education 1967**

Note

Medal placed in box 66.

Subseries 3. **Paper Awards, Rolls, and Memorabilia**

Box 68, Folder 3	Certificate: Member, National Academy of Sciences 1972
Box 68, Folder 4	Certificate: National Medal of Science 1988
	Note
	Medal placed in box 66.
Box 68, Folder 5	Diploma: Fellow, American Academy of Arts and Sciences 1991
Box 68, Folder 6	Roll: Honorary Membership of the Japan Academy 1991
	Note
	In Japanese.
Box 68, Folder 7	Roll: Honorary member, Architectural Institute of Japan 1992
	Note
	In Japanese.
Box 68, Folder 8	Certificate: Lifetime Achievement Award, Los Angeles Area Chamber of Commerce 1995
	Paper awards in binders
Box 69, Folder 1	Arthur Newell Talbot Lectureship, University of Illinois 1984
Box 69, Folder 2	Foreign Associate Certificate, Engineering Academy of Japan 1991
Box 69, Folder 3	Honorary Doctor of Science certificate, University of Michigan 1992
	Note
	Plaque placed in box 65.
Box 69, Folder 4	Honorary Member, Architectural Institute of Japan 1992
	Note
	Pin placed in box 70.
Box 69, Folder 5	Honorary Professor, Institute of Engineering Mechanics, China 1993
Box 69, Folder 6	Norman Medal Award, American Society of Civil Engineers 1999
Box 70, Folder 1	Theodore Von Kármán Medal certificate, American Society of Civil Engineers 1974
Box 70, Folder 2	Nathan M. Newmark Medal for Research, American Society of Civil Engineers 1982
	Note
	Medal placed in box 66.
Box 70, Folder 3	Honorary Member, American Society of Civil Engineers 1990
Box 70, Folder 4	Founders Award, National Academy of Engineering 1991
	Note
	Medal placed in box 66.
Box 70, Folder 5	Honorary Member, Japan Society of Civil Engineers 1992
Box 70, Folder 6	Plaque: Washington Award 1995
	Note
	Medal placed in box 66.
Box 70, Folder 7	Medal: Sociedad Mexicana de Ingeniería Sísmica 1996
	Note
	Medal placed in box 66.

Series 8. **Oversize**

Subseries 3. **Paper Awards, Rolls, and Memorabilia**

Box 70, Folder 8
Box 70, Folder 9
Box 70, Folder 10

Plastic card: Life membership card of the American Society of Civil Engineers 1976
Cuffs and pin, Japan Society of Civil Engineers probably 1992
Pin: Honorary Member, Architectural Institute of Japan 1992

Note

Certificate placed in box 69.

Box 70, Folder 11
Box 70, Folder 12
Box 70, Folder 13
Box 70, Folder 14
Box 71, Folder 1

Quartz clock in marble holder, Structural Engineers Association of California Fellow 1998-1999
American Association for the Advancement of Science rosette 1990s
Memento from the Structural Engineers Association of Southern California undated
Brass paperweight AΘE undated
Glass paperweight, Society for Earthquake and Civil Engineering Dynamics, Mallet-Milne Lecture 1989 May 24