
Guide to the Papers of Clair C. Patterson, 1937-1995

Processed by Nurit Lifshitz.

Archives

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Descriptive Summary

Title: Clair C. Patterson papers,

Date (inclusive): 1937-1995

Collection number: Consult repository

Creator: Patterson, Clair C., 1922-1995

Extent: 63 linear feet

Repository: California Institute of Technology. Archives.

Pasadena, California 91125

Abstract: This collection documents Clair Patterson (1922-1995), a geochemist at the University of Chicago and California Institute of Technology. Patterson was best known for determining the age of the earth and the solar system, and for his pioneering work on global lead contamination.

Language: English.

Access

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

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Preferred Citation

[Identification of item, box and file number], Papers of Clair C. Patterson. Archives, California Institute of Technology.

Acquisition Information

The papers were donated to the Caltech Archives by Lorna Patterson in several installments, during 1996. Two small accessions were given to the Archives in September 1997 and April 1998.

Processing History

This collection was processed by Nurit Lifshitz in December 1998.

Biography

Geochemist Clair Patterson is best known for his determination of the age of the Earth and the solar system, and for his pioneering work on global lead contamination. His research affected the work of many other scientists involved in environmental chemistry and geochemistry. His findings brought about a substantial improvement in the quality of human life by initiating government policies to control the amount of lead in the environment and reduce human exposure to lead. Patterson was born in Mitchellville, Iowa, near Des Moines, on June 2, 1922. He attended a small local high school and in 1943 graduated from Grinnell College in Iowa with an AB degree in Chemistry. He received his MS degree in 1944 from the University of Iowa and his PhD in chemistry from the University of Chicago in 1951.

While at the University of Chicago, Patterson worked under the supervision of Professor Harrison Brown, developing theories on the origin of meteorites, pioneering some of the early developments of mass-spectrometric methods for uranium-lead dating of common rock minerals, and using lead isotope tracers to study geological events.

In 1952, he followed Prof. Harrison Brown to the California Institute of Technology and continued his work on lead isotope chemistry. His research culminated in 1953 when he was first to establish the age of the earth to be 4.6 billion years - a result which is accepted to this day.

Patterson's continued examination of the Earth's geological evolution led to his discovery of the high concentration of lead in the atmosphere. He focused his attention on the problem of lead in the natural environment and its consequences for life on Earth. He sought to document the extent to which industrialization and modern society have increased the amount of lead in the environment. He conducted studies on ice cores from Greenland and Antarctica, tested for lead in the easterly trade winds in American Samoa, and directed research projects in the Sierra Nevada, California. His studies of bones and teeth of prehistoric humans established that modern humans contain hundreds of times more lead than their ancient ancestors did.

His research was cited by environmentalists and scientists, who successfully lobbied for the Clean Air Act of 1970 and the phasing out of lead in gasoline. His work also contributed to the elimination of lead from drinking-water pipes and lead soldered food cans.

In the early 1980's Patterson began to focus his interests on evaluating the role of man in society, and the implications of the relationship between scientists and society.

Patterson's many accomplishments won him the 1973 J. Lawrence Smith Medal from the National Academy of Science; the 1980 Goldschmidt Medal of the American Geochemical Society; the 1983 Professional Achievement Award from the University of Chicago; and the 1995 Tyler Prize for Environmental Achievement. He was elected to the National Academy of Sciences in 1987, and received honorary doctorates from Grinnell College in 1973 and the University of Paris in 1975. An Asteroid (2511) and a peak in the Queen Maude Mountains of Antarctica were dedicated to him.

Patterson died suddenly at his home in Sea Ranch, California, early in the morning of December 5, 1995.

Scope and Content of Collection

The working papers, manuscripts, reprints, correspondence, and biographical materials of Clair Cameron Patterson (1922-1995) form the collection known as the Papers of Clair C. Patterson in the Archives of the California Institute of Technology.

The collection is composed of eleven sections, organized in 147 archival boxes. The correspondence section (Section I) was processed by Jennifer K. Stine and contains a majority of Patterson's correspondence. An attempt was made to gather the general as well as the scientific correspondence into one main section, Section I. However, some correspondence has been left in other sections in order to preserve its original context. Thus, publication correspondence can be found both in Section I and Section III. Letters of recommendation have been placed in Section V, as has correspondence with his Caltech colleagues.

Section II contains Patterson's unpublished manuscripts in chronological order. Folders in this section contain a variety of material such as manuscript drafts, notes, figures, tables, and related correspondence. Patterson's published manuscripts have been gathered in Section III by title in chronological order. The formal and final reprints have been grouped in Section IV.

Patterson's research on the age of the Earth, as well as his several research projects on lead, may be found in Section VI. However, some related materials, such as lab notebooks and mass spectrometer charts, are located in the technical files

section, Section VII.

Patterson's talks and lectures are arranged under Section IX in chronological order. Folders in this section contain a wide variety of talk-related documents, from talk outlines and notes to transparencies and correspondence.

Organization of Collection

Organized into the following series: I. Correspondence; II. Manuscripts; III. Publications; IV. Reprints; V. California Institute of Technology, subseries A-F as follows: A. Course and lecture notes; B. Student grades, registration information, etc.; C. Committees; D. Division of Engineering and Applied Sciences, Environmental Engineering Sciences; E. Division of Geological and Planetary Sciences; F. Letters of Recommendation; VI. Research projects and reports, subseries A-B as follows: A. Research projects; B. Reports; VII. Technical files, subseries A-D as follows: A. Mass spectrometric charts; B. Lab notebooks; C. Slides; D. Photographs; VIII. Work of others, subseries A-C as follows: A. Individuals, general; B. Subjects, general; C. Reviews of papers and proposals of others

Indexing Terms

The following terms have been used to index the description of this collection.

Corporations

California Institute of Technology

Subjects

Earth--Age

Environmental geochemistry

Geochemistry

Geochemistry--Study and teaching

Lead--Environmental aspects

Genres and Forms of Materials

Laboratory notebooks

Manuscripts

Reprints

Occupations

Geochemists

Section I: Correspondence

A

Box 1, Folder 1	Abelson, Philip H. 1954-1969; 1978
Box 1, Folder 2	Adams, Eva (U.S. Mint) 1967-1969
Box 1, Folder 3	Adams, John A. S. 1954-1964
Box 1, Folder 4	Aitchison, Leslie 1970-1971
Box 1, Folder 5	Albee, Arden 1972-1980
Box 1, Folder 6	Aldrich, Thomas L. 1952-1959; See also: Section V, Part A
Box 1, Folder 7	Allen, Clarence 1965-1974
Box 1, Folder 8	Allégre, Claude J. 1972-1988; See also: Section V, Part F; See also: Section VIII, Part A
Box 1, Folder 9	Alumni Achievement Award, Univ. of Chicago 1981
Box 1, Folder 10	Alvarez, Robert 1974
Box 1, Folder 11	American Academy of Medical Preventics 1977-1978
Box 1, Folder 12	American Assoc. for the Achievement of Science 1964; 1973-1974; 1978
Box 1, Folder 13	American Chemical Society 1959-1993
Box 1, Folder 14	American Farmland Trust 1984
Box 1, Folder 15	American Fisheries Society, see: Section II, Review of lead 1978
	American Geophysical Union 1981-1985
	American Petroleum Institute, see: Section VI, part A
Box 1, Folder 16	American Men & Women of Science 1977-1994
Box 1, Folder 17	Analytical Chemistry 1977-1983
Box 1, Folder 18	Anders, Edward 1957-1969

Box 1, Folder 19	Anderson, Ernest C. 1959-1960
Box 1, Folder 20	Anderson, Neil R. 1979-1985
Box 1, Folder 21	Andreae, Meinrat O. 1977-1979; 1986; 1994; See also: Section V, Part F
Box 1, Folder 22	Andrews, Richard N.L. 1982-1983
Box 1, Folder 23	Areces, Arsenio 1972-1973
Box 1, Folder 24	Argonne National Laboratory 1953-1958; 1968-1973
Box 1, Folder 25	Arnold, James R. 1962; 1986
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Box 1, Folder 29	Ashley, Willy, Jr. 1967
Box 1, Folder 30	Aswathanarayana, U. 1957-1967
Box 1, Folder 31	<i>Atlantic Monthly</i> 1981
Box 1, Folder 32	Atomic Energy Commission 1962-1966; 1985
Box 1, Folder 33	Atsuya, Ikuo 1981-1982
Box 1, Folder 34	A misc.
	B-Bou
Box 2, Folder 1	Bacon, Michael P. 1975
Box 2, Folder 2	Bader, Richard G. 1962-1965
Box 2, Folder 3	Bagayatkhar, A. G. 1971-1974
Box 2, Folder 4	Baier, Rodger W. 1970-1988; 1992
Box 2, Folder 5	Barnes, Virgil E. 1956
Box 2, Folder 6	Batifol, Francoise 1986
Box 2, Folder 7	Beckman, Arnold O. 1967-1973
Box 2, Folder 8	Bell, Henry 1972
	Bellow, Saul [3 folders]; See also: Settle, Dorothy prize nominations; Davidson, Cliff
Box 2, Folders 9-10	1980-1995
Box 2, Folder 11	Transcription of tapes
Box 2, Folder 12	Bengelsdorf, Irving 1969-1995
Box 2, Folder 13	Bentley, Charles R. 1968
Box 2, Folder 14	Benton, John F. 1967-1982; 1988
Box 2, Folder 15	Billings, Gale K. 1969-1970
Box 2, Folder 16	Birch, Francis 1954-1963
Box 2, Folder 17	Black, Lance 1968
Box 2, Folder 18	Blomquist, Edward T. 1966-1970
Box 2, Folder 19	Blummer, Walter 1975
Box 2, Folder 20	Boucot, Katherine R. (<i>Archives of Environmental Health</i>) 1963-1969; See also: Section III, box 34
	Boutron, Claude
Box 2, Folder 21	5/23/70 to 4/2/82
Box 2, Folder 22	5/10/82 to 10/5/87
Box 2, Folder 23	12/14/87 to 11/7/95
	Bow-Bro
Box 3, Folder 1	Bowers, George N. 1969-1985
Box 3, Folder 2	Bowers, George N., misc. material received from
Box 3, Folder 3	Boyer, Kenneth 1980-1982
Box 3, Folder 4	Boyle, Ed 1986-1990; See also: Section V, Part F
Box 3, Folder 5	"Brain Containers" (<i>The California TECH</i>) 1970
Box 3, Folder 6	Branica, Marko 1972-1992
Box 3, Folder 7	Bray, Warwick 1972-1973
Box 3, Folder 8	Bridbord, Kenneth (EPA) 1973-1974; See also: Shapiro, Irving
Box 3, Folder 9	British Antarctica Survey 1980-1987; See also: Wolff, Eric; Section VI, GISP research project
Box 3, Folder 10	British Drug Houses, Ltd. 1964
Box 3, Folder 11	Brodine, Virginia (<i>Environment</i>) 1968-1970; See also: <i>Scientist and Citizen</i>
Box 3, Folder 12	Broecker, Wallace 1962-1987

Box 3, Folder 13	Brooks, John L. 1973-1975
Box 3, Folder 14	Brooks, Norman 1974
	Broughton, T. Robert S., see: Lead in Parthenon
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Box 3, Folder 16	Brown, Evelyn 1964-1974
Box 3, Folder 17	Brown, Harrison 1952-1986; See also: Smith, Kirk R.; Stair, Ralph; Section VI, Part A
	Brown, H. Douglas 1971
Box 3, Folder 18	Brown, John S. 1959-1966
Box 3, Folder 19	Brown, Rudd 1966
Box 3, Folder 20	Brown, Theresa 1986-1987
Box 3, Folder 21	Bru-B misc.
	Bruland, Kenneth 1974-1985; See also: Section V, Part F
Box 4, Folder 1	Brush, Stephen 1981-1994
Box 4, Folder 2	Bryce-Smith, Derek 1967-1982
Box 4, Folder 3	Brzozowski, Jan 1967
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Box 4, Folder 10	Burrows, Fred W. (International Apple Association) 1966
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Box 5, Folder 2	California State Highway Commission 1964
Box 5, Folder 3	Calvert, Seymour 1967
Box 5, Folder 4	Cameron, A. G. W. 1962
Box 5, Folder 5	Cameron, Richard L. 1980-1985
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	Carettoni, Gianfilippo, see: Lead in Parthenon
Box 5, Folder 9	Carter, Jean M. 1979
Box 5, Folder 10	Catanzaro, Edward 1974
Box 5, Folder 11	Center for Cosmochemistry & Geochemistry (CIT) 1987-1988
Box 5, Folder 12	Chester, R. 1970-1989
Box 5, Folder 13	Chisholm, Van 1980-1986; See also: Section VI, Part A
	Chow, Cecilia, see: Kiang, Cecilia
Box 5, Folder 14	Chow, Tsaihwa James 6/19/58 to 9/18/65; See also: Section V, Part E; Section VI, Part A
	Chow, Tsaihwa James
Box 5, Folder 15	3/17/66 to 9/19/71
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Box 5, Folder 18	Church, Stanley E. 1969-1970
Box 5, Folder 19	Church, Thomas 1970-1994 ; See also: Section V, Part F; Section XI, Davidson's [Cliff] book
	Civilian Saucer Intelligence of NY, see: Mebanche, Alexander P. and Anjin
Box 5, Folder 20	Clark, Mary E. 1969
Box 5, Folder 21	Clayton, Robert N 1957; 1967
	Cli-C misc.
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Box 6, Folder 11	Craig, Paul 1970
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Box 6, Folder 13	Cranston, Sen. Alan. 1980; See also: Section VI, Lead in human environment report 1978-1979
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Box 6, Folder 15	Crowley, Barbara 1970-1987; See also: Gifillan, S. Colum
Box 6, Folder 16	Cullison, W. L. 1957-1962
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Box 7, Folder 1	Dahlgren, George 1964-1965
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Box 7, Folder 6	Davidson, Norman 1962
Box 7, Folder 7	Davis, Andy 1978
Box 7, Folder 8	DeCanio, Margaret 1993
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Box 7, Folder 12	Dehlinger, Peter 1975
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Box 9, Folder 3	Everson, Joel 1978-1981; See also: Section V, Part F
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	Faculty, Division of Geological and Planetary Sciences, see: Section V, Part D and E
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Box 9, Folder 8	Fergusson, J. E. 1983-1984
Box 9, Folder 9	Feynman, Richard 1981; See also: Sperry, Roger
Box 9, Folder 10	Finch, Robert H. 1969-1970
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Box 10, Folder 2	Gast, Paul W. 1958-1964
Box 10, Folder 3	Geochemical Society 1978-1980
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Box 10, Folder 7	1/30/74 to 7/18/77
Box 10, Folder 8	8/18/77 to 10/14/89; See also: Crowley, Barbara
Box 10, Folder 9	Misc. 1989
Box 10, Folder 10	Gill, Gary 1981-1987; See also: Section V, Part F
Box 10, Folder 11	Gille, Frank H. 1977-1978

Box 10, Folder 12	Glimcher, Melvin 1989
Box 10, Folder 13	Goldberg, Edward, 1950-1993; See also: Section V, Part F; Section VI, Part A
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Box 12, Folder 5	Hewett, D. Foster 1960-1963
Box 12, Folder 6	Hewlett Packard 1973-1974
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	The isotopic composition of lead in ultramafic rocks 1956
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	Isotopic composition of lead in leadville limestone, hydrothermal dolomite and associated ore 1957
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	Lead isotopes in manganese nodules 1959
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	Primary isochron of zero age for meteorites and the Earth 1962
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Box 104, Folder 1	Lab procedures, B.S. Duffield
Box 104, Folder 2	Lab notebook I, B.S. Duffield 1961
Box 104, Folder 3	Lab notebook II, B.S. Duffield, Experimental (Bruderheim) 1961-1963
Box 104, Folder 4	Lab notebook data, B.S. Duffield 1962
Box 104, Folder 5	Lab notebook computations, B.S. Duffield 1962
Box 104, Folder 6	Lab notebook, B.S. Duffield 1963
Box 105, Folder 1	K, Ca spike data 1965 Greenland, 1965 Antarctica, M. Murozumi
Box 105, Folder 2	Snow sample log Greenland 1965
Box 105, Folder 3	Greenland snow 1965, Pb data III, Cecilia Y. Kiang
Box 105, Folder 4	Greenland snow 1965, Pb exp. III
Box 105, Folder 5	Antarctica snow 1966, Pb data V, Cecilia Y. Kiang
Box 105, Folder 6	Regent preparation, Cecilia Y. Kiang, 1965-1968
Box 106, Folder 1	New Byrd Station, snow sample field book December 1965
Box 106, Folder 2	Camp Century sample log book 1965 field season
Box 106, Folder 3	Byrd Station 1966, Transverse log Samuel M. Savin
Box 106, Folder 4	(Ti) M.S. Data, 1967, Lucy [Sheih]
Box 106, Folder 5	Book I: Na, Cl neutron activation analysis January 1968-April 1970
Box 106, Folder 6	Book I: Data, D. Settle 1969
Box 107, Folder 1	Book II: Data, D. Settle, April 1970
Box 107, Folder 2	Book II: Lab., D. Settle, May-December 1970
Box 107, Folder 3	Greek and Roman leads: D. Settle, January 1971
Box 107, Folder 4	Greek and Roman leads: Data II, 1971
Box 107, Folder 5	Lab book IV: Fish data only (SD Albacore 7/21/71)
Box 108, Folder 1	Lab book VI: Fish data only, April 1974
Box 108, Folder 2	Lab book IV: Fish data only, November 1974
Box 108, Folder 3	Patterson's notes on fish references and blank calculations [1974]
Box 108, Folder 4	MS log book: MS-12-2, June 1962-Oct. 1976
Box 108, Folder 5	MS log book: MS-12-2, October 1976
Box 108, Folder 6	Mike Burnett lab book , January 1978
Box 108, Folder 7	Misc. blank notes and data 1974-1981

Box 108, Folder 8

Lead sample, Iowa**Part C: Slides**

Box 109, Folder 1

American Samoa 1976-1977

Box 109, Folder 2

Antarctica 1965-1966

Box 109, Folder 3

Clean lab work with Claude Boutron

Box 109, Folder 4

French frigate shoals? 1977?

Box 109, Folder 5

Greece 1970

Box 109, Folder 6

Japan, September 1970

Box 109, Folder 7

Lectures slides (2 folders)

Box 109, Folder 8

Mt. Etna and volcano [1980]

Box 109, Folder 9

Mike Burnett's lecture slides 1978Box 109, Folder
10**New Zealand, tree coring work**Box 109, Folder
11**New Zealand? Volcano sampling? [1983]**

Box 109, Folder

Paris, Louvre March 1975

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Box 109, Folder

Rome, December 1970

13

Box 109, Folder

Thompson Canyon 1970-1972

14

Box 109, Folder

Thompson Canyon 1973-1975

15

Box 109, Folder

Water sampler 1977

16

Box 109, Folder

Slides: Miscellaneous

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Part D: Photographs**Slides: Miscellaneous glass slides**

Box 111, Folder 1

Antarctica expedition November 1965 - February 1966

Box 111, Folder 2

Bernhard's (Schaule) water sampler [1979]

Box 111, Folder 3

BIMS rain collector experiment [1978-1979]

Box 111, Folder 4

Catalina Island

Box 111, Folder 5

Clean lab work with Claude Boutron

Box 111, Folder 6

Japan 1973

Box 111, Folder 7

Mt. Etna, Sicily June 1980

Box 111, Folder 8

Mass-spectrometer

Box 111, Folder 9

Mike Burnett's lecture negatives 1978

Box 111, Folder

New Zealand tree coring work

10

Box 111, Folder

Peruvian archaeology, Donnan Christopher

11

Box 111, Folder

R.V. Tangarua (SEAREX research) 1979

12

Box 111, Folder

Thompson Canyon 1973

13

Box 111, Folder

Water sampler 1977

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Section VIII: Work Of Others**Part A: Individuals, general**

Box 112, Folder 1	Allègre, Claude J. 1995 Reprint
Box 112, Folder 2	Brewers, J. M. 1981 Reprint
Box 112, Folder 3	Bryce-Smith, D. 1986-1987 Reprints
Box 112, Folder 4	Buat, Menard, P. 1978-1979; 1985 Preprints
Box 112, Folder 5	Chesselet, R. 1968 Thesis [of Jacques Morelli]
Box 112, Folder 6	Clayton, Barbara E. 1964 Reprint (copy)
Box 112, Folder 7	Cloud, Preston E. Reprints 1971-1973; 1975
Box 112, Folder 8	Cramer, Kim 1961 Reprint
Box 112, Folder 9	De Laeter, John R. 1988 Reprint
Box 112, Folder 10	Earl, John L. [undated] Preprint (copy)
Box 112, Folder 11	Fermi, E. 1946 Preprints
Box 112, Folder 12	Fitzgerald, William F. 1986 Reprint
Box 112, Folder 13	Goldberg, Edward D. 1951; 1974; 1977 Reprints
Box 112, Folder 14	Heidam, Niels Z. 1981; 1984 Reprints (copies)
Box 112, Folder 15	Keller, Von Th. 1967 Reprint
Box 112, Folder 16	Kurasawa, H. 1968 Reprint
Box 112, Folder 17	Ludwick, J. D. 1977 Reprint (copy)
Box 112, Folder 18	Maring, H.B. 1985-1987 Reprints, preprints
Box 112, Folder 19	Martell, Edward A. 1992-1993 Reprints
Box 112, Folder 20	Martin, John H. 1988 Reprint
Box 113, Folder 1	McCorkell, R. H. 1969 Preprint
Box 113, Folder 2	Miyake, Yasuo 1969-1974 Reprints
Box 113, Folder 3	Morgan, James J. 1991 Reprint
	Okamoto, Kensaku 1977-1980

Box 113, Folder 4	Reprints
	Ozima, Minoru 1972-1973
Box 113, Folder 5	Reprints
	Ragone, Stephen E.
Box 113, Folder 6	Preprints (with Patterson's annotations)
	Ridley, W. P., 1977
Box 113, Folder 7	Reprint
	Robbins, D. W. [undated]
Box 113, Folder 8	Reprints (copies)
	Schaule, Bernhard 1979
Box 113, Folder 9	Thesis
	Schell, W.R. 1973-1975
Box 113, Folder 10	Reprints
	Smith, Donald R. 1990
Box 113, Folder 11	Reprint
	Tatsumoto, Mitsunobu 1971, 1973, 1980
Box 113, Folder 12	Reprints
	Wasserburg, Gerald Joseph 1987
Box 113, Folder 13	Reprint
	Yost, W. Jacque 1957
Box 113, Folder 14	Reprint

Part B: Subjects, general

	Age of meteorites and the Earth
	Reprints
Box 114, Folder 1	1946; 1950; 1959; 1963
Box 114, Folder 2	1965-1966
Box 114, Folder 3	1967-1968
Box 114, Folder 4	1969-1970; 1976; 1982; 1987; 1989
	Carbon dating
Box 114, Folder 5	Reprints 1967-1970
	Lead and air pollution
Box 115, Folder 1	Booklets 1959; 1963
Box 115, Folder 2	Preprints, booklet 1965
Box 115, Folder 3	Booklets, preprints 1966-1967
Box 115, Folder 4	Preprint, reprint, discussion papers 1969
Box 116, Folder 1	Reprint (copy), booklet 1970
Box 116, Folder 2	Preprints, reprints 1971-1974
Box 116, Folder 3	Booklet, preprint 1977
Box 116, Folder 4	Preprints, booklet 1978
Box 116, Folder 5	Reprints, preprint 1980-1988
	Lead in the environment
Box 117, Folder 1	Reprint, booklet 1967
Box 117, Folder 2	Reprints 1968-1969
Box 117, Folder 3	Reprints, booklet 1970
Box 117, Folder 4	Booklets 1972-1973
Box 117, Folder 5	Preprints 1974-1975
Box 117, Folder 6	Booklets, preprint (copy) 1976
Box 117, Folder 7	Booklet 1977
Box 118, Folders 1-5	Reports 1978 (5 folders)
Box 118, Folder 6	Booklet, reprints 1979-1984

Box 119, Folder 1	Lead levels in animals 1965-1986 Reprints, discussion papers
Box 119, Folder 2	Lead levels in food and drinking water Reprints 1969; 1975-1976
Box 119, Folder 3	Reprints 1977
Box 119, Folder 4	Reprints 1978-1980; 1987
Box 119, Folder 5	Lead levels in humans 1960-1985 Reprints
Box 119, Folder 6	Lead levels in plants 1969-1983 Preprints, discussion papers, reprints
Box 120, Folder 1	Lead poisoning Reprints, preprints 1961-1969
Box 120, Folder 2	Reprints 1970-1976
Box 120, Folder 3	Reprints 1977
Box 120, Folders 4-6	Reprints 1978 (3 folders)
Box 121, Folder 1	Metallurgy Reprints 1959-1969
Box 121, Folder 2	Reprints 1970-1985
Box 121, Folder 3	Polar research studies Reprints 1961-1970
Box 121, Folder 4	Reprints 1971-1982

Part C: Reviews of papers and proposals of others

Box 122, Folder 1	1963-1969
Box 122, Folder 2	1970
Box 122, Folder 3	1971
Box 122, Folder 4	1972
Box 122, Folder 5	1973
Box 122, Folder 6	1974
Box 122, Folder 7	1975
Box 122, Folder 8	1976
Box 122, Folder 9	1977
Box 123, Folder 1	1978
Box 123, Folder 2	1979
Box 123, Folder 3	1980
Box 123, Folder 4	1981
Box 123, Folder 5	1982
Box 123, Folder 6	1983
Box 123, Folder 7	1984
Box 123, Folder 8	1985
Box 124, Folder 1	1986
Box 124, Folder 2	1987
Box 124, Folder 3	1988
Box 124, Folder 4	1989
Box 124, Folder 5	1990
Box 124, Folder 6	1991
Box 124, Folder 7	1992
Box 124, Folder 8	1993
Box 124, Folder 9	1994

Section IX: Professional Organizations And Government Agencies

Part A: Dated talks

Part A: Dated talks

Box 125, Folder 1	[Isotopic composition of lead and uranium] Annual meeting of the American Geophysical Union, Washington, D.C., May 1953
Box 125, Folder 2	"Abundances of uranium and the isotopes of lead in the Earth's crust and meteorites," Annual Meeting of the Geological Society of America, Toronto, November 9-11, 1953
Box 125, Folder 3	"Isotopic composition of lead in olivine bombs," 35th Annual Meeting of the Mineralogical Society of America, Los Angeles, November 1-3, 1954
Box 125, Folder 4	"Age of meteorites and the Earth," 2nd Conference on Nuclear Processes in Geologic Settings, Pennsylvania State University, September 8-10, 1955
Box 125, Folder 5	"The age of meteorites and the Earth," Gordon Research Conference on Nuclear Chemistry, Meriden, N.H., June 27, 1956
Box 125, Folder 6	"The determination of geological ages by radioactive methods," 33rd Annual Meeting of the SEG Pacific Sections, Los Angeles, November 8, 1956
Box 125, Folder 7	"Age of meteorites," Meeting of the American Association for the Advancement of Science", New York, December 26-30, 1956
Box 125, Folder 8	[Untitled talk] Conference on Chemistry and Physics of Isotopes, Kimball Union Academy, Meriden, N.H., July 10, 1958
Box 125, Folder 9	"Isotopic composition of lead in ore and associated igneous minerals in Butte, Montana," 40th Annual Meeting of the American Geophysical Union, Washington, D.C., May 5, 1959
Box 125, Folder 10	"Science," 22nd Annual Vocational Conference of the Kiwanis Club of Beverly Hills and Beverly Hills High School, Beverly Hills, April 27, 1960
Box 125, Folder 11	"The significance of lead isotopes in detrital feldspar with respect to early chemical differentiation within the Earth's mantle," University of Chicago, February 20, 1963
Box 125, Folder 12	"The determination of the age of the Earth," Grinnell College, Iowa, February 22, 1963
Box 125, Folder 13	[Untitled talks] Texaco Research Laboratory, Houston, Texas, March 1963
Box 125, Folder 14	"The significance of lead isotopes in detrital feldspar with respect to early chemical differentiation within the Earth," International Union of Geodesy and Geophysics Symposium, Berkeley, California, August 28, 1963
Box 125, Folder 15	[The significance of isotopic evolution of lead in the Earth] Lecture series at MIT, Cambridge, Massachusetts, February - March 1964
Box 125, Folder 16	"Lead in the human environment," U.S. Atomic Energy Commission Headquarters, September 20, 1965
Box 125, Folder 17	"Changes in concentrations of common lead in North Polar snows with time," 60th Annual meeting of the Air Pollution Control Association, Cleveland, June 11-16, 1967
Box 125, Folder 18	"Lead," Symposium on: "Men's chemical invasion of the ocean," La Jolla, California, February 24-25, 1969
Box 125, Folder 19	"Lead contamination of the atmosphere and the Earth's surface," Symposium on Atmospheric Pollution, Philadelphia, April 25, 1969; See also: Section III, "Lead contaminations " 1970
Box 125, Folder 20	"Air pollution- alcohol from wheat," 42nd Annual Meeting of the Oregon Wheat Growers League, Portland, December 1, 1969
Box 125, Folders 21-22	"Industrial lead in the oceans," International Symposium on Hydrogeochemistry and Biogeochemistry, Tokyo, Japan, September 7-12, 1970 [2 folders]
Box 126, Folder 1	"Air pollution," Environmental Pollution Symposium, Santa Barbara, California, October 28, 1970
Box 126, Folder 2	[Inorganic chemicals] Seminar on Methods of detection, measurement and monitoring of pollutants in the marine environment, Rome, Italy, December 4-8, 1970
Box 126, Folder 3	"Lead: its history and current role in polluting man's environment," Athens, Greece, December 16, 1970
Box 126, Folder 4	"Discrimination factors among metals during their transfer between related phases of an ecological system," Trace Metals Analysis Symposium, University of Illinois, Urbana, January 7-8, 1971

Part A: Dated talks

Box 126, Folder 5	"Lead in the environment," Gordon Research Conference on Chemical Oceanography, Santa Barbara, California, January 18-22, 1971
Box 126, Folder 6	"Moche metallurgy and the impurity cycle in Southern American metal artifacts," 11th Annual meeting of the Andean Studies, University of California, Berkeley, January 30, 1971
Box 126, Folder 7	"Lead and your environment," El Camino College, Torrance, California, April 28, 1971
Box 126, Folder 8	"The impurity cycle in South and Meso American metal artifacts and its relation to transoceanic contacts," Annual meeting of the Society for American Archaeology, Norman, Oklahoma, May 6-8, 1971
Box 126, Folder 9	"Determination of natural levels of toxic metals in a terrestrial ecosystem," Nobel Symposium 20, Sweden, August 16-20, 1971
Box 126, Folder 10	[Particulate matter - metals] Gordon Research Conference on Environmental Sciences, New Hampton, New Hampshire, August 29-September 3, 1971
Box 126, Folder 11	"Lead in the environment," The Geological Society of America Meeting, Washington, D.C., November 1, 1971
Box 126, Folder 12	"Contamination problems and analytical errors in lead analyses of snow and sea water," American Chemical Society, Fisher Award Symposium, Boston, April 11, 1972
Box 126, Folder 13	"The development of arsenic-copper alloys in Peru during middle horizon times," Society for American Archaeology Annual meeting, Miami, May 4-6, 1972
Box 126, Folder 14	"Trace elements in glacial ice," Quaternary Research Center Seminar, Seattle, May 23, 1972
Box 126, Folder 15	"The accidental loss of silver in ancient times and its influence on the fall of the Roman Empire," Carnation Company, Van Nuys, California, July 18, 1972
Box 126, Folder 16	"Determination of biological discrimination factors for metals within natural ecosystems," Symposium on Environmental Biogeochemistry, Utah State University, March 22-24, 1973
Box 126, Folder 17	"Lead pollution by gasoline exhausts in a remote canyon in the Sierra Nevada," the American Geophysical Union meeting, Washington, D.C., April 16-20, 1973
Box 126, Folder 18	"The accidental loss of silver in ancient times and its influence on the fall of the Roman Empire;" "Lead pollution by gasoline exhausts in a remote canyon in the Sierra Nevada," the Iowa Academy of Sciences meeting at Grinnell College, April 27-28, 1973
Box 126, Folder 19	"The accidental loss of silver in ancient times and its influence on the fall of the Roman Empire," University of Chicago, May 2, 1973
Box 126, Folder 20	"The validity of lead measurements in sea water," California Ocean Pollution Research Conference, Lake Arrowhead, November 11-15, 1973
Box 126, Folder 21	"Separation of lead from calcium at successive trophic levels within an ecosystem," University of California, Berkeley, November 29, 1973
Box 126, Folder 22	"Lead aerosol pollution overrides natural mechanisms that purify calcium of lead within a food chain in the High Sierras," Physics Research Conference, December 6, 1973
Box 126, Folder 23	[Untitled talk] 14th Annual Meeting of the Institute of Andean Studies, University of California, Berkeley, January 4-5, 1974
Box 126, Folder 24	"Ecological implications of environmental lead," Conference on Trace Pollutant Flows in Urban Basins, Caltech, March 11-12, 1974
Box 126, Folder 25	"Lead aerosol pollution of a remote ecosystem in the California High Sierra;" "Lead aerosol pollution of the oceans: recent findings," 27th Annual Symposium on Air Pollution Control, Louisiana State University, Baton Rouge, Louisiana, April 7-11, 1974
Box 126, Folder 26	"Public health hazards of lead pollution," NATO Science Committee Conference on the Eco-Toxicity of Heavy Metals and Organic Halogen Compounds, Ottawa, May 6-10, 1974
Box 126, Folder 27	"Public health hazards of lead pollution," [Symposium on Pollution Science], Tokyo, Japan, September 1974
Box 127, Folder 1	[Presentation] at EPA Symposium, Research Triangle Park, North Carolina, September 16, 1974

Box 127, Folder 2	[Biogeochemical Environmental Laboratory work talk] Seminar series in Environmental Engineering Science at Caltech, October 2, 1974
Box 127, Folder 3	"New determinations of the natural levels of lead in people and implications regarding lead pollution," University of California, Los Angeles, October 3, 1974
Box 127, Folder 4	"Effects of contamination on errors of lead determination in sea water and fish," 7th Materials Research Symposium, Gaithersburg, Maryland, October 7-11, 1974
Box 127, Folder 5	"Lead pollution in a High Sierra ecosystem," PAC Conference on Chemistry and Spectroscopy, San Francisco, California, October 17, 1974
Box 127, Folder 6	[Talk on problems of contamination] at Coastal Water Research Project, El Segundo, California, November 5, 1974
Box 127, Folder 7	"Natural mechanisms which exclude lead from a food chain," Dept. of Geology, University of California, Los Angeles, November 18, 1974
Box 127, Folder 8	"New determinations of the natural levels of lead in people and implications regarding lead pollution," USC Geology Department Seminar, Los Angeles, December 10, 1974
Box 127, Folder 9	"Lead pollution in the High Sierra," University of California, Los Angeles, January 9, 1975
Box 127, Folder 10	Conference on Geochemical and Geological Research on the Genesis and Distribution of Ore Deposits, Caltech, January 29-30, 1975
	"Effects of 7000 years of lead technology on human culture and health," University of Paris, Paris, France, March 5-7, 1975 [5 folders]
Box 127, Folder 11	Lecture I: The origin of lead technology disclosed by archaeological studies of ancient metallurgy
Box 127, Folder 12	Lecture II: How lead mining and smelting activities influenced the rise and fall of Rome
Box 127, Folder 13	Lecture III: Geochemical experiments showing the worldwide extent of industrial lead pollution
Box 127, Folder 14	Lecture IV: Health hazards of lead pollution
Box 127, Folder 15	Notes and correspondence
Box 128, Folder 1	"Lead levels of people today and 10,000 years ago and the worldwide extent of lead pollution," American Academy of Medical Preventics, West Coast Division Annual Spring Seminar and Workshop, Long Beach, California, March 17, 1975
Box 128, Folder 2	"Lead levels of people today and 10,000 years ago and the world wide extent of lead pollution," American Academy of Medical Preventics, East Coast Division Annual Spring Seminar and Workshop, Hollywood, Florida, April 21, 1975
Box 128, Folder 3	Seminar at the Department of Environmental and Resources Engineering, University of California, Irvine, May 29, 1975
Box 128, Folder 4	[Untitled talk] The Adventurers' Club, Los Angeles, May 29, 1975
Box 128, Folder 5	"Interlaboratory analyses of lead in standardized samples of seawater and problems associated with the distribution of standardized water samples containing metals at the parts per trillion level," International Symposium on the Geochemistry of Natural Waters, Burlington, Canada, August 18-20,
Box 128, Folder 6	"Problems of determining lead concentrations in materials taken from the marine environment," International Symposium of Environmental Monitoring, Las Vegas, September 14-19, 1975
Box 128, Folder 7	"Preparation of some marine standards for Pb," Workshop on Standard Reference Materials for Marine Science, Catalina Island, California, October 8-9, 1975
Box 128, Folder 8	"Problems associated with the evaluation of lead pollution," Symposium on Recent Methods and Instrumentation, Bethesda, Maryland, October 28-29, 1975
Box 128, Folder 9	"Cycling of natural lead through natural food chains and perturbations caused by industrial lead pollution," International Conference on Heavy Metals in the Environment, Toronto, Canada, October 30, 1975
Box 128, Folder 10	"Impact of aerosol lead concentrations," California Cooperative Snow Survey Conference, Yosemite Park, California, January 13, 1976
Box 128, Folder 11	"Impact of present levels of aerosol Pb concentrations on both natural ecosystems and humans," University of California, Irvine, February 9, 1976

Part A: Dated talks

Box 128, Folder 12	[Untitled talk] The International Academy of Preventive Medicine, Denver, March 18-21, 1976
Box 128, Folder 13	[Lead in sea water] West Coast Water Chemistry Workshop Conference, Caltech, May 21-22, 1976
Box 128, Folder 14	"Comparative distributions of alkaline earths and lead among tissues of marine plants and animals," 7th International Mass Spectrometry Conference, Florence, Italy, August 30-September 3, 1976 [Patterson did not attend]
Box 128, Folder 15	"Impact of present levels of aerosol Pb concentrations on both natural ecosystems and humans," Pomona College, Claremont, December 9, 1976
Box 128, Folder 16	"Impact of present levels of aerosol Pb concentrations on both natural ecosystems and humans," Harvey Mudd College, Claremont, January 18, 1977
Box 128, Folder 17	"Impact of present levels of aerosol Pb concentrations on both natural ecosystems and humans," University of California, Santa Barbara, February 16, 1977
Box 128, Folder 18	"Impact of present levels of aerosol Pb concentrations on both natural ecosystems and humans," University of California, San Diego, February 17, 1977
Box 128, Folder 19	"Measurement of dry deposition fluxes of toxic metals on various surfaces," World Meteorological Organization Meeting, Gothenburg, Sweden, April 18-22, 1977
Box 128, Folder 20	"General distribution of natural and industrial lead in marine ecosystems," International Experts Discussion on Lead, Rovinj, Yugoslavia, October 18-22, 1977
Box 129, Folder 1	"Lead isotopes in the study of human technology," The J. Paul Getty Museum, Malibu, October 29, 1977
Box 129, Folder 2	"Background skeletal lead content in proto-smelting humans: lead analysis of a tooth and femur from a Guanape burial, Viru Valley, Peru," 18th Annual Meeting of the Institute of Andean Studies, Berkeley, California, January 6-7, 1978
Box 129, Folder 3	"Ultra-low levels Pb and Ba analyses of environmental samples by dilution under ultra-clean conditions," 26th Annual Conference on Mass Spectrometry and Allied Topics (ASMS), St. Louis, May 31, 1978
Box 129, Folder 4	"Ultra-low levels Pb and Ba analyses of environmental samples by dilution under ultra-clean conditions," Albuquerque, June 1, 1978
Box 129, Folder 5	"Determination of lead in the purest natural substances known with respect to lead: seawater and fish muscle," 8th Northeast American Chemical Society meeting, Boston, Massachusetts, June 28, 1978
Box 129, Folder 6	"Anthropogenic perturbations of the natural biochemistry of lead," 4th International Conference on Geochronology, Cosmochronology and Isotope Geology, Aspen, August 21, 1978
Box 129, Folder 7	"Lead: its effects on human cultures and health," University of Chicago Alumni Association, The University of Chicago Club of Los Angeles, February 17, 1979
Box 129, Folder 8	"Comparison of the fluxes of lead into the atmosphere by volcanoes and organic emission from trees with other natural sources and with anthropogenic sources," American Chemical Society meeting, Honolulu, Hawaii, April 3, 1979
Box 129, Folder 9	"The toxicological implications of biogeochemical studies of atmospheric lead," International Conference on Environmental Toxicity, Rochester, New York, May 21-23, 1979
Box 129, Folder 10	"Directions of ultra trace analyses of seawater and organisms in the next decade," Victoria, B.C., Canada, May 31, 1979
Box 129, Folder 11	"Lead pollution in Los Angeles recorded in off-shore sediments," 27th Annual Conference in Mass Spectrometry and Allied Topics (ASMS), Seattle, June 3-8, 1979
Box 129, Folder 12	"Wet and dry deposition of trace metals and holoogens in the marine environment," Symposium by the Commission on Atmospheric Chemistry and Global Pollution, Boulder, Colorado, August 12-18, 1979
Box 129, Folder 13	"Lead pollution in the human environment: origin, extent and significance," Caltech Environmental Engineering Science Seminar, October 31, 1979
Box 129, Folder 14	[Caltech campus talk on the NRC Report] December 12, 1979
Box 129, Folder 15	"Perturbation of natural oceanic lead concentration profiles by eolian inputs of anthropogenic lead," International Union of Geology and Geophysics meeting, Canberra, Australia, December 2-15, 1979

Part A: Dated talks

Box 129, Folder 16	"Lead pollution in the human environment: origin, extent and significance," California Association of Chemistry Teachers, Los Angeles Pierce College, April 19, 1980
Box 129, Folder 17	"Lead in the marine environment," University of California Santa Cruz, May 7, 1980
Box 129, Folder 18	"Consequences of present day decline of integrity and significance of scientific research," 7th Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies, Philadelphia, September 29, 1980
Box 129, Folder 19	"Magnitudes and origins of, and mechanisms for lead fluxes to the ocean from the atmosphere," Gordon Research Conference, Plymouth, New Hampshire, August 3, 1981
Box 129, Folder 20	"Determination of background levels of lead in foods," the Association of Official Analytical Chemists meeting, Washington, D.C., October 19, 1981
Box 130, Folder 1	"The case for the world-wide lead pollution and its implications," California State University, Northridge, November 11, 1981
Box 130, Folder 2	"Lead concentrations and stable isotopic compositions in surfaces and waters of the Central Pacific," American Geophysical Union meeting, San Francisco, California, December 7-11, 1981
Box 130, Folder 3	"The true name of science," University of North Carolina, Chapel Hill, March 22, 1982
Box 130, Folder 4	"Lead in the human environment," the Campaign for Lead Free Air meeting, London, May 10, 1982
Box 130, Folder 5	"Influence of eolian lead fluxes on vertical concentration profiles of lead in oceans," Scripps Institution of Oceanography, La Jolla, California, October 14, 1982
Box 130, Folder 6	"Eolian Pb fluxes to the oceans," American Geophysical Union meeting, San Francisco, December 1982
Box 130, Folder 7	"Effects of lead atmospheric fluxes on oceans and land," New Zealand, August 19, 1983
Box 130, Folder 8	"Natural levels of lead in humans," UCLA Geology Department Speakers Forum, March 26, 1984
Box 130, Folder 9	[Untitled talk] at the Freshwater Institute, Winnipeg, Canada, [May 1984?]
Box 130, Folder 10	"Lead in ancient human bones," California State University, Long Beach, October 16, 1985
Box 130, Folder 11	"Input of seawater Pb to marine air and rain by sea spray," American Geophysical Union meeting, New Orleans, January 13-17, 1986
Box 130, Folder 12	"Lead in man and his environment;" "A serious problem: the accurate measurement of lead in trace metals," Australia, February 17-18, 1986
Box 130, Folder 13	"Diagenetic effects on trace metal occurrences in buried bones," the Geological Society of America meeting, California State University, March 25, 1986
Box 130, Folder 14	"Phasing-out lead: retrospective view of the science behind policy," University of California, Irvine, June 5, 1986
Box 130, Folder 15	"Determination of lead at ultra-low levels by isotope dilution mass spectrometry," University of Washington, Seattle, October 1986
Box 130, Folder 16	"Industrial Pb pollution of the Earth's biosphere and its implications for future goals of science," UCLA Department of Earth and Space Sciences Seminar, March 5, 1987
Box 130, Folder 17	"Are our water supplies in trouble?" Neighborhood Church, Pasadena, July 26, 1987
Box 130, Folder 18	"Difference between lead levels in ancient humans and in contemporary humans," Caltech Geology Club Seminar, May 18, 1988
Box 130, Folder 19	[Lead in Indian bones] May 27 1988
Box 130, Folder 20	"Determination of lead levels in ancient humans and comparison with those of contemporary Americans," Danforth Lectures in Chemistry, Grinnell College, Iowa, September 14, 1988
Box 130, Folder 21	"Effects of 7000 years of lead technology on human cultures and health," Danforth Lectures in Chemistry, Grinnell College, Iowa, September 15, 1988

Part A: Dated talks

Box 130, Folder 22	[Lead levels in humans] lecture for Prof. Dan Kevles's "Ethics in science" course, Caltech, [1988]
	Medical School lectures, 1988-1989 (USC School of Medicine October 26, 1988; February 24, 1989; Pomona Valley Hospital Medical Center, March 7, 1989)
Box 131, Folder 1	Drafts
Box 131, Folder 2	Figures
Box 131, Folder 3	Correspondence 1988-1990
Box 131, Folder 4	"Reduction of lead in ultimate consumers through biopurification mechanisms," 4th International Conference on Bioinorganic Chemistry, MIT, Cambridge, Massachusetts, July 24-28, 1989
Box 131, Folder 5	"Use of contamination control to convert accuracy in detector measurement to accuracy in concentration measurement," Rocky Mountain Conference, Denver, August 3, 1989
Box 131, Folder 6	"Motivations, methods and ethics of science, art and technology;" "Quest for 21st century scientists," Crown College, UC Santa Cruz, November 20, 22, 1989
Box 131, Folder 7	[Brain wiring] lecture, GE5 Class, Caltech, March 8, 1990
Box 131, Folder 8	"Role of brain wiring in science," Ph10c lectures, Caltech, May 13, 1991
Box 131, Folder 9	[Lead poisoning] talk, University of California, Irvine, June 7, 1991
Box 131, Folder 10	"Monitoring lead pollution via aquatic pathways," Cambria, England, September 6, 1991
Box 131, Folder 11	"Geological trends in lead exposure," 9th International Neurotoxicology Conference, Little Rock, Arkansas, October 28, 1991
Box 131, Folder 12	"Continental origin and industrial trace metals in the middle latitude troposphere," Scripps Institution of Oceanography, La Jolla, January 15, 1993
Box 131, Folder 13	"Eras of the <u>Hss</u> mind," Geology Club Lecture, Caltech, January 27, 1993
Box 131, Folder 14	"The age of the Earth," Gualala, California, May 22, 1995

Part B: Undated talks

Box 132, Folder 1	Ancient silver talk
Box 132, Folder 2	"Analyses of lead at level of 10 -13 g/g"
Box 132, Folder 3	Distribution of U and Pb in igneous rocks
Box 132, Folder 4	"Ecology and prevention of disease"
Box 132, Folder 5	Extent of lead pollution in humans
Box 132, Folder 6	Lead in the environment talk
Box 132, Folder 7	[Lead poisoning] talk
Box 132, Folder 8	[Lead pollution] talk
Box 132, Folder 9	[Lead toxicology] talk
Box 132, Folder 10	Low Pb rat talk
Box 132, Folder 11	[Natural levels of lead]
Box 132, Folder 12	"No place where Pb in atmosphere is natural"
Box 132, Folder 13	[Ocean] Pb pollution effects]
Box 132, Folder 14	[Oceanic lead pollution] talk
Box 132, Folder 15	[Polar snow] talk
Box 132, Folder 16	"Problems associated with the evaluation of lead pollution"
Box 132, Folder 17	Miscellaneous talks List of talks 1974-1987

Box 132, Folder
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Outline of talks

Part C: Testimonies and statements

Testimony before the Subcommittee on Air and Water Pollution of the U.S. Senate Committee on Public Works, June 15, 1966

Box 133, Folder 1
Box 133, Folder 2

Original statement re: air pollution

Correspondence 1966; 1996

Environmental Defense Fund

Box 133, Folder 3
Box 133, Folder 4
Box 133, Folder 5

Patterson's statement, April 1970

Petition 1970

Newsletter 1970-1973

Environmental Protection Center

Box 133, Folder 6
Box 133, Folder 7
Box 133, Folder 8

Patterson's statement August 1971

Petition 1972

Correspondence 1970-1972

Testimony before U.S. House of Representatives Committee on Science and Technology September 18, 1975

Box 133, Folder 9
Box 133, Folder
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Original statement re: industrial chemical waste disposal into ocean waters

Correspondence

Testimony before the State of California Air Resources Board November 4, 1975

Box 133, Folder
11

Original statement and related material re: air pollution in California

Box 133, Folder
12

Correspondence

Box 134, Folder 1
Box 134, Folder 2
Box 134, Folder 3
Box 134, Folder 4
Box 134, Folder 5

California Legislature Assembly Bill no. 79 1970

California Legislature Assembly Bill no. 79 correspondence

California Legislature Assembly Bill no. 399 1971

Lead poisoning newspaper clippings 1965-1991

Lead pollution newspaper clippings 1963-1989

Section X: Grant Proposals

Additional Note

API

American Petroleum Institute

EPA

Environmental Protection Agency

NASA

National Aeronautics and Space Administration

NIH

National Institute of Health

NIEHS

National Institute of Environmental Health Sciences

NSF

National Science Foundation

USAEC

United States Atomic Energy Commission

Box 135, Folder 1
Box 135, Folder 2

API proposal: "Age dating of rocks" 1954; See also: Section VI, API Project no. 53

U.S. AEC proposal: "Determination of geological ages by radioactive methods"

1955-1957 (Contract AT 11-1-208); See also: Section VI, API Project no. 53

Box 135, Folder 3
Box 135, Folder 4

NSF proposal: "Geochemical investigation of lead isotopes in the oceans" 1957

NSF proposal: "The construction of a mass spectrometer to implement studies of the isotopic evolution of lead in the Earth's crust" 1960

Box 135, Folder 5

U.S. AEC proposal: "Study of fundamental geochemistry of critical natural materials" 1962-1966

Box 135, Folder 6	NIH proposal: "Measurement of common lead in the Earth's hydrosphere" 1963
Box 135, Folder 7	NASA proposal: "Investigations in the isotopic systems of uranium, thorium, lead in lunar materials" 1965
Box 135, Folder 8	NSF proposal: "Measurement of common lead in Antarctic snow" 1965; See also: Section VI, Greenland and Antarctica research projects
Box 135, Folder 9	Sloan Fund proposal: [Development of metallurgy in the new world] 1970; See also: Section VI, Metallurgy in South America research
Box 135, Folder 10	U.S. Department of Interior/NIH proposal: "Investigation of lead pollution and the occurrence and distribution of 17 other metals in the biosphere" 1970-1975
Box 135, Folder 11	NIH proposal: "Analysis of lead in blood" 1971-1973
Box 135, Folder 12	U.S. AEC proposal: "Determination of biological discrimination factors for alkalies and alkaline earths within natural ecosystems" 1971
Box 135, Folder 13	NSF proposal: "Determination of biological discrimination factors for metals within natural ecosystems" 1971-1972
Box 135, Folder 14	The Fleischman Foundation proposal: "Determination of natural levels of some toxic and nutritious metals in the environment" 1971-1972
Box 135, Folder 15	NSF proposal: "Lead isotope tracers in ancient copper and silver artifacts" 1971
Box 135, Folder 16	U.S. AEC proposal: "Lead transport from the lithosphere to the biosphere" 1971-1973
Box 136, Folder 1	EPA proposal: "Studies of lead and mercury in the biosphere" 1971-1973
Box 136, Folder 2	EPA proposal: "Tin in lakes and their watersheds: effects of environmental disturbance on fresh water quality" 1971-1974
Box 136, Folder 3	EPA proposal: "Tracing lead isotopes in blood to aerosols and food" 1971-1973
Box 136, Folder 4	The Rockefeller Foundation proposal: "Air-Water-Land relationships for selected pollutants in Southern California" 1972
Box 136, Folder 5	NSF proposal: "Determination of the input and transport of pollutant lead in marine environments using isotope tracers" 1972-1977; See also: Section VI, IDOE Research Projects
Box 136, Folder 6	NSF proposal: "Biological fractionation of metals in natural systems" 1973-1978 (Grant no. GB-31038); See also: Section VI, Thompson Canyon research projects
Box 136, Folder 7	Summary report to NSF proposal re: Grant no. GB-31038
Box 136, Folder 8	NSF proposal: "Study of lead pollution in Ross Sea ice water, sediments and marine organisms" 1974-1975
Box 136, Folder 9	EPA proposal: "Use of selected tree bark tissues as substitutes to air filters to monitor impact of industrial land aerosols on the rural environment" 1976
Box 136, Folder 10	NSF proposal: "Analysis of lead in Greenland drill core ice by IDMS" 1977; See also: Section VI, GISP research projects
Box 137, Folder 1	NSF proposal: "The biological transport of metals and hydrocarbons from the mixed mid-depth and sediments" 1977-1979
Box 137, Folder 2	NSF Multi-Institutional proposal: BIOTRANS (studies on the Biological Transport of Materials from surface to deep ocean waters) 1977-1979
Box 138, Folder 1	NSF proposal: "Sea-Air-Exchange of metals and hydrocarbons" 1977
Box 138, Folder 2	NSF multi-institutional proposal: SEAREX (Sea-Air Exchange) 1977; See also: Section VI, SEAREX Research Projects
Box 138, Folder 3	NSF proposal: "The general occurrence of common lead in the world's major oceans and perturbations caused by anthropogenic inputs" 1978
Box 138, Folder 4	NSF and Treadway Trust Fund proposal: "Plasma lead concentrations in individuals with various levels of exposures to and intoxication from lead" 1978-1981
	NSF proposal: "The impact of anthropogenic lead on natural biogeochemical cycling process in two North American ecosystems" 1979 NSF proposal: "The occurrence of common lead in the open ocean" 1979-1983
Box 138, Folder 6	Original proposal and correspondence 1978-1979
Box 138, Folder 7	Revisions and renewals 1980-1983
Box 139, Folder 1	NSF proposal: "Measurement of changes in eolian flux of common lead to the oceans using Pb/ ²¹⁰Pb record in coral" 1980
Box 139, Folder 2	NSF proposal: "Determination of lead in Antarctic snow" 1981

Box 139, Folders 3-4	NSF renewal proposal: "Sea Air Exchange Project (SEAREX): exchange of Pb, Ca, Sr, Ba, K, Rb, Cs" 1981-1984 [2 folders]
Box 139, Folder 5	NSF Multi-Institutional Research Renewal proposal: " SEAREX (Sea-Air-Exchange)" 1981
Box 140, Folder 1	NSF proposal: "Impact of anthropogenic lead on natural biogeochemical cycling processes in terrestrial ecosystems" 1982-1983
Box 140, Folder 2	NSF proposal: "SEAREX: Eolian lead input to the North Pacific from westerlies" 1984-1985
Box 140, Folder 3	NSF proposal: "Temporal variations of trace metals and sulfur in Antarctic ice and snow" 1984 (Grant no. DPP 84-3490)
Box 140, Folder 4	NSF proposal: "Acquisition of a new thermal ionization mass spectrometer" 1985
Box 140, Folder 5	NSF proposal: "Preliminary report on changes of lead concentrations in Antarctic ice during the transition from Late Wisconsin to Holocene" 1985 (Supplement to Grant no. DPP 84-3490)
Box 141, Folder 1	NSF proposal: "Implementation of clean lab techniques in Dept. of Chem. at University of Otago, Dunedin, New Zealand" 1986
Box 141, Folder 2	NSF proposal: "Skeletal concentrations of Pb, Ca, and Ba of Prehistoric American Indians from Malibu, CA and Rainbow Bridge, AZ" 1986; <i>See also:</i> Section VI, Lead in Indian and human tissue research
Box 141, Folder 3	NSF proposal: "Identification of atmospheric transports pathways by stable lead isotopes" 1987; <i>See also:</i> Section III, "Stable lead isotope tracers " 1987 NIH proposal: "Lead in ancient bone: clue to dysfunctions in modern people" 1987-1990
Box 141, Folder 4	May 1986 - December 1986
Box 141, Folder 5	January 1987 - July 1990
Box 142, Folder 1	NSF proposal: "Studies of enrichments of lead in sea salts using stable lead isotopes measurements" 1987
Box 142, Folder 2	NSF proposal: "Trace element cycling at the ocean-atmosphere interface in the North Atlantic using Pb and its isotopes as tracers" 1987-1990
Box 142, Folder 3	NSF proposal: "Lead and its isotopes in Greenland air and fresh snow at the summit site" 1988-1990; <i>See also:</i> Section VI, GISP Research Projects NSF and EPA joint proposal: "Records of natural and industrial lead in Greenland ice" 1988
Box 142, Folder 4	April 1987 - May 1987
Box 142, Folder 5	June 1987 - May 1990; <i>See also:</i> Section VI, GISP Research Projects
Box 142, Folders 6-7	NSF proposal: "Studies of eolian input fluxes of Bi, Cd, and Tl to the North Atlantic corrected for recycled contributions from sea spray" 1988-1991 [2 folders]
Box 143, Folder 1	NSF proposal: "Studies of sources, fluxes and cycling of Cd, Tl, Bi and Pb in North Atlantic waters" 1988-1992
Box 143, Folder 2	NSF proposal: "Changes of Pb, Bi, Cd, dusts and salts in Greenland ice during the Wisconsin/Holocene transition and the Little Ice Age" 1989
Box 143, Folder 3	NIEHS proposal: "Occurrence of Pb in rat tissues at ultra-low levels" 1990-1993; <i>See also:</i> Section VI, Lead free rat research
Box 143, Folder 4	NIEHS proposal: "New mechanisms in lead biodynamics at ultra-low levels" 1991-1994
Box 143, Folder 5	Beckman Institute Research Grant proposal: "Use of PET-Scan/NMRI data" 1992
	Section XI: Biographical
Box 144, Folder 1	Mitchellville High School, Students' handbook 1937-1938 University of Chicago 1944-1951
Box 144, Folder 2	Chemistry 261: lecture notes, student exams 1948
Box 144, Folder 3	Chemistry 262: syllabus, lecture notes, student exams 1948
Box 144, Folder 4	Chemistry 301-303: student exams 1946-1948
Box 144, Folder 5	Chemistry 321-323: student exams 1946-1947
Box 144, Folder 6	Chemistry 361-362: lecture notes, student exams 1946-1947
Box 144, Folder 7	Chemistry 368: student exams
Box 144, Folder 8	Physics 233: experiments
Box 144, Folder 9	Chemistry Department preliminary examinations 1943-1948

Box 144, Folder 10	Crystallography lecture notes 1949-1950
Box 144, Folder 11	Notebooks: "Pb analysis; Ca analysis" 1949-1951
Box 144, Folder 12	"Atomic scientists" lecture notes
Box 144, Folder 13	PhD dissertation, June 1951 [2 copies]
	Newspaper clippings
Box 145, Folder 1	1963-1974
Box 145, Folder 2	1975-1980
Box 145, Folder 3	1981-1984
Box 145, Folder 4	1985-1995
Box 145, Folder 5	Photographs 1975-1980; 1995
	Biographical information
Box 145, Folder 6	Curriculum vitae (several versions)
Box 145, Folders 7-8	Bibliography (several versions) [2 folders]
	Awards and honors
Box 146, Folder 1	Patterson Peak, Queen Maude Mountains, Antarctica, dedicated 1967
Box 146, Folder 2	Honorary degree from the University of Paris, March 11, 1975; See also: Section IX, Part A
Box 146, Folder 3	Award of V.M. Goldschmidt Medal of the Geochemical Society, November 1980
Box 146, Folder 4	Professional Achievement Award of the University of Chicago Alumni Association 1981
Box 146, Folder 5	Asteroid (2511) Patterson, dedicated 1983
Box 146, Folder 6	Tyler Prize for Environment Achievement, April 1995
	Biographical miscellany
Box 146, Folder 7	Appointment at Caltech 1952-1991
	Davidson's [Cliff] book (re: Patterson's life and career)
Box 146, Folder 8	Drafts and correspondence 1992-July 1994
Box 146, Folder 9	Drafts and correspondence September 1994-1995
Box 146, Folder 10	Election to the National Academy of Science 1987
Box 146, Folder 11	Nomination of Patterson for a creative award 1988
Box 147, Folders 1-2	Nomination of Patterson for Nobel Peace Prize 1980-1983 [2 folders] See also: Section I, 2.9, 2.26
Box 147, Folder 3	Nomination of Patterson for Pew Scholars Award 1991
Box 147, Folder 4	Retirement Symposium at Caltech: "Topics in global geochemistry", December 3-4, 1992
Box 147, Folder 5	Testimonials
Box 147, Folder 6	Poems 1981-1994
Box 147, Folder 7	Poems by others [from Patterson's office bulletin board]
Box 147, Folder 8	Cartoons and caricatures