

Accession No.: 82-57

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

Bradner, Hugh 1915-2008

Hugh Bradner Papers, 1938-1981

BULK DATES: 1938-1973

PHYSICAL DESCRIPTION: 9 record center cartons

ARRANGEMENT: student notes, 1930's-1940's; old correspondence, 1940-1960; laboratory notebooks, 1960-1970; lecture notes, 1970-74; appointment calendars, 1970-1980; chronological files, 1960-1973; alphabetical subject files, 1970-73.

DESCRIPTION: The collection includes correspondence, memoranda, student notes, lecture notes, research notes, appointment calendars, speeches, committee files and other papers documenting the career and life of Hugh Bradner during the period 1938-1981. The collection includes the following series: student notes, 1930's-1940's; old correspondence, 1940-1960; laboratory notebooks, 1960-1970; lecture notes, 1970-74; appointment calendars, 1970-1980; chronological files, 1960-1973; alphabetical subject files, 1970-73. The collection also includes files on Brobeck, General Atomic, MACI, MACII, Miami University, Monopoles, NRI and Physics.

The collection is particularly strong in correspondence and other material documenting Bradner's work on diving, diving instrumentation and the physiology of divers. This material is largely contained in correspondence dated 1942-1960. The collection contains very little material documenting Bradner's work at the Lawrence Lab at Berkeley; Bradner discarded his papers documenting his career at Berkeley.

Ten items of correspondence and memoranda concerning the design of the wet suit were sent to the Archives by Bradner in August, 1975. These were reintegrated into the Diving Correspondence series of the Bradner Papers.

BOX FOLDER TITLE**STUDENT NOTES**

- 1 Physics, 1st term 1937-38, Atomic Physics, Millikan
- Physics, Electro-Magnetism I, 1st term 1937-38, Smythe
- Physics, Optics I, 1st term 1937-38, Bowen
- Math, Advanced Calculus, 1st term 1937-38, Birchby
- Atomic Physics II, 2d term 1937-38, Spectroscopy, Bowen
- Physics, Electro-Magnetism II, 2d term 1937-38, Smythe
- Physics, Optics II, 2d term 1937-38, Bowen
- Math, Advanced Calculus II, 2d term 1937-38, Birchby
- Physics, Atomic Physics III, 3d term 1937-38, Nuclear Physics, Anderson, Stephens
- Physics, Electro-Magnetism III, 3d term 1937-38, Smythe
- Math, Advanced Calculus III, 3d term 1937-38, Birchby
- Math, Tensor Analysis I, 1st term 1938-39, Michal
- Physics Electro-Magnetism II, III, 2d term 1938-39, 3d term 1938-39, Epstein
- Physics, Quantum Mechanics I, 3d term 1938-39, Houston
- Math, Math Analysis I, II, III, 1939-40, Ward
- Thermodynamics, Fall Term, 1939-40, Eppy IV
- Physics, Quantum Mechanics II, 1st term 1939-40, Theory of Metals, Houston
- Physics, Quantum Mechanics III, Eppy V, 2d, 3d terms 1940, Epstein
- Doctorate Orals Outline, December 12, 1940
- Thesis, 1941, "Electron-Optical Studies of the Photoelectric Effect," California Institute of Technology dissertation.
- Research,[Laboratory Notebook], Electron Microscope, March 19, 1938-1941
- Bradner, [Laboratory Notebook], "Pure" Physics, Diving, 1951
- H2O [Laboratory Notebook], 1952
- Hugh Bradner Personal, Edmund Salvage Company, 1944-46
- Hugh Bradner Personal, 1944
- 1945-1947

BOX FOLDER TITLE**CORRESPONDENCE**

- | | |
|---|---|
| 1 | 94. General Correspondence, Diving, 1946-1960, A
95. B
96. C
97. Davenport-Delphin-Zeitschrift
97. Diehl-Dietz
97. Dill
97. Directory-Dwyer
98. E
99. F
100. Galambos-Goff, 1956
100. Goff, 1957-Groves
101. Hageman-Hahn, 1952
101. Hahn, 1953
101. Hahn, 1954-Hemingway
102. I
103. J
104. K
105. Lambersen, Christian
105. Lamphier, E.H.
105. Limbaugh, Conrad
105. Livingston, Robert
105. Lorenz, Robert N.
106. McAllister-Marshall
106. Mason-Murray
107. N
108. O
109. P
110. Q
111. Rechnitzer-Revelle, 1953
111. Revelle, 1954-Rothmann |
| 2 | 112. S
113. Townes |

BOX FOLDER TITLE**CORRESPONDENCE**

- 2 114. General Correspondence, Diving, 1946-1960, U
 115. Vilarem, Francois
 116. Waterlung-Wood
 116. Wren, James
 118. Research Discussions, 1956-1963
 119. SCUBA Statewide Committee, 1954-55
 119. SCUBA Statewide Committee, 1956
 119. SCUBA Statewide Committee, 1957
 119. SCUBA Statewide Committee, April-November, 1957
 119. SCUBA Statewide Committee, 1958-59
 119. SCUBA Statewide Committee, 1960-61
 120. SCUBA Berkeley Committee, 1953-54
 120. SCUBA Berkeley Committee, 1955-57
 120. SCUBA Berkeley Committee, 1958
 120. SCUBA Berkeley Committee, February-December, 1958
 120. SCUBA Berkeley Committee, 1959-60
 123. Regulator Overhaul, 1956-1965
 124. Diving Accident Report; 125. Logs; 126. Applications;
 127. Certificates, 1956
 131. Pacific, 1954
 132. Mackay, R. Stuart, 1956-1963
- L** 133. Patents, 1953-54
 133. Patents, 1953-54
 134. Photographs and Sketches, 1954
 135. Panel [on Underwater Swimmers] Meetings, 1951-53
 136. Underwater TV, 1955
 137. Reports, 1951-59
 138. Decompression Chambers, 1952-53
 138. Decompression Chambers, 1954
 139. "Technical Diving" Magazine, 1956
 155. Correspondence, 1954-56 [re Conseil Europeen Pour la Recherche Nucleaire], 1954
 155. Correspondence [re CERN], January-May, 1955
 155. Correspondence [re CERN], June, 1955-February, 1956

BOX FOLDER TITLE**CORRESPONDENCE**

- 2 155. General Correspondence, Diving, 1946-1960, Correspondence [re Conseil Européen Pour la Recherche Nucleaire (CERN)], May, 1956-1957
Correspondence, 1958-1960, B-C
165. General Correspondence, 1946-1960, D
167. E
168. F
170. G
172. Hall-Henri
172. Heroy-Hodgson
172. Hofstadter-Hull
173. I
174. Jetter-Jones
174. Jeanneret
175. K
176. Laboratory Technical Meeting on Data Reduction-Lattes
176. Lauritsen-Lyman
177. McCormick-Marshall
177. Massachusetts Institute of Technology-Mitchell
177. Morand-Munk
177. Murray, William, 1954
178. N
- L** 178. National Research Council European Reports, September 2-8, 1954
- L** 178. National Research Council European Reports, September 10-11, 1954
- L** 178. National Research Council European Reports, September 30- October 10, 1954
178. O
180. Pais-Pevsner
180. Phillips-Power
181. Photogrammetry, October, 1958
181. Photogrammetry, November-December, 1958
181. Photogrammetry, January-October, 1959
181. Photogrammetry, [Catalogs and References]

BOX FOLDER TITLE**CORRESPONDENCE**

- 2 187. General Correspondence, Diving, 1946-1960, R
 189. Safety-Shelton
 189. Shepard-Souci
 189. Speer-Steinberger
 189. Stevenson-Swartzel
 190. T
 193. U
 194. V
 195. W
 196. X, Y, Z
 232. Magnetometer, 1952
 260A. Physical Society Meeting, January, 1960
 261. American Association for the Advancement of Science, Photogrammetry Meeting, December, 1958
 261A. Hawaii, American Physical Society [Meeting], 1959
 262. Oak Ridge [High Energy Physics Symposium], August, 1957
- 3 262A. Institute of Radio Engineers, Meeting, January, 1960
 266. Oregon Meeting, [American Physical Society], 1956
- Correspondence, 1953-56, A
 Applied Radiation Corporation, 1954
 Applied Radiation Corporation, 1955
 B
 C
 de Lassus-Dietz
 Dill-Dumas
 E
 F
 G
 H
 Heberlein, Hermann, 1954-57
 Heberlein, Hermann, Newspaper Clippings, 1955
 Jeanneret, Rene, 1954-55
 K
 L

BOX FOLDER TITLE**CORRESPONDENCE**

- 3 Correspondence, 1953-56, Lecture Notes
- M
- Miscellaneous
- N
- National Research Council [Committee on Undersea Warfare, Panel on Underwater Swimmers], 1954
- National Research Council, [Committee on Undersea Warfare, Panel on Underwater Swimmers], January, 1955
- National Research Council, [Committee on Undersea Warfare, Panel on Underwater Swimmers], March-July 1955
- National Research Council, [Underwater] Safety Committee, 1955
- Publications, n.d.
- Publications, 1954
- Publications, 1955
- Publications, Skin Diver
- R
- Salvas-Seafarer
- Skin Diver-Spirotechnique
- T
- W
- Correspondence, 1957
- 1961
- January-February, 1962
- March-May, 1962
- June-September, 1962
- October-December, 1962
- James G. Dodds, 1962-63
- January-March, 1963
- April, 1963
- May-June, 1963
- July, 1963
- September-December, 1963
- January-March, 1964

BOX FOLDER TITLE**CORRESPONDENCE**

3 April-May, 1964
June, 1964
July, 1964
August-September, 1964
October-December, 1964
January-February, 1965
March-April, 1965
May-June, 1965
July-August, 1965
September-October, 1965
November-December, 1965
January-March, 1966
April-June, 1966
July-September, 1966
October-December, 1966
January-June, 1967
July-December, 1967
March-June, 1968
July-October, 1968
November-December, 1968
March-April, 1969
May-June, 1969
July-September, 1969
October-December, 1969
January-March, 1970
April, 1970
May, 1970
June, 1970
July, 1970
August-September, 1970
October, 1970

BOX FOLDER TITLE**CORRESPONDENCE**

- 4 Correspondence, November, 1970
 December 1-15, 1970
 December 16-31, 1970
 Amchitka, 1970
 January-February 15, 1971
 February 16-28, 1971
 March, 1971
 April-May, 1971
 May-June 12, 1971
 June 23-July 8, 1971
 July 9-August, 1971
 September-December, 1971
 Sabbatical, 1971
 Marine Biomedical Institute, Chron File, October-November, 1971
 Marine Biomedical Institute, Chron File, December, 1971-1972
 January-April, 1972
 May-June 1972
 July-December, 1972
 January-March, 1973
 April-May, 1973
 June-July, 1973
 August-December, 1973
 [Correspondence] Indexes, 1973-1981
 January, 1974
 February-March, 1974
 April-June, 1974
 July-September, 1974
 October-December, 1974
 January-March, 1975
 April-June, 1975
 July-September, 1975
 October-December, 1975

BOX FOLDER TITLE**CORRESPONDENCE**

- 4 Correspondence, January-April, 1976
 May-August, 1976
 September-December, 1976
 January-February, 1977
 March-June, 1977
 July-September, 1977
 October-December, 1977
 DUMAND Chronological File, 1977
 DUMAND Chronological File, January, 1978
 DUMAND Chronological File, February-October, 1978
 January-April, 1978
 May-August, 1978
 September-October, 1978
 November-December, 1978
 January-July, 1979
 August-September, 1979
 October-December, 1979
 January-August, 1980
 September-December, 1980
 DUMAND Chronological File, December, 1980
 January-June, 1981
 July-December, 1981
 DUMAND Chronological File, January-February, 1981
 DUMAND Chronological File, March 1-11, 1981
- 5 DUMAND Chronological File, March 18, 1981
 DUMAND Chronological File, March 20-31, 1981
 DUMAND Chronological File, April, 1981
 DUMAND Chronological File, May, 1981
 DUMAND Chronological File, June-July, 1981
 DUMAND Chronological File, August, 1981
 DUMAND Chronological File, September-October, 1981

BOX FOLDER TITLE**LABORATORY AND COMPUTATION NOTEBOOKS**

- 5 Laboratory Notebook, September, 1952-1953
 October 28, 1958-March 31, 1959
 September, 1959-March 3, 1960
 October 7, 1959-April 16, 1961
 March 8, 1960-September 30, 1960
 Ocean-bottom seismograph, 1, OBS I, September, 1961- September, 1962
 La Jolla Miscellaneous, 1962-1967
 Computation Notebook, Whitcomb #1, December, 1963
 Glub III and ff, July, 1963~October, 1964
 Midwater Seismometer, notes, 1964
 A Free Plotting Midwater Seismometer, Louis G. de Jerphanion, Ames, 1965-1968
 Foulkes I, 1964
 Foulkes 2, July 28, 1963-September 27, 1968
 Foulkes 3, G1ub, Data Reduction, Data Computations,
 Ocean bottom Seismic Records, Summer, 1963-Spring, 1965
 Foulkes 4, November 9, 1964-July, 1965
 Foulkes 5, May 27-August, 1965
 Foulkes 6, Data Reduction 2, Chase V, etc., Post March, 1966
 Bradner, Tom Madden, Freeman Gilbert, Spring, 1964-Fall, 1967
 November 1964-November, 1967
 Bradner, August, 1967
 Chronological Catch All, September, 1967-June, 1969
 General Notebook, Bradner, June, 1969-December, 1971
- 6 Bradner, January 1, 1972-July, 1975
- SUBJECT FILES, A-Z, 1950-1965**
 Mead Bradner, Audiograms, 1957
 William M. Brobeck and Associates, Company Brochure, n.d.
 n.d.
 1960-65

BOX FOLDER TITLE**SUBJECT FILES, A-Z, 1950-1965**

- 6 William M. Brobeck and Associates, Company Brochure, 1964
 Laboratory Notebook, February, 1964
 Bubble Chamber Proposal, September 1, 1964
 CERN Miscellaneous, n.d.
 April-June, 1954
 July-December, 1954
 1955
 Linac Theory and Design, 1954-55
 Travel, 1961
 Travel, Receipts, 1961
 General Atomic, 1956-1959
 1960
 1961
 Notebook, 1961
 1962
 1963-64
 1965
 1966-69
 Mine Advisory Committee, n.d.
 n.d.
 Guidance Memoranda #2, n.d.
 1959-1960
 January-June, 1961
 August-December, 1961
 January-February, 1962
 April-November, 1962
 December, 1962
 1963
 January-May, 1965
 August-December, 1965
 Ready-Round Panel, 1967-68 1968
 Hihn Readiness Report, May, 1968

BOX FOLDER TITLE**SUBJECT FILES, A-Z, 1950-1965**

- 6 Mine Advisory Committee], A Brief History of Mine Warfare, Prepared by Robert Winters, Robert Albion, Andrew Patterson, July 1968, Committee Document #2.
 Summer Study, 1968-69
 Miami University (Ohio), 1959
 January-November, 1960
 December, 1960
 Remarks to the Graduating Class by Hugh Bradner, January, 1961
 1961-1962
 Miscellaneous file, Nuclear Physics Information, Lawrence Berkeley Laboratory and Cern, Charge Exchange Beam, n.d.
 Huge Accelerator, November 30, 1960
 1960-1962
 Machine Data and Beams (other than Charge Exchange), 1961
 Miscellaneous Nuclear Physics Information, 1956-1962
 Miscellaneous Nuclear Physics Information, Relativistic Calculation, n.d.
 Miscellaneous Physics Data, n.d.
- 7 Monopoles I, Hydrogen Safety, n.d.
 n.d.
 1957-1960
 January-February, 1961
 March-December, 1961
 Hydrogen Safety, 1955-56
 Hydrogen Safety, 1957-58
 Hydrogen Safety, 1959-61
 Hydrogen Safety, Monopole Scanning Data, 1958
 Monopoles II, 1959-1960
 March-September, 1960
 October, 1960-1961
 Monopoles III, n.d.
- L n.d.
 January-April, 1961
 May, 1961

BOX FOLDER TITLE**SUBJECT FILES, A-Z, 1950-1965**

- 7 Monopoles III, June, 1961
 July-August, 1961
 Monopole Trajectories, 1961
 Monopoles IV, n.d.
 All Things Chronological [Notebook] Mainly Monopoles,
 October 1, 1960-March 8, 1961
 [Notebook] March 9-May, 1961
 Search for Dirac Magnetic Poles, n.d.
 Search for Dirac Magnetic Poles, n.d.
 Search for Dirac Magnetic Poles, n.d.
 April, 1960-May, 1961
 July-December, 1961
 January-May, 1962
 July, 1962-July, 1963
 Nuclear Research Instruments, 1961
 [Notebook,] 1961
 Photographs and Negatives of Foster Wearing the] Wetsuit, c. 1953
 Wet Suits at Time of Sealab II, notes, n.d.
 notes, n.d.
 Chelates (Calvin), 1956
 1950-1958
 1959-1961
 Prints from Early Skin Diver Ads, c1963
 1965-1969
 1976

SUBJECT FILES A-Z, 1961-1973

- Air Force Letters, 1961
 UCSD, IGPP Final Report, "Analysis of Seismic Records and Deep Sea Seismic
 Recording, July 27, 1962.
 August-December, 1962

BOX FOLDER TITLE**SUBJECT FILES, A-Z, 1961-1973**

- 7 Air Force Letters, 1963
 1964
 UCSD, IGPP Final Report, "Study of Earth Noise on Land and Sea Bottom,"
 September 10, 1964, 1-6
 UCSD, IGPP Final Report, "Study of Earth Noise on Land and Sea Bottom,"
 September 10, 1964, 7-10
 1965
 1966
 UCSD, IGPP Semi-Annual Technical Summary Report, "Study of Earth Noise
 on Land and Sea Bottom, August 18, 1967
 Air Force Office of Scientific Research, Progress Report (Contract 1388), 1965, 1967
 Air Force Office of Scientific Research Correspondence, (Mr. Best), 1963-64
 1965-69
 Equipment Grant, Seismometers, 1965
 Equipment Bids for UCSD 1261 (Proposal 5/64-4/67), 1964
 Correspondence, Miscellaneous (not on Budget or Grant), 1962-64
 Progress Reports, AF49 (638)-905, 1962-65
 Reports to Advanced Research Projects Agency, 1969-70
 1971-72
 Advanced Research Projects Agency, 1962, 1970-1973
- 8 Reprints, Preprints, Overpressure, c1970
 Airborne Operation, March, 1971
 April, 1971
 May-September 1971
 Ueber Submarine Erdbeben und Eruptionen, E. Randolph
 Ueber Submarine Erdbeben und Eruptionen, E. Randolph
 ACR Electronics Corporation, January, 1962-July, 1965
 A 70 SR-OBS, n.d.
 Accelerometers, n.d.
 July 20, 1960-November, 1968
 December, 1968-May, 1973
 AOS, n.d.

BOX FOLDER TITLE**SUBJECT [FILES] A-Z, 1965-1973**

- 8 Beacons, Radios, n.d.
 Beacons, Radios, n.d.
 Batteries, n.d.
 Barometers, Microbiograph, n.d.
 Buoys, Markers, n.d.
 Bellows, n.d.
 Cables, Electrical, n.d.
 Cables, Plastic, n.d.
 Coast and Geodetic Survey: Seismometer Loan, May-July, 1963
 Chase V Shot, 1965-66
 Clocks, n.d.
 Wet Suits, 1968-69

COMMITTEES AND ORGANIZATIONS

- Alumni and Friends, UC San Diego, 1974
 Planning Committee, 1973
 American Surfing Association, etc., 1977-78
 1979
 1980
 Gary Filosa's book on Surfing, "The Genesis of the Wet Suit," n.d.
 UCSD Committee on Athletics, 1968-1969
 Intercampus Athletic Advisory Board, 1970-72
 1973-74
 1975-76
 1977
 1978-81
 National Association of Intercollegiate Athletics, 1975
 1975-1980
 DUMAND Summer Study, 1978, Proposal
 March-July, 1978
 September-October, 1978

BOX FOLDER TITLE**COMMITTEES AND ORGANIZATIONS**

- 8 Extended University Committee, 1971-June, 1972
 July-December, 1972
 February-March, 1973
 April, 1973
 May-June, 1973
 Federation Francaise D'Etude et de Sports Sous-Marins, Brevet de Plongeur Autonome,
 October 9, 1969
 Planetarium Authority, January-July, 1970
 August-December, 1970
 San Diego Planetarium Committee, December, 1978- February, 1969
 March-May, 1969
 June-August, 1969
 September-December, 1969
 Public Ceremonies Committee, 1971
- 9 January-March, 1972
 April-May, 1972
 June-October, 1972
 1974
 1975-1976
 H. Bradner, Chairman, 1977-79
 Committee on Retirement Benefits, 1980
 Fermi lab, 1978

LECTURES, SPEECHES, RESEARCH NOTES AND OTHER PAPERS

- Lecture notes by Backus, Continuum Mechanics, n.d.
 Occasional Lectures in Seismology, Iyer, Munk, Backus, Bradner, Hext, n.d.
 Effect of Various Additives to Water on West Coast Fog, n.d.
 Microseisms Paper, n.d.]
 [Seismic Studies in the Gulf of California and Tectonic Implications," Outline for Reichle
 Thesis, n.d.]
 [Short Period Gravimeter, n.d.]
 Papers, Talks in Preparation, "Microseism Measurements on the Deep Ocean Bottom,"
 n.d.

BOX FOLDER TITLE**LECTURES, SPEECHES, RESEARCH NOTES AND OTHER PAPERS**

- 9 Kerr Phenomenon, R.E. Kill, 1950
 [Disclosure of Invention, Garbage Can Lid, September 23, 1956]
 Research Notes, 1957]
 Research Notes, 1958]
 Bathyscape Dive #1, February 14, 1962
 Blanket (Thermal), 1962
 Neutrino Paper, 1963-1964
 Speeches, Seismology, 1964-1979
 Speeches, Seismology, 1964-1979
 Flooded Lungs, 1964
 "Generation and Propagation of Microseisms," Paper presented at Society of Exploration Geophysicists, November 18, 1964
 Seismic Experiment for Probing the Existence of Lava Chambers, 1965
 Power Spectra, Seismometer, R.B. Whitmarch, 1965
 Sigma Xi Talk, Seismology, Davis Campus, April 8-10, 1965
 Pressure Sensitive Device for Tsunami Measurements, 1966
 Speech, Oceanographic Congress, Moscow, USSR, June, 1966
 Paper for the Society of Exploration Geophysicists Meeting, Houston, November 9, 1966
 San Diego Oceanic Coordinating Committee, 1967
 National Marine Sciences Program, 1968
 "An Improved Vertical Sensor," Review of Scientific Instruments, 1968
 "Inertial Navigation without Gyros," American Journal of Physics, 1968
 "Our Nation and the Sea," Bulletin of the Atomic Scientist, 1969
 "Physicist Looks at Oceanography," 1970-1971
 "Temperature Dependence of Conical Features in Glass," 1970
 Underwater Diving Symposium, April 10-11, 1970

BOX FOLDER TITLE**LECTURES, SPEECHES, RESEARCH NOTES AND OTHER PAPERS**

- 9 "Microseism Propagation via Oceanic Waveguide," Submitted to Pure and Applied Geophysics, c1971.
- Neutrino and Geothermal Fluxes II, 1972
- "Some Methods for Determining Acceleration and Tilt by Use of Pendulums and Accelerometers," submitted to Bulletin of the Seismology Society of America, February 15, 1972
- "Prograde Rayleigh Waves and Microseism Sources," submitted to J. Geophys. Research, April 4, 1972
- "A Note on Zero Length Springs," American Journal of Physics, July, 1972
- Overpressures, [Paper, "A Rough Hazard Chart for Sub-Marines in Earthquake Zones," 1972-1974
- [New Method for Inertial Guidance," 1973]
- Journal of Geophysical Research, Applied Mechanics Reviews, IEEE, Reviews, 1974-1979
- [Lecture Notes] Savage, Dislocation Theory, 1975, pp. 1-50
 pp. 51-105
 Bibliography and Figures
- Brune, Seismic Interpretation, 1975
- AGU, Paper on Development of Ocean Bottom Seismometers, Fall, 1976
- [Address Books, n.d.]
- [Appointment Calendar, 1946]
- [Appointment Calendar, 1970]
- [Appointment Calendars, 1972-1973]
- [Appointment Calendars, 1974-1975]
- [Appointment Calendars, 1976-1977]
- [Appointment Calendars, 1978-1979]
- [Appointment Calendars, 1980-1981]