

Series Outline

1. *Force of Nature*: Subject Files and Research Materials, 1985-1994
2. *Force of Nature*: Interviews - Audio Cassettes and Transcriptions, 1985, 1990-1992, 1995-1996, 2006
3. *Force of Nature*: Administrative Records, 1989-2000
4. *The Demon Under the Microscope*: Subject Files and Research Materials, 1931-2005
5. *The Demon Under the Microscope*: Administrative Records, 2004-2008
6. *The Alchemy of Air*: Subject Files and Research Materials, 1898-2007
7. *The Alchemy of Air*: Manuscript, Administrative Records, 2006-2010

Detailed Description of the Collection

Box

1. *Force of Nature: Subject Files and Research Materials, 1985-1994 (40 Boxes)*

Series 1 is divided into a number of subseries including Scientific Topics, People, Peace Activism and Political Controversy, Linus Pauling - Personal and Family, and General Research. A wide range of assorted archival materials collected by Tom Hager while researching *Force of Nature* can also be found in this series.

1.001 Scientific Topics: A-B, 1928-1949 (9 Folders)

Folder

- 1.1 Alpha-Helix,
- 1.2 Aging,
- 1.3 American Chemical Society, 1948-1949
- 1.4 Amino Acids,
- 1.5 Anesthesia,
- 1.6 Antibodies - General,
- 1.7 Astrophysics, 1932
- 1.8 Atomic Theory, Before 1928
- 1.9 Boranes,
- 1.002 Scientific Topics: C, undated (6 Folders)
 - 2.1 Chemical Bond,
 - 2.2 Chemical Bond Theories - Valence Bond vs. Molecular Orbital,
 - 2.3 Chemistry and Biology,
 - 2.4 Chemistry - Nobel Prize,
 - 2.5 Colds,
 - 2.6 Crystallography,
- 1.003 Scientific Topics: D, 1926-1941 (3 Folders)
 - 3.1 Development of Organic Chemistry, 1936-1941
 - 3.2 Dielectric Constants - Van Vleck, etc., 1926
 - 3.3 DNA,
- 1.004 Scientific Topics: E-H, 1920-1949 (9 Folders)
 - 4.1 Electronegativity, 1932
 - 4.2 Electroneutrality, 1948
 - 4.3 Eugenics,
 - 4.4 Explosives and Propellants,
 - 4.5 Funding Science, 1947-1949
 - 4.6 Growth of Science, Before 1920
 - 4.7 Hemoglobin,
 - 4.8 History of Science,
 - 4.9 Hydrogen Bonding,
- 1.005 Scientific Topics: L1, 1930-1953 (3 Folders)
 - 5.1 Lilly Research Laboratories and Insulin, 1947-1953
 - 5.2 Linus Pauling Publications,
 - 5.3 Linus Pauling Scientific, 1930-1939
- 1.006 Scientific Topics: L2, 1940-1994 (2 Folders)
 - 6.1 Linus Pauling Scientific, 1940-1954
 - 6.2 Linus Pauling Scientific, 1955-1994
- 1.007 Scientific Topics: M-O, 1939 (11 Folders)
 - 7.1 Medicine,
 - 7.2 Mental Disease,
 - 7.3 Metals,
 - 7.4 Molecular Biology,

- 7.5 Molecular Clock,
- 7.6 Nature of the Chemical Bond, 1939
- 7.7 National Library of Medicine,
- 7.8 NDRC/OSRD/Mobilization,
- 7.9 Orthomolecular Psychiatry,
- 7.10 Oxygen Meter,
- 7.11 Oxypolygelatin,
- 1.008 Scientific Topics: P-Q, 1922-1946 (7 Folders)
 - 8.1 Patents,
 - 8.2 Proteins,
 - 8.3 Postwar Science Funding [National Science Foundation], 1945-1946
 - 8.4 Punch Card Computers and IBM,
 - 8.5 Quantum Mechanics, 1922-1936
 - 8.6 Quantum Mechanics: Interview of Linus Pauling by John L. Heilbron,
 - 8.7 Quasicrystals,
- 1.009 Scientific Topics: S-Z, 1951 (7 Folders)
 - 9.1 Sickle Cell Anemia,
 - 9.2 Soviet Reaction to Resonance Theory, 1951
 - 9.3 Stochastic Method,
 - 9.4 Structure of Water,
 - 9.5 Vitamin C,
 - 9.6 Vitamins [Pre-Vitamin C],
 - 9.7 World War II,
- 1.010 Peace Activism and Political Controversy: A-E, 1945-1964 (9 Folders)
 - 10.1 America-Israel, 1963
 - 10.2 Australia, 1964
 - 10.3 Buckley Lawsuit,
 - 10.4 Budenz, Louis, and HUAC,
 - 10.5 California Education Committee, 1950
 - 10.6 Communists,
 - 10.7 Condon Case [Edward U. Condon], 1948
 - 10.8 Control of Atomic Energy, 1945-1947
 - 10.9 Emergency Committee of Atomic Scientists,
- 1.011 Peace Activism and Political Controversy: FBI Files, Ava Helen Pauling, 1948-1949 (3 Folders)
 - 11.1 FBI Investigation, 1948-1949
 - 11.2 FBI Miscellaneous,
 - 11.3 Sections No. 1 and 2 [Subject: Ava Helen Pauling],
- 1.012 Peace Activism and Political Controversy: FBI Files, Linus Pauling, Sections 1-4, undated (5 Folders)
 - 12.1 Section No. 1 Part 1 [Subject: Linus Pauling],
 - 12.2 Section No. 1 Part 2 [Subject: Linus Pauling],
 - 12.3 Section No. 2 [Subject: Linus Pauling],
 - 12.4 Section No. 3 [Subject: Linus Pauling],
 - 12.5 Section No. 4 [Subject: Linus Pauling],
- 1.013 Peace Activism and Political Controversy: FBI Files, Linus Pauling, Sections 5-6, undated (2 Folders)
 - 13.1 Section No. 5 [Subject: Linus Pauling],
 - 13.2 Section No. 6 [Subject: Linus Pauling],
- 1.014 Peace Activism and Political Controversy: FBI Files, Linus Pauling, Sections 7-12, undated (6 Folders)
 - 14.1 Section No. 7 [Subject: Linus Pauling],
 - 14.2 Section No. 8 [Subject: Linus Pauling],
 - 14.3 Section No. 9 [Subject: Linus Pauling],
 - 14.4 Section No. 10 [Subject: Linus Pauling],
 - 14.5 Section No. 11 [Subject: Linus Pauling],
 - 14.6 Section No. 12 [Subject: Linus Pauling],
- 1.015 Peace Activism and Political Controversy: FBI Files, Linus Pauling, Sections 13-18, undated (6 Folders)

- 15.1 Section No. 13 [Subject: Linus Pauling],
- 15.2 Section No. 14 [Subject: Linus Pauling],
- 15.3 Section No. 15 [Subject: Linus Pauling],
- 15.4 Section No. 16 [Subject: Linus Pauling],
- 15.5 Section No. 17 [Subject: Linus Pauling],
- 15.6 Section No. 18 [Subject: Linus Pauling],
- 1.016 Peace Activism and Political Controversy: F-O, 1937-1964 (14 Folders)
 - 16.1 Fallout and Health,
 - 16.2 Hennings Subcommittee [State of California], 1955
 - 16.3 Hollywood Independent Citizens Committee of the Arts, Sciences, and Professions,
 - 16.4 Hollywood Ten, 1950
 - 16.5 Industrial Employment Review Board, 1951
 - 16.6 Japanese-American Controversies,
 - 16.7 Kennedy Dinner,
 - 16.8 Lawsuits,
 - 16.9 Meet the Press, 1958
 - 16.10 *Minority of One*, 1961-1964
 - 16.11 *No More War!*, 1958
 - 16.12 Nuclear Tests, 1945-1957
 - 16.13 Other Political, 1937-1953
 - 16.14 Oxford Meeting, 1963
- 1.017 Peace Activism and Political Controversy: Passport, 1927-1958 (2 Folders)
 - 17.1 Passport, 1927-1953
 - 17.2 Passport, 1954-1958
- 1.018 Peace Activism and Political Controversy: P-Se, 1945-1969 (9 Folders)
 - 18.1 Palmer Committee, 1945
 - 18.2 Peace Prize,
 - 18.3 Public Health Service - Denial of Grants, 1953-1957
 - 18.4 Pugwash Movement, 1957
 - 18.5 Red Dean of Canterbury,
 - 18.6 San Francisco Protests, 1960
 - 18.7 Scientists in Politics, 1969
 - 18.8 Senate Internal Security Committee,
 - 18.9 Senate Internal Security Committee: Linus Pauling Play,
- 1.019 Peace Activism and Political Controversy: St-Z, undated (6 Folders)
 - 19.1 St. Louis Globe-Democrat Lawsuit,
 - 19.2 Stanford University - Controversies,
 - 19.3 State Department Files and the Nobel Peace Prize,
 - 19.4 Support for the Politically Repressed,
 - 19.5 Union Now and Early Politics,
 - 19.6 Vietnam,
- 1.020 People: A-L, undated (30 Folders)
 - 20.1 Addis, Thomas,
 - 20.2 Astbury, William,
 - 20.3 Bacher, Robert,
 - 20.4 Beadle, George,
 - 20.5 Beckman, Arnold,
 - 20.6 Bernal, John,
 - 20.7 Branson, Herman,
 - 20.8 Bridges, Harry,
 - 20.9 Cameron, Ewan,
 - 20.10 Carlson, Chester,
 - 20.11 Catchpool, Frank,
 - 20.12 Corey, Robert,

- 20.13 Delbrück, Max,
- 20.14 DuBridge, Lee,
- 20.15 Durr, Clifford and Virginia,
- 20.16 Einstein, Albert,
- 20.17 Fajans, Kasimir,
- 20.18 Freeman, W.H.,
- 20.19 Goertzel, Mildred and White, Florence,
- 20.20 Goudsmit, Samuel,
- 20.21 Heitler, Walter and London, Fritz,
- 20.22 Hershey, Alfred,
- 20.23 Huggins, Maurice,
- 20.24 Itano, Harvey,
- 20.25 Koepfli, Joseph,
- 20.26 Landsteiner, Karl,
- 20.27 Langmuir, Irving,
- 20.28 Lewis, G.N.,
- 20.29 Lippman, Richard,
- 20.30 Lipscomb, William,
- 1.021 People: M, undated (6 Folders)
- 21.1 Marcuson, Richard,
- 21.2 Millikan, Robert,
- 21.3 Mirsky, Alfred,
- 21.4 Morgan, Thomas Hunt,
- 21.5 Muller, Herman,
- 21.6 Mulliken, Robert,
- 1.022 People: N-R, undated (6 Folders)
- 22.1 Noyes, Arthur,
- 22.2 Oppenheimer, Robert,
- 22.3 Perutz, Max,
- 22.4 Rath, Matthias,
- 22.5 Robinson, Art,
- 22.6 Russell, Lord Bertrand,
- 1.023 People: S, undated (8 Folders)
- 23.1 Schrödinger, Erwin,
- 23.2 Schweitzer, Albert,
- 23.3 Serafini, Anthony,
- 23.4 Slater, John,
- 23.5 Sobell, Morton,
- 23.6 Sommerfeld, Arnold,
- 23.7 Spitzer, Ralph,
- 23.8 Szent-Gyorgi, Albert,
- 1.024 People: T-Z, undated (11 Folders)
- 24.1 Teller, Edward,
- 24.2 Tolman, Richard,
- 24.3 Wallace, Henry,
- 24.4 Watson, Honest Jim,
- 24.5 Weaver, Warren,
- 24.6 Weinbaum, Sidney,
- 24.7 Wheland, George,
- 24.8 Wilson, E. Bright,
- 24.9 Wrinch, Dorothy,
- 24.10 Yost, Don,
- 24.11 Zechmeister, Laszlo,
- 1.025 Institutions: A-Ca, 1929-1964 (23 Folders)

- 25.1 Berkeley Visits, 1929-1935
- 25.2 California Institute of Technology,
- 25.3 Caltech Student Attitudes, 1937-1940
- 25.4 Caltech, 1953-1956
- 25.5 Caltech, 1959-1961
- 25.6 Caltech - Pauling's Departure and Later, 1961-1963
- 25.7 Caltech and Insulin,
- 25.8 Caltech and the Depression,
- 25.9 Caltech - Biographies and Faculty,
- 25.10 Caltech - Crellin Laboratory of Chemistry,
- 25.11 Caltech - Engineering and Science Letters, Early 1930s
- 25.12 Caltech - Freshman Chemistry, 1941
- 25.13 Caltech - General and History,
- 25.14 Caltech - Interviews,
- 25.15 Caltech - Linus Pauling as Chair,
- 25.16 Caltech - Pauling Teaching and Administration, 1946-1955
- 25.17 Caltech Postwar,
- 25.18 Caltech - Resigning as Division Head, 1958
- 25.19 Caltech Student,
- 25.20 Caltech Trustees Catalogue, 1957-1964
- 25.21 Caltech - Women in Science,
- 25.22 Caltech - World War II,
- 25.23 Caltech - Zuckerman Interview, 1964
- 1.026 Institutions: Ce-Z, 1925-1929 (6 Folders)
- 26.1 Center for Democratic Institutions,
- 26.2 Harvard, 1929
- 26.3 National Research Council and Guggenheim, 1925-1927
- 26.4 Oregon Agricultural College,
- 26.5 Rockefeller Foundation,
- 26.6 UC San Diego,
- 1.027 Linus Pauling - Personal and Family: A-K, 1948 (11 Folders)
- 27.1 Ava Helen Pauling: About,
- 27.2 Awards,
- 27.3 Belle Pauling,
- 27.4 Belle Pauling's Hospitalization,
- 27.5 Cliff Incident,
- 27.6 Condon, Oregon,
- 27.7 Deer Flat Ranch,
- 27.8 England, 1948
- 27.9 Europe,
- 27.10 Family,
- 27.11 Hawthorne Street and Portland,
- 1.028 Linus Pauling - Personal and Family: L1, 1959-1971 (4 Folders)
- 28.1 Langmuir Prize,
- 28.2 Linda Pauling Kamb and Barclay Kamb,
- 28.3 Linus Pauling: About, 1959-1961 1964-1971
- 28.4 Linus Pauling: Childhood,
- 1.029 Linus Pauling - Personal and Family: L2, 1937-1959 (6 Folders)
- 29.1 Linus Pauling: Critical Abilities,
- 29.2 Linus Pauling: General, 1957-1959
- 29.3 Linus Pauling: General Traits,
- 29.4 Linus Pauling Institute of Science and Medicine,
- 29.5 Linus Pauling: Interviews - Europe,

- 29.6 Linus Pauling: Laboratory Work and Teachers, 1937-1941
- 1.030 Linus Pauling - Personal and Family: L3, 1931-1971 (8 Folders)
 - 30.1 Linus Pauling: Memorials,
 - 30.2 Linus Pauling: Popular, 1964-1971
 - 30.3 Linus Pauling: Possible,
 - 30.4 Linus Pauling: Review Papers,
 - 30.5 Linus Pauling: Teaching, 1931-1937
 - 30.6 Linus Pauling: Thoughts on Advertisements,
 - 30.7 Linus Wilson Darling,
 - 30.8 *Los Angeles Times* Newspaper Clippings,
- 1.031 Linus Pauling - Personal and Family: M-N, undated (5 Folders)
 - 31.1 Miscellaneous Personal and Family,
 - 31.2 Neal Family Genealogy,
 - 31.3 Nephritis,
 - 31.4 *New York Times* Newspaper Clippings,
 - 31.5 Nova Interview,
- 1.032 Linus Pauling - Personal and Family: O-Z, undated (10 Folders)
 - 32.1 Oswego, Oregon [Lake Oswego],
 - 32.2 Pauling Family Genealogy,
 - 32.3 Pauling, Herman,
 - 32.4 Personality,
 - 32.5 Peter Pauling,
 - 32.6 Philosophy and Religion,
 - 32.7 Photos of Pauling, Family, and Colleagues,
 - 32.8 Popular Biographical,
 - 32.9 Racism,
 - 32.10 Salaries,
- 1.033 Correspondence and Interviews Used in Researching *Force of Nature*, 1985-1994 (3 Folders)
 - 33.1 Correspondence: Hager and Pauling, 1985-1994
 - 33.2 Assorted Materials re: Non-Pauling Interviews Conducted by Tom Hager,
 - 33.3 Non-Hager Interviews with Linus Pauling,
- 1.034 Assorted Hager Research Notes re: *Force of Nature*, undated (1 Folder)
 - 34.1 Assorted Research Notes re: *Force of Nature*,
- 1.035 Materials re: Archival Sources Used in Researching *Force of Nature*, 1990-1993 (6 Folders)
 - 35.1 Correspondence: American Institute of Physics, 1990-1992
 - 35.2 Materials re: Archival Sources Used in Researching *Force of Nature*, Part 1, 1991-1993
 - 35.3 Materials re: Archival Sources Used in Researching *Force of Nature*, Part 2, 1991-1993
 - 35.4 Materials re: Freedom of Information Act Requests, 1991
 - 35.5 California Institute of Technology Archives,
 - 35.6 Materials re: Potential Individual Research Contacts, 1991-1993
- 1.036 Assorted Research Materials re: *Force of Nature*, 1972 (4 Folders)
 - 36.1 Biographical Sketches of Linus Pauling,
 - 36.2 Biographical Sketches of Linus Pauling's Colleagues,
 - 36.3 German Language Documents for Translation,
 - 36.4 *The Structural Chemistry of Linus Pauling* by Robert Paradowski, 1972
- 1.037 General Research, Part 1, 1928-1994 (5 Folders)
 - 37.1 General, 1928-1955
 - 37.2 General, 1963
 - 37.3 General, 1964-1971
 - 37.4 General, 1972-1994
 - 37.5 General: Linus Pauling,
- 1.038 General Research, Part 2, 1955-1961 (2 Folders)
 - 38.1 General Correspondence , 1955-1956

- 38.2 General Correspondence, 1961
- 1.039 General Research, Part 3, 1962 (2 Folders)
- 39.1 General Correspondence, 1962
- 39.2 "Insert Back", (This folder was originally titled by Tom Hager.)
- 1.040 General Research, Part 4, undated (3 Folders)
- 40.1 General Loose Items Part 1,
- 40.2 General Loose Items Part 2,
- 40.3 General Loose Items Part 3,

Box**2. Force of Nature: Interviews - Audio Cassettes and Transcriptions, 1985, 1990-1992, 1995-1996, 2006 (7 Boxes)**

Series 2 contains the audio recordings and transcripts of interviews conducted by Tom Hager in his development of *Force of Nature*. Also contained in this series are various audio-visual materials related to Pauling's life and to Hager's promotion of *Force of Nature*.

- 2.001 Interviews: A-H, 1990-1991 (6 Folders)
 - 1.1 Interview: Anson, Fred. February 21, 1991. [Transcribed], February 21, 1991
 - 1.2 Interview: Bauer, Al. November 30, 1990. [Transcribed] Interview: Larson, Edward. November 30, 1990. [Transcribed] Interview: Morgan, Richard. November 30, 1990. [Transcribed], November 30, 1990 November 30, 1990 November 30, 1990
 - 1.3 Interview: Davidson, Norman. February 22, 1991. [Transcribed] Interview: DuBridge, Lee. February 22, 1991. [Transcribed], February 22, 1991 February 22, 1991
 - 1.4 Interview: DuBridge, Lee. February 22, 1991. [Transcribed] Interview: Townsend, Arletta. February 23, 1991. [Transcribed], February 22, 1991 February 23, 1991
 - 1.5 Interview: Edsall, John. November 2, 1991. [Transcribed] Interview: Karplus, Martin. November 1, 1991. [Transcribed], November 2, 1991 November 1, 1991
 - 1.6 Interview: Harbottle, Garmin. October 1991. [Transcribed], October 1991
- 2.002 Interviews: I-L, 1990-1992 (6 Folders)
 - 2.1 Interview: Kamb, Linda Pauling. April 14, 1992. [Transcribed], April 14, 1992
 - 2.2 Interview: Kamb, Linda Pauling. July 23, 1990. [Transcribed], July 23, 1990
 - 2.3 Interview: Kamb, Linda Pauling. February 25, 1991. [Transcribed] Interview: Schomaker, Verner. February 25, 1991. [Transcribed], February 25, 1991 February 25, 1991
 - 2.4 Interview: Kamen, Martin. April 14, 1992. [Transcribed] Interview: Kamb, Linda Pauling. April 14, 1992. [Transcribed], April 14, 1992 April 14, 1992
 - 2.5 Interview: Koepfli, Joseph. April 14, 1992. [Transcribed], April 14, 1992
 - 2.6 Interview: Lipscomb, William. November 3, 1991. [Transcribed] Interview: Rich, Alexander. November 3, 1991. [Transcribed], November 3, 1991 November 3, 1991
- 2.003 Interviews: M-P, 1990-1992 (9 Folders)
 - 3.1 Interview: Marsh, Richard and Verner Schomaker. Undated. [Transcribed], Undated
 - 3.2 Interview: Meselson, Matthew. November 1, 1991. [Transcribed] Interview: Karplus, Martin. November 1, 1991. [Transcribed], November 1, 1991 November 1, 1991
 - 3.3 Interview: Morgan, Richard. December 2, 1990. [Transcribed], December 2, 1990
 - 3.4 Interview: Novick, Aaron. Undated. [Transcript Only], Undated
 - 3.5 Interview: Noyes, Richard. Undated. [Transcribed], Undated
 - 3.6 Interview: Pauling, Crellin. October 16, 1992. [Transcribed], October 16, 1992
 - 3.7 Interview: Pauling, Pauline and Lucile. March 26, 1990., March 26, 1990
 - 3.8 Interview: Pauling, Pauline and Lucile. April 26, 1990. [Transcribed] Interview: Pauling, Linus. May 29, 1990. [Transcribed], April 26, 1990 May 29, 1990
 - 3.9 Interview: Piel, Gerard and Eleanor. October 15, 1990 [Transcribed]., October 15, 1990
- 2.004 Interviews: Q-Z, 1990-1991 (8 Folders)

- 4.1 Interview: Rath, Matthias. October 14, 1990. Interview: Pauling, Linus, Jr. October 14, 1990., October 14, 1990
October 14, 1990
- 4.2 Interview: Rich, Alexander. November 3, 1991. [Transcribed] Interview: Edsall, John. November 2, 1991.
[Transcribed], November 3, 1991 November 2, 1991
- 4.3 Interview: Roberts, John. February 21, 1991., February 21, 1991
- 4.4 Interview: Roberts, John. February 21, 1991. Interview: Davidson, Norman. February 22, 1991., February 21,
1991 February 22, 1991
- 4.5 Interview: Robinson, Art. September 11, 1991.. Interview: Zuckerkandl, Emile. Undated [Transcribed],
September 11, 1991. Undated
- 4.6 Interview: Schomaker, Verner. February 25, 1991. [Transcribed], February 25, 1991
- 4.7 Siporn Interviews: Hager, Tom re: Linus Pauling. Undated., Undated
- 4.8 Various Interview Transcripts. Undated., Undated
- 2.005 Interviews with Linus Pauling, 1985-1991 (8 Folders)
 - 5.1 Interview: Pauling, Linus. December 8, 1985., December 8, 1985
 - 5.2 Interview: Pauling, Linus. July 26, 1990., July 26, 1990
 - 5.3 Interview: Pauling, Linus. July 27, 1990., July 27, 1990
 - 5.4 Interview: Pauling, Linus. October 9, 1990., October 9, 1990
 - 5.5 Interview: Pauling, Linus. December 27, 1990., December 27, 1990
 - 5.6 Interview: Pauling, Linus. January 16, 1991., January 16, 1991
 - 5.7 Interview: Pauling, Linus. March 27, 1991., March 27, 1991
 - 5.8 Interview: Pauling, Linus. March 27, 1991. [Transcribed], March 27, 1991
- 2.006 Interviews with Linus Pauling, 1991-1992 (10 Folders)
 - 6.1 Interview: Pauling, Linus. August 20, 1991., August 20, 1991
 - 6.2 Interview: Pauling, Linus. August 21, 1991. Interview: von Hippel, Peter. Undated., August 21, 1991 Undated
 - 6.3 Interview: Pauling, Linus. August 23, 1991., August 23, 1991
 - 6.4 Interview: Pauling, Linus. February 11, 1992. [Transcribed], February 11, 1992
 - 6.5 Interview: Pauling, Linus. February 14, 1992. [Transcribed], February 14, 1992
 - 6.6 Interview: Pauling, Linus. October 14, 1992. [Transcribed], October 14, 1992
 - 6.7 Interview: Pauling, Linus. October 16, 1992. [Transcribed], October 16, 1992
 - 6.8 Interview: Pauling, Linus. Undated. [Transcribed] Notes to Self: Linus Pauling. Undated. [Transcribed] Reading
of Letters from Linus Pauling to the Pauling Children. Undated. [Transcribed], Undated Undated Undated
 - 6.9 Pauling Interviews Originals. Undated., Undated
 - 6.10 Pauling Interviews Transcripts. Undated., Undated
- 2.007 Assorted Audio and Visual Materials, 1960-2006 (8 Folders)
 - 7.1 Audio cassette: "Linus Pauling goes to Washington," performance of a play written by Sherman Stein, 1960s
 - 7.2 Audio cassette and Transcriptions: "Tolman Award Ceremony" and "90th Symposium Address," lectures
delivered by Linus Pauling, February 27-28, 1991
 - 7.3 Audio cassette: lecture by Max Perutz, Pauling's 90th birthday symposium, February 28, 1991
 - 7.4 Audio cassette: "Dr. Linus Pauling - National Public Radio," profile of Pauling produced for broadcast on "All
Things Considered", February 28, 1991
 - 7.5 VHS Videocassette: "Women for Peace," produced by Harvey Richards/Estuary Press Video, 1991
 - 7.6 Audio cassette: "The Life of Linus Pauling," lecture by Tom Hager recorded by Oregon Public Broadcasting,
October 25, 1995
 - 7.7 Audio cassette: "Life of Linus Pauling," Talk of the Nation - Science Friday, National Public Radio. [Interview
of Tom Hager and Alexander Rich, by Ira Flatow], January 19, 1996
 - 7.8 DVD: "Linus Pauling: A Force of Nature," lecture by Tom Hager, National Institute of Standards and Technology
Colloquium Series, April 28, 2006

Box**3. *Force of Nature: Administrative Records, 1989-2000 (3 Boxes)***

Series 3 is comprised of correspondence, contractual agreements and editing notes compiled by Tom Hager over the course of his researching and writing *Force of Nature*. The administrative records include correspondence between Hager and prospective publishers, annotated draft chapters, promotional materials, and reviews of the completed book.

- 3.001 Administrative Records: Correspondence, 1989-2000 (4 Folders)
 - 1.1 Correspondence: Sobel Weber Associates [Literary Agent], 1989-1998
 - 1.2 Correspondence: Bob Bender [Editor], 1991-1995
 - 1.3 Correspondence: Simon & Schuster, 1995-1997
 - 1.4 General Correspondence re: *Force of Nature*, 1991-2000
- 3.002 Administrative Records: Manuscript Edits, 1991-2000 (2 Folders)
 - 2.1 Annotated Draft Chapters of *Force of Nature*, 1991-2000
 - 2.2 Materials re: Edits to *Force of Nature*, 1995-1997
- 3.003 Administrative Records: Acknowledgements, Permissions, Promotion and Reviews of *Force of Nature*, 1995-2000 (4 Folders)
 - 3.1 Materials re: Acknowledgments for *Force of Nature*,
 - 3.2 Materials re: Photo Permission for Images Reproduced in *Force of Nature*,
 - 3.3 Promotional Materials re: *Force of Nature*, 1995-1997
 - 3.4 Reviews of *Force of Nature*, 1995-2000

Box**4. *The Demon Under the Microscope: Subject Files and Research Materials, 1931-2005 (8 Boxes)***

Series 4 is divided into several subseries including Scientific Topics, People, Institutions, and Gerhard Domagk - Personal and Family. A wide range of assorted research materials collected by Tom Hager while researching *The Demon Under the Microscope* can also be found in this series.

- 4.001 Scientific Topics: E-P, 1933-1938 (17 Folders)
 - 1.1 Erysipelas,
 - 1.2 Food, Drug & Cosmetic Act of 1938,
 - 1.3 Germany - General Information,
 - 1.4 Gorgon's Blood (Greek mythology),
 - 1.5 Hospitals - History,
 - 1.6 Nuremberg Trials - Medical Testing in Concentration Camps,
 - 1.7 Paris Exhibition - Bibliography,
 - 1.8 Penicillin,
 - 1.9 Pharmaceutical Industry - History,
 - 1.10 Prontosil - Bibliography, 1938
 - 1.11 Prontosil - Clinical Research. German Language, 1933
 - 1.12 Prontosil - Clinical Research. German Language, 1934-1935
 - 1.13 Prontosil - General Information,
 - 1.14 Prontosil - Marketing,
 - 1.15 Prontosil - Patents,
 - 1.16 Prontosil - Protocols and Conference Minutes from the Winthrop Chemical Company, 1936-1937
 - 1.17 Puerperal Fever,
- 4.002 Scientific Topics: S-W, 1936-2005 (18 Folders)
 - 2.1 Science and Medicine - Background and General Information,
 - 2.2 Streptococcal Disease,
 - 2.3 Sulfanilamide - Elixir Sulfanilamide and the Massengill Company,
 - 2.4 Sulfanilamide - General Information,
 - 2.5 Sulfanilamide - News Articles, 1936

- 2.6 Sulfanilamide - News Articles, 1937
- 2.7 Sulfanilamide - News Articles, 1939
- 2.8 Sulfanilamide - News Articles, 1940
- 2.9 Sulfanilamide - News Articles, 1945
- 2.10 Sulfanilamide - News Articles, 1994-2005
- 2.11 Sulfanilamide - Patents,
- 2.12 Sulfanilamide - Review Articles,
- 2.13 Sulfanilamide - The Second Generation of Sulfa Drugs,
- 2.14 Sulfapyridine (M&B 693),
- 2.15 Uliron,
- 2.16 World War I,
- 2.17 World War II,
- 2.18 Wound Infection,
- 4.003 People: B-K, 1931-1943 (18 Folders)
- 3.1 Bovet, Daniel - General,
- 3.2 Bovet, Daniel - Manuscripts. French Language,
- 3.3 Bovet, Daniel - Manuscripts. Translated,
- 3.4 Churchill, Winston,
- 3.5 Colebrook, Leonard,
- 3.6 Colebrook, Leonard - Biography,
- 3.7 Colebrook, Leonard - Laboratory Book and Notes,
- 3.8 Colebrook, Leonard: "Treatment of Human Puerperal Infections, and of Experimental Infections in Mice, With Prontosil." *The Lancet* , 1936
- 3.9 Dale, Henry,
- 3.10 Duisberg, Carl,
- 3.11 Ehrlich, Paul,
- 3.12 Fourneau, Ernest,
- 3.13 Gelmo, Paul,
- 3.14 Heidelberger, Charles,
- 3.15 Hörlein, Heinrich,
- 3.16 Klarer, Josef,
- 3.17 Klarer, Josef - Research Reports. German Language and Translated, 1931-1943
- 3.18 Koch, Robert,
- 4.004 People: L-W, 1932-1953 (13 Folders)
- 4.1 Lancefield, Rebecca Craighill,
- 4.2 Lipes, Wheeler,
- 4.3 Long, Perrin H.,
- 4.4 Mietzsch, Fritz: "Chemie und wirtschaftliche Bedeutung der Sulfonamide." *Arbeitsgemeinschaft für Forschung Des Landes Nordrhein-Westfalen*. German Language, 1953
- 4.5 Mietzsch, Fritz - Research Reports. German Language, 1932-1935
- 4.6 Pasteur, Louis,
- 4.7 Perkin, William Henry,
- 4.8 Roehl, Wilhelm,
- 4.9 Roosevelt, Franklin D.,
- 4.10 Tréfouël, Jacques - Scientific Papers. French Language,
- 4.11 van Leeuwenhoek, Antony,
- 4.12 von Behring, Emil,
- 4.13 Wright, Almroth,
- 4.005 Institutions, undated (9 Folders)
- 5.1 Bayer Pharmaceutical Company - Archives,
- 5.2 Bayer Pharmaceutical Company - General Information and Timelines,
- 5.3 Bayer Pharmaceutical Company - Sales Figures,
- 5.4 Bayer Pharmaceutical Company - World War II Crimes,
- 5.5 I.G. Farben Chemical Company,

- 5.6 Medical Research Council - Documents and Correspondence with Leonard Colebrook,
- 5.7 Medical Research Council - World War II Wound Infection Reports,
- 5.8 Pasteur Institute - Bibliographies and Background Information,
- 5.9 Pasteur Institute - Documents. French Language,
- 4.006 Gerhard Domagk - Personal and Family, 1931-1953 (14 Folders) [Recipient of the 1939 Nobel Prize for Medicine, Gerhard Domagk (1895-1964) is credited with discovering the first sulfa drugs.]
 - 6.1 Gerhard Domagk - Biographical,
 - 6.2 Gerhard Domagk: "Die experimentellen Grundlagen der Chemotherapie der bakteriellen Infektionen." *Arbeitsgemeinschaft für Forschung Des Landes Nordrhein-Westfalen*. German Language, 1953
 - 6.3 Gerhard Domagk - Journal Articles. German Language,
 - 6.4 Gerhard Domagk - Laboratory Journals, 1931
 - 6.5 Gerhard Domagk - Laboratory Journals, 1932
 - 6.6 Gerhard Domagk - Laboratory Journals, 1933
 - 6.7 Gerhard Domagk - Laboratory Journals, 1934
 - 6.8 Gerhard Domagk - Laboratory Journals, 1935
 - 6.9 Gerhard Domagk - Memoir,
 - 6.10 Gerhard Domagk - Nobel Prize for Physiology and Medicine,
 - 6.11 Gerhard Domagk - Research Materials. German Language, 1932
 - 6.12 Gerhard Domagk - Research Materials. German Language, 1935
 - 6.13 Gerhard Domagk: "Ein Beitrag zur Chemotherapie der bakteriellen Infektionen." [Scientific Paper on Prontosil and Related Materials] *Deutsche Medizinische Wochenschrift*. German Language, 1935
 - 6.14 Hildegard Domagk,
- 4.007 Assorted Research Materials re: *The Demon Under the Microscope*, 1936-2002 (9 Folders)
 - 7.1 "Chemistry and Biomedicine in an Industrial Setting: The Invention of the Sulfa Drugs" by John E. Lesch. *Chemical Sciences in the Modern World*, 1993
 - 7.2 *Discoveries in Pharmacology, Volume 3: Pharmacological Methods, Receptors, and Chemotherapy* by Robert Behnisch. Chapter 5: "From dyes to drugs.", 1986
 - 7.3 "Discovery and Development of Anti-infectives at Bayer: A Personal View—Part 1. Antiparasites, Sulfonamides, and Antitubercular Drugs" by Axel A.H. Dalhoff,
 - 7.4 *Flüchten, Mitmachen, Vergessen: Chemiker und Biochemiker in der NS-Zeit* (Translated as *Flüchten, Mitmachen, Vergessen: Chemists and Biochemists during the National Socialist Era*) by Ute Deichmann, 2002
 - 7.5 *Gerhard Domagk: der erste Sieger über die Infektionskrankheiten* (Translated as *Gerhard Domagk: The First Man to Triumph Over Infectious Diseases*) by Ekkehard Grundmann. German Language and Translations, 2001
 - 7.6 Miscellaneous Documents re: *The Demon Under the Microscope*,
 - 7.7 "Our Historical Roots: Dr. Richard Drysdale Dakin, DSC, and His Solution" by Matthew W. King. *Journal of Ostomy and Continence Nursing*,
 - 7.8 "A Review of Recent Progress in the Chemotherapy of Septicæmia" by E.C. Dodds. *The Practitioner*, 1936
 - 7.9 Various Notecards,
- 4.008 Photographs, undated (1 Folder)
 - 8.1 Assorted Photographs,

Box

5. *The Demon Under the Microscope*: Administrative Records, 2004-2008 (3 Boxes)

Series 5 is comprised of correspondence and editorial notes compiled by Hager over the course of his researching and writing of *The Demon Under the Microscope*. The administrative records held in this series include bibliographical information, correspondence between Hager and various institutions, speech notes, manuscripts, promotional materials, and chapter outlines annotated onto index cards.

- 5.001 Administrative Records: Bibliographical, Correspondence, Speeches, Manuscripts, and Promotional Materials, 2004-2008 (6 Folders)
 - 1.1 Bibliographic Information for *The Demon Under the Microscope*,

- 1.2 Correspondence: Pasteur Institute, 2004
- 1.3 Correspondence: Wellcome Trust, 2004
- 1.4 Typescript: "The Gorgon's Blood: A Greek Myth, a German Doctor, and the Rise of MRSA." Speech given by Tom Hager at Oregon Health Sciences University, 2008
- 1.5 Typescript: "Gorgon's Blood: The heroic, mistaken search for the world's greatest medicine," by Tom Hager. Early draft of *The Demon Under the Microscope* edited by J. Pastore,
- 1.6 Promotional Materials re: *The Demon Under the Microscope*, 2006-2007
- 5.002 Administrative Records: Book Outline, undated (1 Index Card File Box)
 - 2.1 Index Card Outline of *The Demon Under the Microscope*. Prologue and Chapters 1-17 (Chapters 18-23 and Epilogue Not Included),
- 5.003 Administrative Records: Correspondence, Publishing and Post-Publication Materials., 2003-2007 (16 Folders)
 - 3.1 Contract and Correspondence: Harmony Publishing., 2004-2005
 - 3.2 Materials re: Advance Copies of *The Demon Under the Microscope*., 2006
 - 3.3 Design Samples for *The Demon Under the Microscope*.,
 - 3.4 Correspondence: G. Poizat Newcomb., 2004
 - 3.5 Materials re: edits to *The Demon Under the Microscope*., 2006
 - 3.6 Notes re: chapter structure of *The Demon Under the Microscope*.,
 - 3.7 Typescript: Extended Chapter Outline for *The Demon Under the Microscope*., 2004
 - 3.8 Correspondence: American Heritage Magazine., 2006
 - 3.9 Correspondence: Julia Pastore., 2005
 - 3.10 Correspondence re: Initial Proposal for *The Demon Under the Microscope*., 2003
 - 3.11 Correspondence and Publishing Materials *The Demon Under the Microscope*., 2006-2007
 - 3.12 Typescript: Cover Text, Paperback Edition., 2007
 - 3.13 Correspondence: Reader Responses re: *The Demon Under the Microscope*., 2006-2007
 - 3.14 Promotional Materials re: *The Demon Under the Microscope*., 2006-2007
 - 3.15 Reviews for *The Demon Under the Microscope*., 2006-2007
 - 3.16 Marketing Materials for *The Demon Under the Microscope*., 2006-2007

Box

6. *The Alchemy of Air*: Subject Files and Research Materials, 1898-2007 (8 Boxes)

Series 6 is divided into a number of subject-specific subseries including Scientific Topics, People, and Institutions, which document the materials researched by Tom Hager during his development of *The Alchemy of Air*.

- 6.001 Carl Bosch - Personal and Biographical., 1931-1940 (7 Folders) [Recipient of the 1931 Nobel Prize for Chemistry, Carl Bosch (1874-1940) helped develop an industrial-level process for nitrogen fixation.]
 - 1.1 Carl Bosch - Assorted Biographical,
 - 1.2 Carl Bosch - Horoscope,
 - 1.3 Carl Bosch - Miscellaneous Materials,
 - 1.4 Carl Bosch - Nobel Announcement and Lecture, 1931
 - 1.5 Typescript: *Carl Bosch*, lecture by Alfred von Nagel, 1940 [Text in German and English.]
 - 1.6 Letter from Carl Bosch to Reich Minister of the Interior Wilhelm Frick, 1938
 - 1.7 Materials re: The Carl Bosch Museum,
- 6.002 Fritz Haber - Personal and Biographical, 1914-1940 (6 Folders) [Recipient of the 1918 Nobel Prize for Chemistry, Fritz Haber (1868-1934) played a major role in the development of chemical warfare in World War I.]
 - 2.1 Fritz Haber - Biographical, 1931-1940
 - 2.2 Fritz Haber - Documents re: Nitrogen Work,
 - 2.3 Fritz Haber - Horoscope,
 - 2.4 Fritz Haber - Miscellaneous,
 - 2.5 Fritz Haber - Nobel Lecture, 1920
 - 2.6 Fritz Haber: "Modern Chemical Industry." [Scientific Paper], 1914
- 6.003 Scientific Topics: A-N, 1964-2007 (13 Folders)
 - 3.1 Ammonia Synthesis,

- 3.2 Chemical Warfare,
- 3.3 Chile - General,
- 3.4 Chile - Nitrates,
- 3.5 Coolie Trade,
- 3.6 Famine and Food Production,
- 3.7 Fritz Haber and Carl Bosch - General Information, [Text in English and German.]
- 3.8 Mythology,
- 3.9 Nitrates - Shipping,
- 3.10 Nitrates - Trade,
- 3.11 Nitre (Gunpowder), 1964 2006
- 3.12 Nitrogen - Alternative Fixation Processes,
- 3.13 Nitrogen - Chemistry, 2005-2007
- 6.004 Scientific Topics: N-W, 1973-2007 (14 Folders)
- 4.1 Nitrogen - Ecosystems,
- 4.2 Nitrogen - Fertilizer,
- 4.3 Nitrogen - General, 2006
- 4.4 Nitrogen - Plants in the US,
- 4.5 Nitrogen - Pollution,
- 4.6 Nitrogen - Solutions, 2006-2007
- 4.7 Population Growth,
- 4.8 Red Tide (Hypoxia), 2006
- 4.9 Refrigeration,
- 4.10 Synthetic Fuel,
- 4.11 Wakulla Springs - Pollution, 2006
- 4.12 War of the Pacific, 1973 2005-2007
- 4.13 World War I,
- 4.14 World War II,
- 6.005 People: B-V., 1947 (15 Folders)
- 5.1 Birkeland, Kristian,
- 5.2 Borlaug, Norman - Nobel Lecture,
- 5.3 Boyle, Robert,
- 5.4 Boyton, Paul,
- 5.5 Crookes, William,
- 5.6 Davy, Humphrey,
- 5.7 Eyde, Sam,
- 5.8 Haenke, Thaddeus,
- 5.9 Hooke, Robert,
- 5.10 Le Chatelier, Henri Louis,
- 5.11 Meiggs, William,
- 5.12 Ostwald, Wilhelm,
- 5.13 Planck, Max - "My Audience With Hitler", 1947
- 5.14 Siemens, Charles William,
- 5.15 von Brunk, Heinrich,
- 6.006 Institutions., 1919-2007 (4 Folders)
- 6.1 BASF, 1919 2004-2006
- 6.2 BUNA, 2000-2007
- 6.3 I.G. Farben, 1929-1999
- 6.4 Leuna, 2005
- 6.007 Assorted Research Materials re: *The Alchemy of Air*, 1898-1931 (5 Folders)
- 7.1 "Address of the President Before The British Association For the Advancement of Science, Bristol, 1898."
Science, 1898
- 7.2 "Allied Chemical's Secret" and "Europe's Biggest." *Time*, 1929-1931
- 7.3 *The Biogeochemical Submodel: Cycles*, by Michael G.J. den Elzen, Arthur H.W. Beusen, Jan Rotmans and Heko W. Köster,

- 7.4 *The Journal of Industrial and Engineering Chemistry*, American Chemical Society, 1909
- 7.5 Assorted Materials re: *The Alchemy of Air*,
- 6.008 Notes and Book Outline, undated (4 Index Card File Boxes)
- 8.1 Annotated Card File: *The Alchemy of Air*,
- 8.2 Annotated Card File: *The Alchemy of Air*,
- 8.3 Index Card Outline: *The Alchemy of Air*, Preface - Chapter 10,
- 8.4 Index Card Outline: *The Alchemy of Air*, Chapter 11 - Epilogue,

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7. *The Alchemy of Air*: Manuscript, Administrative Records, 2006-2010 (3 Boxes)

Series 7 is comprised of correspondence, contractual agreements and editorial notes compiled by Tom Hager while researching and writing *The Alchemy of Air*. The administrative records include correspondence between Hager and prospective publishers, annotated draft chapters, promotional materials and reviews of the completed book.

- 7.001 Administrative Records: Manuscripts, 2008 (1 Folder)
 - 1.1 Edited Manuscript of *The Alchemy of Air*, 2008
- 7.002 Administrative Records: Contract and Publishing Materials, 2006-2010 (7 Folders)
 - 2.1 Publishing Contract and Licensing Agreement: *The Alchemy of Air*, 2006
 - 2.2 Correspondence: Sobel and Weaver, Crown Publishing, 2006-2010
 - 2.3 Crown Publishing Catalog, 2008
 - 2.4 Sample introduction for *The Alchemy of Air*, 2007
 - 2.5 Marketing Materials re: *The Alchemy of Air*, 2009
 - 2.6 Reviews of *The Alchemy of Air*, 2008-2009
 - 2.7 Assorted Correspondence re: *The Alchemy of Air*, 2006-2007
- 7.003 Visual Materials re: *The Alchemy of Air*, ca. 2006 (4 Folders)
 - 3.1 Assorted Photographs and Etchings, ca. 2006
 - 3.2 Assorted Figures, ca. 2006
 - 3.3 Postcards, ca. 2006
 - 3.4 Glossy Headshot of Tom Hager, ca. 2006