
Finding Aid for the Samuel Epstein Papers 1942-2002

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Descriptive Summary

Title: Samuel Epstein Papers,

Date (inclusive): 1942-2002

Collection number: 10159-MS

Creator: Epstein, Samuel 1919-2001

Extent: 36 linear feet

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

Abstract: The working papers, correspondence, scientific data, teaching and biographical material of Samuel Epstein form the collection known as the Samuel Epstein Papers at the California Institute of Technology Archives. Epstein had a distinguished career in isotope geochemistry, resulting in the development of the carbonate paleotemperature scale, as well as the publication of some pioneering papers with regards to the measurements of paleotemperatures and of the isotopic composition of water in the meteorological cycle. Epstein carried out important research on the Antarctic and Greenland ice sheets, on isotope composition of hydrogen and oxygen in tree rings, and on the origin of meteorites, tektites, and lunar rocks and minerals.

Physical location: Archives, California Institute of Technology.

Language of Material:

Languages represented in the collection:

English

Access

The collection is open for research with the exception of the following seven files: 14.7, 15.7, and 15.10 through 15.14, that are closed due to their confidential matters. Researchers must apply in writing for access.

Publication Rights

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Preferred Citation

[Identification of item], Samuel Epstein Papers, 10159-MS, Caltech Archives, California Institute of Technology.

Acquisition Information

The papers were donated to the Caltech Archives by Samuel and Diane Epstein in two installments. The first installment was donated by Samuel Epstein himself, on September 1996, and consisted of five storage boxes that were inventoried in 1998. Forty-three additional storage boxes were donated by Epstein's widow, Diane, on January 2002.

Biography

Samuel Epstein was born near Kobryn, Poland in 1919 and moved to Winnipeg, Canada with his family in 1927. After graduating from high school in 1937, he attended the University of Manitoba, where he earned a BS in geology and chemistry in 1941 and a MS in chemistry in 1942. In 1944 he received his PhD in chemistry at McGill University, where he conducted research on the kinetics of reactions involving the high explosive RDX.

Immediately after graduation Epstein joined the Canadian Atomic Energy Project in Montreal where he worked on rare-gas fission products resulting from the fission of U235.

In 1948, he joined Nobel Laureate Harold Urey at the University of Chicago on an oxygen isotope paleotemperature project that Urey was in the process of initiating. The period Epstein spent at the University of Chicago (1948-1952) was the beginning of his distinguished career in isotope geochemistry.

In June 1952, Epstein was invited by Harrison Brown to join a team of scientists at Caltech, among them Clair C. Patterson and Charles McKinney. This group formed the nucleus of what would become Caltech's geochemistry program. Epstein joined the Geology Division as a research fellow in geochemistry in 1952, was appointed Associate Professor of Geochemistry in 1954, and Professor of Geochemistry in 1959.

Epstein began his research on the utility of oxygen isotope data in igneous, metamorphic, and sedimentary related problems, as well as investigating the isotopic fractionations associated with the growth of plants and the formation of petroleum. He carried out important research on the Antarctic and Greenland ice sheets, on isotope composition of

hydrogen and oxygen in tree rings, and on the origin of meteorites, tektites, and lunar rocks and minerals.

Epstein was widely recognized for his scientific achievements. In 1976 he was elected to both the National Academy of Sciences and the American Academy of Arts and Sciences. He was the recipient of the Day Medal of the Geological Society in 1976, the Goldschmidt Medal of the Geochemical Society and the Wollaston Medal, both in 1977, and the Urey Medal of the European Association of Geochemistry in 1995. During 1978-1979 he served as president of the Geochemical Society.

From 1984 until his retirement in 1990, Epstein held the position of William E. Leonhard Professor of Geology at Caltech. He continued his productive scientific work in meteorite geology and past climate changes until his death on September 17, 2001.

Scope and Content

The collection is divided into seven series, organized in 84 archival boxes. The correspondence series contains both incoming and outgoing correspondence organized in alphabetically ordered folders.

Series 2 contains material that relates directly to the California Institute of Technology. This series is subdivided into Epstein's teaching material, Division of Geological and Planetary Sciences (GPS) material, committees and reviews.

Epstein's manuscripts, preprints and reprints (Series 3), and his talks and conference meetings materials (Series 4) are arranged in chronological order and contain a wide variety of related documents, from graphs to notes to related correspondence.

Epstein's research files (Series 5) are subdivided into two categories: grant proposals and general research materials organized by research subjects and topics.

The technical files (Series 6) which make up over half the collection, contain mass spectrometer data books as well as laboratory notebooks of Epstein and his collaborators. Notebook numbering refers to the sequence of experiments.

The biographical section contains a small amount of biographical material.

The collection is organized into the following series:

- Series 1. Correspondence
- Series 2. California Institute of Technology
- Series 3. Manuscripts, Preprints and Reprints
- Series 4. Talks, Conferences and Meetings
- Series 5. Research Files
- Series 6. Technical Files
- Series 7. Biographical

Related Material

Researchers should also refer to Epstein's oral histories, conducted in 1985-1986 by Carol Bugé, which are deposited in the Caltech Archives.

Indexing Terms

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

Subjects

California Institute of Technology
Geochemistry
Isotope geology

Occupations

Geochemists

Series 1. **Correspondence**

| | |
|-----------------|--|
| Box 1, Folder 1 | Abe, Yutaka 1991 |
| Box 1, Folder 2 | Abelson, Philip H. 1957-1959, 1965, 1977 |
| Box 1, Folder 3 | Aharon, Paul 1982-1983 |
| Box 1, Folder 4 | Ahrens, Lois H. 1962, 1974-1975 |
| Box 1, Folder 5 | Air Pollution Foundation 1954-1955 |
| Box 1, Folder 6 | Aldrich, L. Thomas 1956-1958 |
| Box 1, Folder 7 | Allegre, Claude J. 1967, 1977, 1979, 1994, 1997 |
| Box 1, Folder 8 | Allmendinger, Roger J. 1975 |

| | |
|------------------|---|
| Box 1, Folder 9 | American Chemical Society 1950, 1977-1978 |
| Box 1, Folder 10 | Anders, Edward 1964, 1968, 1977, 1979, 1983 |
| Box 1, Folder 11 | Anderson, Thomas F. 1967, 1978-1979 |
| Box 1, Folder 12 | Annexstad, John O. 1982-1986 |
| Box 1, Folder 13 | ARCO Oil and Gas Company 1982-1986 |
| Box 1, Folder 14 | Axelrod, Daniel I. 1982 |
| Box 1, Folder 15 | A miscellaneous |
| | Scope and Content Note |
| | Abrajano, Jun 1983 |
| | Ahrens, Thomas J. 1997 |
| | Aines, Roger 1983 |
| | Akeroyd, Michele 1997 |
| | Albee, Arden L. 1982 |
| | Ambrose, Stan 1993 |
| | American Academy of Arts and Sciences 1978, 1985 |
| | American Association of Petroleum Geologists 1961 |
| | American Geological Institute 1968 |
| | American Geophysical Union 1964, 1980, 1985 |
| | <i>American Journal of Science</i> 1977 |
| | American Men and Women of Science 1978-1979 |
| | American Meteorological Society 1959-1960 |
| | <i>American Scientist</i> 1977 |
| | Amster, Warren 1978 |
| | Amundson, Ronald 1993 |
| | <i>Analytical Chemistry</i> 1965 |
| | Angell, James 1956 |
| | Anderson, Alfred T., Jr. 1962 |
| | Anderson, Thomas F. 1984 |
| | Andrae, Meinrat O. 1995 |
| | Angino, Ernest E. 1961, 1967 |
| | Arizona-Nevada Academy of Science 1982 |
| | Arnold, James R. 1977 |
| | Arthur, Michael A. 1980 |
| | Aschenbrand, Leonard M. 1951 |
| | Ashburn, Edward V. 1953 |
| | Ashendorf, Debra 1979 |
| | Aswathanarayana, U. 1978 |
| | Ancour [?], A. M. 1995 |
| | Ault, Wayne U. 1958 |
| | Awramik, S. M. 1977 |
| Box 1, Folder 16 | Bader, Richard G. 1953, 1956, 1964 |
| Box 1, Folder 17 | Barsukov, V. L. 1977, 1983, 1985 |
| Box 1, Folder 18 | Becker, Richard 1977, 1979, 1981, 1987 |
| Box 1, Folder 19 | Begeman, Fred 1982-1983 |
| Box 1, Folder 20 | Benson, Carl S. 1961-1962, 1966-1967 |
| Box 1, Folder 21 | Bigeleisen, Jacob 1968, 1977, 1981, 1986, 1989, 1996 |
| Box 1, Folder 22 | Bowen, Robert 1959-1960, 1965, 1984 |
| Box 1, Folder 23 | Bradley, W. H. 1954-1955 |
| Box 1, Folder 24 | Brand, Uwe 1984-1985, 1993 |
| Box 1, Folder 25 | Britton, Peter 1996-1997 |
| Box 1, Folder 26 | Broecker, Wallace 1957-1959, 1966, 1977-1978, 1980, 1987 |
| Box 1, Folder 27 | Brown, Harrison S. 1952 |
| Box 1, Folder 28 | Buchsbaum, Ralph 1949-1951 |
| Box 1, Folder 29 | Bumsted, M. Pamela 1982-1983 |
| Box 1, Folder 30 | Buseck, Peter 1980-1981, 1994-1995 |

Box 1, Folder 31

B miscellaneous**Scope and Content Note**

Back, William 1964
Baertschi, P. 1950, 1951
Barghoorn, Elso S. 1979
Barnes, H. L. 1959
Barron, Eric J. 1992
Barton, Paul B. 1985
Basu, Asish R. 1986
Bayly, Brian 1967
Beckman, Arnold O. 1967
Bedell, Elizabeth A. 1979
Bertsehinger [?], Ed 1979
Bellemare, Guy R. 1985
Benson, Bruce B. 1958
Benson, William E. 1957
Bernstein, R. B. 1956
Bengelsdorf, Irv[ing] 1980
Berkley Geochronology Center 1994
Bhandari, R. 1981, 1984
Bhattacharya, S. K. 1996
Biddle Co. 1950
Biochimica et Biophysica Acta 1959
Blattner, Peter 1977
Blum, Joel 1993
Bodvarsson, Gunnar 1958, 1961
Boettcher, Art 1977, 1980
Bollay, Eugene 1955
Boato, G. 1958
Bonner, James 1977
Bonner, Francis T. 1974
Bottinga, Yan 1962, 1975
Borok [?], Keilisundated
Boyd, F. R. 1957
Boyer, Paul D. 1985
Bradley, J. H. 1954
Breger, Irving A. 1978
Brenninkmeijer, C. A. M. 1982
Bricout, J. 1978
British Broadcasting Corporation 1977
Brittingham, Michael 1960
Brown, Allan H. 1951
Brown, Ronald G. 1984
Brownlow, Arthur H. undated
Bruhingarne [?], Al 1977
Buckwold, Sidney Joshua 1957
Bullard, Edward 1977
Brugman [?], Mindy undated
Burke, Kevin C. 1984
Burnett, D. S. 1986
Burt, Eme 1992
Bush, Robert 1993
Busenberg, E. 1981
Bussod, Gilles Y. 1983
Byers, Horace 1959, 1960
Byrne, Roger 1997

Box 2, Folder 1

Canadian Journal of Earth Sciences 1983

| | |
|------------------|--|
| Box 2, Folder 2 | Carrara, Paul 1996-1998 |
| Box 2, Folder 3 | Cerling, Thure E. 1982, 1992, 1996 |
| Box 2, Folder 4 | Cervellini, Admar 1958, 1977 |
| Box 2, Folder 5 | Chamberlain, Joseph W. 1972, 1977 |
| Box 2, Folder 6 | Chang, Sherwood 1981, 1985-1986 |
| Box 2, Folder 7 | <i>Chemical & Engineering News</i> 1967 |
| | Church, Thomas. See: Series 2, C. C. Patterson Symposium Committee |
| Box 2, Folder 8 | Clarke, Roy S., Jr. 1982-1983 |
| Box 2, Folder 9 | Clayton, Robert N. 1956-1961, 1963, 1972, 1976-1979, 1984, 1998 |
| Box 2, Folder 10 | Cloud, Preston E. 1956, 1958-1959, 1977-1978 |
| Box 2, Folder 11 | Cole, Kenneth L. 1997-1998 |
| Box 2, Folder 12 | Compston, William 1958, 1963-1964, 1978 |
| | Cooper, Dan M. See: Series 5, Respiration Research |
| Box 2, Folder 13 | Craig, Harmon (See also: Wilson, A. T.) 1954-1959, 1979, 1983, 1988, 1992-1993 |
| Box 2, Folder 14 | Cronin, John R. 1987, 1990-1991, 1994 |
| Box 2, Folder 15 | C miscellaneous |

Scope and Content Note

California Institute of Technology, Alumni Association 1978
 California Institute of Technology, Industrial Associates 1967
 California Institute of Technology, Physics Faculty 1983
 Cameron, Maryellen 1983
 Campbell, Ian 1952, 1956, 1978
 Carnegie Institution of Washington 1958
 Carter, David L. 1992
 Casshyap, S. M. 1965
 Chahine, Moustafa T. 1996, undated
 Chang, Shih-bin Robin 1982
 Charney, Jule G. 1959
 Chave, Keith E. 1966
 Chayes, Felix 1955
Chemical Abstracts 1951
 Chenghua 1992
 Chevron Oil Field Research Company 1979, 1981
 Choi, Yoon Young 1998
 Chow, Tsaihwa Jaimes 1955, 1979
 Clausen, Carl J. 1978
 Cicerone, Ralph J. 1994
 Clayton, Donald 1993
 Clemens-Knott, Diane 1997
 Commission de la Carte Géologique du Monde 1981
 Condon Society 1983
 Consolidated Engineering 1950, 1952
 Continental Oil Company 1958
 Cook, Jack 1982
 Cook, Lester 1982
 Cooper, Dan M. 1986
 Coplen, T. 1978
 Corless, James T. 1964
 Corning Glass Works 1956
 Correns, Carl W. 1955
 Courtillot, Vincent 1994
 Cox, Alan 1981
 Crowell, John C. 1958
 Criswell, David R. 1976, 1977
 CRC Press, Inc. 1979, 1982
 Cross, Carroll E. 1993
 Curry, William B. 1989
 Curtis, Garniss 1994

Box 2, Folder 16
Box 2, Folder 17
Box 2, Folder 18
Box 2, Folder 19
Box 2, Folder 20
Box 2, Folder 21
Box 2, Folder 22
Box 2, Folder 23
Box 2, Folder 24
Box 2, Folder 25

Danin, Avinoam 1977
Dansgaard, Willi 1955-1958
Deamer, D. W. 1988
Degens, Egon T. 1958-1959
DeNiro, Michael 1975-1979, 1983, 1985-1988, 1991-1992, 1994
Dicke, R. H. 1977-1978
Dobson, Patrick F. 1985-1988, 1993
Dole, Malcolm 1954
Douthitt, Charles 1980-1981, 1992
D miscellaneous

Scope and Content Note

Daugherty, Robert L. 1978
Davidson, Norman 1960
Davis, George H. 1982
Davis, Raymond, Jr. 1977
Davis, W. B. 1980
De Ford, Ronald K. 1959
Dees, Bowen C. 1957
de Groot, Pier 1998
Delaney, Margaret Lois 1983
Delmar Scientific Laboratories 1955
Densmore, Morris A. 1987
Dent, Sydney undated
DeVere, Dinah 1982
Deuser, Werner G. 1966
de Vries, Hessel 1959
Dickey, John S. 1979
Dickinson, William R. 1982, 1983
Dietrich, John 1983
Dibeler, Vernon H. 1955
Dickson, Frank W. 1954
Djerassi, Carl 1982, 1983
Dobson, Pat 1988
Dodd, James R. 1963
Doe, Bruce R. 1967
Domingues Oliveira, Margarete 1993
Donahue, Tom 1994
Doner, Landis W. 1982
Donath, Fred A. 1967
Doetravsky[?], J. 1962
Doyle, Peter 1983
Driesner, Thomas 1997
Dubois, A. D. undated
Dunne, Patrick, C. 1977
Durham, Wyatt J. 1951

Box 3, Folder 1
Box 3, Folder 2
Box 3, Folder 3
Box 3, Folder 4
Box 3, Folder 5
Box 3, Folder 6
Box 3, Folder 7
Box 3, Folder 8
Box 3, Folder 9
Box 3, Folder 10
Box 3, Folder 11

Edsall, John T. 1968
Edward, John T. 1984-1985
Edwards, G. 1950, 1952
Eidelman, Amir 1979
Eiler, John M. 1994, 1996
Emerson, William K. 1954
Emiliani, Cesare 1958-1959, 1977-1978, 1989, 1993
Engel, A. E. J. 1957, 1967, 1985
Erel, Yigal 1986, 1988-1991
Ericson, Jonathon 1982
Eugster, Hans P. 1974, 1980, 1988

Box 3, Folder 12

E miscellaneous

Scope and Content Note

Early, Tom 1973
Edwards, Raymond R. 1957
Ehleringer, James 1994
Electro-Optical Systems, Inc. 1965
Elehard undated
Ellison, Samuel P., Jr. 1957
Elsevier Science Publishers 1985
Emery, K. O. 1956
Encyclopedia Britannica Films Inc. 1951
Englert, Peter A. J. 1992
Enore [?] 1956
Enrico Fermi Institute 1989
Enright, Nancy 1981
Epstein, Emanuel 1981
Ericson, David B. 1984
Eslinger, Eric V. 1985
Ewing, Maurice 1956
Experimental Mycology 1985

Box 3, Folder 13

Fairbanks, Richard D., nomination for the Ewing Medal 1997

Box 3, Folder 14

Feng, Xiahong 1990-1996, 1999-2000

Box 3, Folder 15

Fireman, E. L. 1983

Box 3, Folder 16

Forester, Richard 1977, 1983

Box 3, Folder 17

Freund, Raphael 1975, 1977

Box 3, Folder 18

Friedman, Irving 1951-1960, 1978, 1980-1981, 1998

Box 3, Folder 19

Friedrichsen, Hans 1966-1967, 1976-1977, 1982

Box 3, Folder 20

Frumkin, Amos 1997

Box 3, Folder 21

F miscellaneous

Scope and Content Note

Failor, Becky 1984
Fairbridge, Rhodes 1981
Fall, Mamadou 1996
Farmer, Lang G. 1987
Faure, Gunter 1986
Fein, Jay S. 1990
Felton, J. R. 1959
Fenselau, Catherine 1997
Fisher, Al G. 1995, undated
Folinsbee, R. E. 1959
Fongliang, Jiang 1982, 1986
Forster, Robert E. 1968
Forester, Richard W. 1988
Fortus 1998
Foundation for Research into the Origin of Man 1979
Francey, R. J. 1979
Frakes, L. A. 1978
Freeman, Gerald W. 1978
Fritts, Harold C. 1974
Fritz, P. 1983
Fry, Brian 1978
Fudali, Robert F. 1983
Fuller, M. 1987
unidentified F [Wilby A.] sender 1986

Box 4, Folder 1

Galimov, Eric 1977-1982, 1984-1985, 1987-1996

| | |
|------------------|---|
| Box 4, Folder 2 | Garlick, Don G. 1964-1966 |
| Box 4, Folder 3 | Gat, Joel R. 1963, 1966, 1987-1988 |
| Box 4, Folder 4 | Geiss, Johannes 1976, 1981, 1983 |
| Box 4, Folder 5 | Geochemical Society 1959, 1976-1980 |
| Box 4, Folder 6 | <i>Geochimica et Cosmochimica Acta</i> 1953-1956, 1977-1981, 1983, 1985-1987, 1992 |
| Box 4, Folder 7 | Geological Society of America 1953, 1959, 1967, 1976, 1978-1979, 1993 |
| Box 4, Folder 8 | <i>Geophysical Research Letters</i> 1984-1985 |
| Box 4, Folder 9 | Geoss Company (See also: Series 5, Water samples analysis) 1983-1984 |
| Box 4, Folder 10 | Getty Museum 1984 |
| Box 4, Folder 11 | Gibson, Everett K., Jr. 1972 |
| Box 4, Folder 12 | Goldsmith, Julian 1962, 1965, 1982 |
| Box 4, Folder 13 | Gopalan, K. 1978, 1980, 1992-1993 |
| Box 4, Folder 14 | Gow, Anthony J. 1964-1965, 1967-1975, 1977-1978, 1995 |
| Box 4, Folder 15 | Gueron, J. 1954 |
| Box 4, Folder 16 | G miscellaneous |
| | Scope and Content Note |
| | Galpert, Arni 1972 |
| | Gao, Guoqiu 1993 |
| | Garwin, Richard L. 1982 |
| | Geodata Systems, Inc. 1969 |
| | Gest, Howard 1979 |
| | Getty Oil 1982 |
| | Gibson, Everett K., Jr. 1975 |
| | Gilbert, Charles 1987 |
| | Gilbert, Meg 1984 |
| | Gillis, Marvi B. 1958 |
| | Ginsberg, Harold 1957, 1959 |
| | Ginsberg, Karen 1979 |
| | Ginsbuerg, Robert N. 1981 |
| | Godfrey, Kerr 1997 |
| | Gold, T. 1977 |
| | Goldanskii, Vitalii I. 1987 |
| | Goldberg, Edward G. 1959 |
| | Gonfiantini, Roberto 1975 |
| | Goncalves Leister, Adail Ricardo 1980 |
| | Goodall, D. W. 1968 |
| | Goodfellow, Wayne 1984 |
| | Goresey, Ahmed El 1983, 1984 |
| | Gorham, Peter 1989 |
| | Goris, Joop 1990 |
| | Gray, J. 1979 |
| | Graf, Donald L. 1963, 1965 |
| | Green, Ronald 1959 |
| | Greenwood, Robert undated |
| | Grigorieff, W. W. 1951 |
| | Grober, Frank 1979 |
| | Groesz, Arnold 1979 |
| | Grogan, Robert M. 1959 |
| | Gromet, Peter 1977 |
| | Gross, Grant M. 1962 |
| | Grossman, Ethan 1982 |
| | Grunenfelder, Marc 1964 |
| | Guan, Yin 1983 |
| Box 4, Folder 17 | Hall, John H. 1971 |
| Box 4, Folder 18 | Hamza, Mokhtar 1972-1974, 1977-1978, 1980, 1982 |
| Box 4, Folder 19 | Hayes, John M. 1976, 1978, 1984-1986 |
| Box 4, Folder 20 | Hebrew University of Jerusalem 1974-1985 |

| | |
|------------------|--|
| Box 4, Folder 21 | Hecht, Allen D. 1977, 1982 |
| Box 4, Folder 22 | Hirt, Bernhard 1964-1966 |
| Box 4, Folder 23 | Hoefs, Joachim 1967-1968, 1978 |
| Box 4, Folder 24 | Hoering, T. C. 1957-1958, 1984 |
| Box 4, Folder 25 | Horibe, Yoshio 1958, 1977 |
| Box 4, Folder 26 | Howell, B. F., Jr. 1958 |
| Box 4, Folder 27 | Hughes, Malcolm 1990-1992, 1994 |
| Box 4, Folder 28 | Hurley, P. M. 1955-1957 |
| Box 4, Folder 29 | Hurwitz, Theodore P. 1970, 1977, 1979, 1988 |

Box 4, Folder 30

H miscellaneous

Scope and Content Note

Haggerty, Janet A. 1987
 Hall, D. H. 1978
 Hamilton, James 1995
 Handler, Philip 1981
 Hanson, Gilbert 1983
 Hare, P. E. 1958
 Hargreaves, J. K. 1977, 1986
 Harmon, Russ 1977, 1982
 Harrison, Mark 1989
 Hart, Stanley R. 1989
 Harvard Medical School 1967
 Helgeson, Harold C. 1967
 Helsley, Charles E. 1977
 Hendy, Chris 1977
 Herzog, L. F. 1955
 Hess, H. H. , 1962, 1965
 Hewett, Foster D. 1957
 Hewitt, David undated
 Hewitt, Foster 1973
 Heymann, Dieter 1972, 1984
 Higashi, Akira 1957
 Hill, Robert 1992
 Hill, M. N. 1959
 Hinners, Noel W. 1977
 Hipple, J. A. 1951
 Hitchon, Brian 1986
 Hirner, Alfred 1982
 Ho, Tong-yun 1967
 Hoekstra, Henry R. 1955
 Hoernes, Stephan 1980
 Hole, Frank 1982
 Holland, H. D. 1979, 1989
 Hollin, John 1959
 Holt, R. B. 1950
 Honda, Masatake 1982
 Hoppe, Peter 1994
 Horberg, Leeland 1954
 Huang, Lin 1997
 Huang, Wen H. 1979
 Hubbs, Carl L. 1954
 Hubenschmidt, Debbie 1978
 Hughes, Dudley 1997
 Hughes Laboratories Chapter 1978
 Hulston, J. R. 1958
 Hurst, Andrew R. 1980
 Huss, Margaret A. 1995
 Hutcheon, Ian 1992
 Hutchinson, Clyde 1983, 1998
 Hutchison, R. 1981

Box 5, Folder 1

Ikin, Nicholas P. 1982

Box 5, Folder 2

***Isotope Geosciences* 1984**

Box 5, Folder 3

Ishida, Takanobu 1989, 1996, 1998

Box 5, Folder 4

I miscellaneous

Scope and Content Note

Ihinger, Phil 1985
 Ingerson, Earl 1960
 Inghram, Mark G. 1955, 1959
 Institute for Global Change Research & Education 1995
 International Nickel Company, The 1959
 Interscience Publishers, Inc. 1959
 Irvine, W. T. 1962
 Irving E. undated
 Irving E. (Ted) 1993, 1994
 Ito, Emi 1997

Box 5, Folder 5

Jahren, Hope 1995-1996

Box 5, Folder 6

Javoy, Marc 1966-1967, 1974, 1978, 1995

Box 5, Folder 7

Jedrysek, Marjusz 1985, 1991-1992, 1994

Box 5, Folder 8

Jensen, Mead LeRoy (See also: *Journal of Isotope Geology*) 1957-1965

Box 5, Folder 9

***Journal of Geology* 1957-1958, 1960**

Box 5, Folder 10

***Journal of Geophysical Research* 1962, 1965, 1967, 1972**

Box 5, Folder 11

***Journal of Isotope Geology* 1959-1961**

Box 5, Folder 12

J miscellaneous

Scope and Content Note

James, Harold L. 1955, 1958
 Jasper, John P. 1991
 Javitch, R. A. 1957
 Jercinovic, Michael J. 1982
 Jenner, Margot 1988
 Jinsheng, Yu 1992
 Jizba, Diane 1983
 Jonson, D. A. 1980
 Johnson, Mary 1977
 Johnson, Paul H. 1994
 Jones, Clive M. 1981
 Jones, Douglas 1978
 Joseph, Lionel 1954
 Jouzel, J. 1981
 Jowhar, T. N. 1980
 Juhlin, Homer 1966
 Junge, Christian 1960

Box 5, Folder 13

Kaplan, Isaac R. 1963, 1976, 1978, 1983-1985, 1988-1994, 1998

Box 5, Folder 14

Karhu, Juha 1982-1986, 1988, 1993-1994, 1998

Box 5, Folder 15

Kastner, Miriam 1988, 1992-1993

Box 5, Folder 16

Keilis-Borok, V. I. 1978-1979

Box 5, Folder 17

Kim, Kyu Han 1983-1985

Box 5, Folder 18

Knauth, Paul 1969, 1972-1978, 1981-1982, 1988-1989, 1994, 1997

Box 5, Folder 19

Knoll, Andrew H. 1976-1977, 1979-1980

Box 5, Folder 20

Kolodny, Yehoshua 1972-1978, 1980, 1983, 1988, 1994-1996

Box 5, Folder 21

Krishnamurthy, R. V. 1983-1991, 1993-1995

Box 5, Folder 22

Krishnamurty, Kotra V. 1967, 1977

Box 5, Folder 23

K miscellaneous**Scope and Content Note**

Kagan, B. M. 1967
 Kamb, Barclay 1960, 1977
 Karrow, P. F. 1976, 1977
 Kaufman, Aaron 1997
 Kamen [?], Martin 1977
 Kaula, William M. 1983
 Kerr-McGee Corporation 1975
 Keil, Klaus 1968
 Kerrich, Robert 1984
 Khare, Bishun N. 1982
 Kheshgi, Haroon S. 1991
 Kigoshi, K. 1982
 Killick, David 1982
 Killingley, John 1977
 Kim, Kyu Han 1983
 King, Elbert 1967
 Kinsman, J. J. 1964
 Kluwer Academic Press 1998
 Kochert, Gary 1982
 Kokke, Wilhelmus C. 1981
 Koltchanov, V. 1989
 Koomanoff, Fred 1986
 Konta, Jiri 1966
 Koplitz, Lynn Vogel 1987
 Kouvo, Olavi 1961
 Kratz, Ralph 1999
 Krauskopf, Konnie 1977
 Kuei-Ju, Li 1979
 Kuhn, Doris 1955
 Kulp, Laurence J. 1955
 Kullerud, Gunnar 1977
 Kuno, Hisashi 1965
 Kunzig, Robert 1988
 Kusakabe, Minoru 1980

Box 6, Folder 1

Lady Davis Fellowship Trust 1974, 1976-1980, 1983-1984, 1986, 1994, 1996

Box 6, Folder 2

Lal, Devendra 1964, 1977-1978, 1982-1986

Box 6, Folder 3

Lambert, Steve 1973-1977, 1979, 1990

Box 6, Folder 4

Lawrence, James 1977, 1979, 1981, 1986

Box 6, Folder 5

Leavitt, Steve 1996-1998, 2000

Box 6, Folder 6

Lee, Kuan-Hua 1979, 1981

Box 6, Folder 7

Lee, Typhoon 1986, 1988

Box 6, Folder 8

Leshin, Laurie A. 1993-1997

Box 6, Folder 9

Levinson, A. A. 1968, 1987, 1990-1991

Box 6, Folder 10

Libby, W. F. 1964, 1966-1967

Box 6, Folder 11

Lipschutz, Michael 1977, 1982-1983, 1985-1986, 1988

Box 6, Folder 12

Liu, Kon Kee 1979-1985

Box 6, Folder 13

Lowenstam, Heinz 1952, 1955-1957, 1960, 1967, 1971, 1977, 1987, 1993, 1998-1999

Box 6, Folder 14

Luz, Boaz 1977, 1980, 1982

Box 6, Folder 15

L miscellaneous

Scope and Content Note

Labeyrie, Laurent D. 1980
 Lafuun, M. undated
 Land, Lynton S. 1968, 1969
 Landergren, Sture 1960
 Lang, Anton 1977
 Langway, C. C. 1967
 Laves, F. 1968
 Lansgreari [?], Willi 1958
 Larso, Sven Åke 1979
 Lee, Paul W. 1993
 Leonhard, W. E. 1986
 Lerman, Juan Carlos 1974
 Leshin, Laurie 1997
 Letolle, R. 1977
 Leventhal, Joel S. 1968
 Liang, Bertrand 1983
 Libby, Leona Marshall 1973
 Librojo, Nieva T. 1986
 Lill, Gordon G. 1954, 1958
 Lin, Sheng Hsien 1980
 Lindsay, Gordon J. 1951
 Lipps, Jere H. 1983
 Littell, Emlen T. 1954
 Liu, Ti Lang 1982
 Llano, George A. 1958
 Loyd, Michael R. 1959, 1968
 Loader, Neil 1995
 Lodge, James P. 1955
 Longinelli, Antonio 1974
 Love, S. K. 1961
 Lovering, J. F. 1977
 Luetkehans, George H. 1953
 Luth, William C. 1959, 1993
 Lyon, G. L. 1979

Box 6, Folder 16

MacDonald, Gordon 1957

Box 6, Folder 17

Marathon Oil Company 1964-1969

Box 6, Folder 18

Markell, E. A. 1962, 1966-1967

Box 6, Folder 19

Matsubaya, Osamu 1974, 1976-1981

Box 6, Folder 20

Matthews, Alan 1976-1979, 1985, 1994

Box 6, Folder 21

McGraw-Hill Book Company 1958-1959, 1968-1969, 1977-1978

Box 6, Folder 22

McKee, Arthur 1992, 1998

Box 6, Folder 23

McKinnon, Shannon L. 1992-1993

Box 6, Folder 24

McMaster University, Canada 1967, 1972-1974

Box 6, Folder 25

Meteorological Society 1981-1984, 1986

Box 6, Folder 26

Miller, Randall 1983

Box 6, Folder 27

Muehlenbachs, Karlis 1979-1980, 1982

Box 6, Folder 28

Murray, James W. 1973, 1975

Box 6, Folder 29

Myers, Edward P. 1977, 1979

Box 6, Folder 30

M miscellaneous**Scope and Content Note**

Maccini, John 1983
 MacCready, Paul B. 1954
 Macdougall, J. D. 1979
 Macfarlane, R. D. 1983
 Machavaram, Madhav 1997
 Machta, Lester 1956
 Mackenzie, F. T. 1969
 MacKinnon, Peter K. 1979, 1980
 Macko, Stephen A. 1996, undated
 Maestas, Yvette 1997
 Magany [?], Terry undated
 Magaritz, Mordeckai 1980
 Mageda, Toshiko K. 1956
 Maley, F. 1977
 Mainz, V. 1994
 Mann, W. B. 1981
 Manuel, Oliver K. 1993
 Mariotti, A. undated
 Marshall, Brian 1979
 Margulis, Lynn 1977
 Martin, Glen E. 1978, 1979
 Martell, E. A. 1957
 Mason undated
 Matsuo, Sadao 1991
 Mauersberger, Konrad 1992
 McCormick, Lucille 1952
 McCloskey, Chester M. 1959
 McDonald, James M. 1967
 McFadden, Bruce J. 1992
 McGill University 1955, 1967, 1977
 McLafferty, F. W. 1986
 McNaughton, Neal 1982
 Meade, Bob 1959
 Meier, Mark F. 1956
 Meinschein, W. G. 1962, 1977
 Meisburger, Edward 1960
 Menard, Bill 1977
 Mercer, J. H. 1979
 Merkel, Carolyn 1992
 Merlivat, L. 1978
 Merrill, Russell B. 1975
Meteoritics & Planetary Science 1996
 Meyerowitz, Elliot 1998
 Miller, Charles 1978
 Miller, Donald S. 1983
 Miller, H. C. 1956
 Miller, Stanley 1959, 1983
 Milton, Charles 1955
 Minagawa, Masao 1991
 Mingde, Li 1980
 Minitti, Michelle 1997
 Mittman, Scott 1977
 Miyake, Y. 1966, 1967
 Mizutani, Hiroshi 1991
 Mobil Research and Development Corporation 1980
 Mohler, Fred L. 1954, 1957, 1959
 Mokstad, C. S. 1957, 1959

Monster, Jan 1958 10159-MS
 Mook, W. G. 1982
 Mooney, R. L. 1978
 Moorbath, Stephen 1979
 Moores, Eldridge M. 1994, 1995
 Moorman, William T. 1978
 Morrison, Joan undated

| | |
|------------------|--|
| Box 7, Folder 1 | Nadeau, Serge 1994-1999 |
| Box 7, Folder 2 | Nagy, Kenneth A. 1979, 1986 |
| Box 7, Folder 3 | Nakamura, Noboru 1991 |
| Box 7, Folder 4 | National Museum of Natural History 1993 |
| Box 7, Folder 5 | National Research Council 1953-1961 |
| Box 7, Folder 6 | National Science Foundation 1956-1959, 1980, 1983 |
| Box 7, Folder 7 | Natural History Museum of Los Angeles County 1986, 1992 |
| Box 7, Folder 8 | Nature 1976-1977, 1982-1986 |
| Box 7, Folder 9 | Newman, Dianne 1989-1999 |
| Box 7, Folder 10 | Newman, Sally 1984-1986 |
| Box 7, Folder 11 | Nier, Alfred O. 1951, 1954-1959, 1980, 1986, 1990-1991, 1994 |
| Box 7, Folder 12 | Northfelt, Donald 1980-1981 |
| Box 7, Folder 13 | N miscellaneous Scope and Content Note Nackowski, Matthew P. 1958 Nagata, Takesi 1983 Nagi, Bartholomew 1957 Nash, Denise Nelson 1995 Naudet, R. 1974 Naron, Oded 1982 Nelson, Robert M. 1957 Neuman, J. 1955 New Zealand Geological Survey 1959 Newburgh, R. W. 1965 Nief, G. 1959 Nozawa, Tamotsu 1982 |
| Box 7, Folder 14 | O'Neil, James R. (See also: Robert, François) 1966, 1972, 1977, 1985-1987, 1989, 1992 |
| Box 7, Folder 15 | Ott, Ulrich 1984-1985 |
| Box 7, Folder 16 | Ottesen, David, letters of recommendation 1972 |
| Box 7, Folder 17 | O miscellaneous Scope and Content Note Oak Ridge Associated Universities 1983 Oana, Shinya 1958, 1969 Occidental Research Corporation 1981 Ogata, K. 1968 O' Leary, Marion H. 1977 Olson, Eric 1978 Olson, Roger H. 1978 O'Nions, R. K. 1986 Opdyke, Neil D. 1982 Orr, Wilson L. 1959 Oxford University Press 1986 |
| Box 7, Folder 18 | Palin, J. Michael 1993-1995 |
| Box 7, Folder 19 | Park, Roderick B. 1957-1959 |
| Box 7, Folder 20 | Pate, Donald F. 1986-1987 |
| Box 7, Folder 21 | Patterson, Clair C. 1976, 1980-1981, 1983, 1989, 1994, 1996 |
| Box 7, Folder 22 | Perlen, Arthur S. 1982-1983, 1992 |
| Box 7, Folder 23 | Pillinger, C. T. 1976-1978, 1985 |
| Box 7, Folder 24 | Pineau, Françoise 1977-1980 |
| Box 7, Folder 25 | Puris, Erkis 1993-1995 |

Box 7, Folder 26

P miscellaneous

Scope and Content Note

Palmer, Allison 1984
 Pandey, G. C. 1977
 Parsons, James B. 1951
 Pasadena Unified School District 1978, 1979
 Patinkin, Don 1984
 Paulson, Glenn 1984
 Payne, Bryan R. 1966
 Pecora, W. T. 1959
 Peck, Dallas L. 1965
 Pellas, Paul 1982
 Pendall, Elise 1997
 Perry, Eugene C. 1967
 Peterson, Bruce J. 1985
 Peterson, Donald N. 1984
 Peterson, Larry 1985
 Petit, Michel 1985
 Pettijohn, F. J. 1954
 Pfefferkon, Hermann W. 1997
 Phillips Petroleum Company 1958
 Piazza, George 1979
 Picciotto, E. 1959
 Pilkey, Orrin H. undated
 Piper, Randy 1979
 Pisciotto, Kenneth 1977
 Pizzarello, Sandra 1986, 1987
Planta 1985
 Plummer, Niel L. 1994
 Ponnampuruma, Cyril 1978
 Potter, Russell 1977, 1978
 Price, Buford P. 1983
 Price, Douglas T. 1982
 Printing Control Services, Inc. 1978
 unidentified P. [Don] sender 1954

Box 7, Folder 27

Quistwater, Jaques 1958

Box 8, Folder 1

Rakestraw, Norris W. 1953-1954

Box 8, Folder 2

Rees, C. E. 1979, 1983-1985

Box 8, Folder 3

Reuter, J. H. 1965-1967

Box 8, Folder 4

Reynolds, John 1958, 1966, 1977, 1982, 1989

Box 8, Folder 5

Rigden, Sally M. 1980, 1984-1985

Box 8, Folder 6

Riley, N. 1955, 1959, 1977

Box 8, Folder 7

Ripperdon, Robert 1983-1984, 1994, 1996

Box 8, Folder 8

Robert, François 1978-1981, 1984-1991, 1995

Box 8, Folder 9

Rockwell International Corporation 1976-1977

Box 8, Folder 10

Rodrigues, Claudio 1974-1978, 2000

Box 8, Folder 11

Rosenbaum, Jeffrey 1982, 1984

Box 8, Folder 12

Roth, Etienne 1956-1957, 1963, 1980-1986, 1988, 1990, 1992

Box 8, Folder 13

Russell, Sara 1997

Box 8, Folder 14

R miscellaneous**Scope and Content Note**

Raffalli, Gaëlle 1997
 Rafter, T. A. 1978
 Rakestraw, Norris W. 1963, 1992
 Ramesh 1986
 Ramsay, Bertrand O. 1981
 Randolph, Laura J. 1979
 Ransom, Jay Ellis 1976
 Reaves, Christopher 1983
 Reed, George W. 1977
 Reesman, Richard 1960
 Reidel Publishing Company 1984
 Reiss, Z. 1978
 Remington, Edward W. 1958
 Revalle, Roger 1959
 Rex, Robert 1956
 Richards, Arthur 1957
 Rigby, Keith J. 1985
 Rigsby, George P. 1958
 Ringwood 1979
 Riley, Allen N. 1957
 Robert, François 1996
 Robinson, Brian 1978
 Robinson, Bruce, Jr. 1968
 Roedder, Ed 1986
 Rona, Peter A. 1982
 Ronov, Alexander B. 1992
 Rouhi, Maureen A. 1997, 2000
 Rounick, Jim S. 1983
 Rowland, F. S. 1959
 Royal Society of Canada, The 1997
 Ruatta, Stephen A. 1982
 Rubey, William W. 1959
 Rubin, Meyer 1977
 Ruderman, Warren 1959
 Runcorn, Keith S. 1989
 Rundel, Philip W. 1986
 Ruth, Joseph 1983
 Rye, Robert O. 1967

Box 8, Folder 15

Sachs, Robert G. 1982

Box 8, Folder 16

Sagan, Carl 1982-1994

Box 8, Folder 17

Sangameshwar, S. R. 1978

Box 8, Folder 18

Savin, Samuel M. 1968-1986

Box 8, Folder 19

Schaefer, Vincent J. 1953, 1958, 1980

Box 8, Folder 20

Schidlowski, Manfred 1978, 1982

Box 8, Folder 21

Schimmelman, Arndt 1986-1987, 1999

Box 8, Folder 22

Schopf, J. William 1967-1968

Box 8, Folder 23

Schroeder, Gerald L. 1980-1982

Box 8, Folder 24

Schulman, Edmund 1954-1955

Box 8, Folder 25

Schwartz, Henry P. 1978-1994

Box 8, Folder 26

Schwartzman, David 1993

Box 8, Folder 27

Sears, Derek 1985-1986, 1997

Box 8, Folder 28

Shackleton, Nicholas 1988, 1993

Box 8, Folder 29

Sharp, Robert P. 1952-1954, 1957-1960, 1996

Box 8, Folder 30

Sheppard, Simon 1968, 1980-1981, 1992

Box 8, Folder 31

Shima, Masako 1990-1991

| | |
|------------------|--|
| Box 8, Folder 32 | Showers, William 1991 |
| Box 9, Folder 1 | Silver, Leon T. 1980-1981, 1994 |
| Box 9, Folder 2 | Silver, Raymond 1980 |
| Box 9, Folder 3 | Smith, Bruce N. 1967-1980 |
| Box 9, Folder 4 | Simmons, Gene 1970 |
| Box 9, Folder 5 | Solomon, Cleve undated |
| Box 9, Folder 6 | Spindel, William 1983 |
| Box 9, Folder 7 | Stehli, Francis G. 1957, 1960-1984 |
| Box 9, Folder 8 | Steinberg, Martin 1951, 1953 |
| Box 9, Folder 9 | Stewart, Brian 1991 |
| Box 9, Folder 10 | Stewart, John M. 1992-1993 |
| Box 9, Folder 11 | Stewart, Paul E. 1958 |
| Box 9, Folder 12 | Stolper, Edward M. 1985-1990, 1995 |
| Box 9, Folder 13 | Stone, John 1983-1991 |
| Box 9, Folder 14 | Suess, Hans 1960-1995 |
| Box 9, Folder 15 | Sugisaki, Ryunichi 1964-1967 |
| Box 9, Folder 16 | Suzuoki, Tetsuro 1967-1969, 1971-1974 |
| Box 9, Folder 17 | Swart, Peter K. 1985-1993 |
| Box 9, Folder 18 | Switsur, Roy 1994 |

Box 9, Folder 19

S miscellaneous**Scope and Content Note**

Sackmann, Juliana 1998
 Sakai, H. 1977
 Samuel, D. 1960
 Sanders, Robert 1997
 Santos, Roberto Ventura 1994
 Saunders, W. H. 1989
 Schaeffer, O. A. 1966
 Schenck, Hubert G. 1957
 Schidlowski, M. 1985
 Schiffman, Peter 1987
 Schink, David R. 1964
 Schmitt, Harrison H. 1973
 Schoeinger, Margaret 1983, 1986
 Schoell, M. 1978
 Schoepe, Adolf 1997
 Schroeder, Genny [?] undated
 Schramm, Vern L. 1999
 Schultz, Ludolf 1983
 Schwarcz, Henry P. 1964
Scientific American Magazine 1989
 Scott, R. undated
 S-Cubed company 1983
 Selo, Jean-Loïc 1994
 Sepkoski, John J. 1980
 Shackleton, N. J. 1985, undated
 Shapiro, Mark H. 1983
 Sharma, T. 1966, 1967
 Shaw, Denis M. 1958
 Sheppard, Simon M. F. 1967, 1979, 1992
 Shields, W. R. 1966
 Shoemaker, Eugene M. 1971, 1982
 Shukolyukov, Yu. A. undated
 Siever, Raymond 1959
 Silfer, Jeffrey A. 1992
 Simonoff, G. 1985
 Simons, Wilbur D. 1978
 Sivertsen, Barbara J. 1997
 Sieroty, Alan 1977
 Skinner, Brian J. 1977, 1978
 Silverman, Sol R. 1950, 1958
 Slattery, Michael W. 1993
 Slaughter, Bob H. 1978
 Smith, Allen H. 1968
 Smith, Bruce N. 1985
 Smith, John W. 1978
 Smith, Lewis R. I. 1978
 Smith, Patsy J. 1958, 1960
 Smith, Ruven S. 1958
 Snelling, Norman J. 1958
 Somayajulu, B. L. K. 1986
 Southern California Coastal Water Research Project 1979
 Society of Economic Paleontologists and Mineralogists (SEPM) 1981
 Spengler, Kenneth C. 1959
 Spire, Etienne 1958
 Springhorn, C. E. 1958
 Srivastava, Rajesh K. 1986, 1987
 Stites, James R. 1983

Strock, Lester W. 1977 10159-MS
 Sugimoto, Atsuko 1994
 Sugarman, Nathan undated
 Swain, Tony 1979
 Swedish Royal Academy of Sciences 1980, 1981
 Switzer, George 1954
 Szecsody, Jim 1983

Box 9, Folder 20
Box 9, Folder 21
Box 9, Folder 22
Box 9, Folder 23
Box 9, Folder 24
Box 9, Folder 25
Box 10, Folder 1
Box 10, Folder 2
Box 10, Folder 3
Box 10, Folder 4
Box 10, Folder 5
Box 10, Folder 6
Box 10, Folder 7
Box 10, Folder 8
Box 10, Folder 9
Box 10, Folder 10

Tanimoto, Toshiro 1988-1989
Tanouye, Mark Allen 1990
Tao, Faxiang 1996-1997
Taylor, Hugh P. 1956, 1961, 1989, 1993
Taylor, J. G. V. 1983
Terwilliger, Valery 1994
Thiemens, Mark 1983-1995
Thode, Harry 1952-1953, 1957-1958, 1963-1997
Thompson, Peter 1970, 1972-1978
Tiffney, Bruce H. 1990-1992
Tourtlot, Harry A. 1967
Tromp, Tracy (See also: Series 5, El Niño Research) 1998-1999
Turekian, Karl K. 1956, 1967, 1983-1995
Turner, Grenville 1979, 1981
Tyburczy, James A. 1986-2001
T miscellaneous

Scope and Content Note

Talwani, Manik 1977
Tatsumoto, Mitsunobu 1984
Taylor, Bruce 1983
Taylor, Bruce E. 1986
Taylor, Richard P. 1982
Texaco 1976
Thomas, Lorna 1984
Thompson, William J. 1958
Thomson, W. W. 1949, 1962
Tilles, David 1956
Tilton, George R. 1957, undated
Tombrello, Tom 1986
Tomlinson, R. H. 1959
Tongiorgi, Ezio 1965
Toohey, Terrence J. 1977
Torgersen, Thomas 1979
Town Hall of California 1967
Tredoux, Marian 1996
Tribuna Magazine (Romania)1967
Trimborn, P. 1979
Tsai, Yi-Ben 1982
Tudor, D. S. 1981
Turner, Sandra Muhleman 1984
Twiddy, Edward 1993

Box 10, Folder 11
Box 10, Folder 12
Box 10, Folder 13

University of Manitoba 1966, 1969, 1996
Urey, Harold C. 1947, 1951-1954, 1963-1981
Unidentified correspondence 1955-1995

Box 10, Folder 14

U miscellaneous

Scope and Content Note

University of Arizona, The 1977
University of California, Berkeley 1978, 1979
University of California, Los Angeles 1977
University of California, Riverside 1979
University of California, Santa Barbara 1979
University of Minnesota, Twin Cities 1981
United States Department of Agriculture 1977
United States Department of Commerce 1978, 1980
United States Department of the Interior, Bureau of Land Management 1979
United States Department of the Interior, Geological Survey 1978, 1980, 1985
United States Department of the Interior, National Park Service 1979

Box 11, Folder 1

Box 11, Folder 2

Box 11, Folder 3

Vernadsky, V. I. 1983-1984, 1988

Volborth, A. 1967-1968, 1985-1986

V miscellaneous

Scope and Content Note

Valentine, James W. 1959
Valenzuela, Katherine 1993
Vali, Muntaz S. S. S. 1996
Valee, I. 1974
Valley, John W. 1986
van der Rijst, Henk 1983
Van Cappellen, Philippe 1990
Van Hook, Alexander 1976, 1984
Veizer, Ján 1983, 1984
Velsko, Carol 1984
Vickers, William W. 1959, 1960
Viehbock, F. 1966
Visbeck, Martin 1998
Visser, W. 1979
Viswanath, K. 1979
Vogt, Rochus 1984, undated
Volkoff, G. M. 1978
Vries, Hessel de 1959
Vurgachu [?] 1979

Box 11, Folder 4

Box 11, Folder 5

Box 11, Folder 6

Box 11, Folder 7

Box 11, Folder 8

Box 11, Folder 9

Box 11, Folder 10

Box 11, Folder 11

Box 11, Folder 12

Box 11, Folder 13

Box 11, Folder 14

Box 11, Folder 15

Box 11, Folder 16

Wager, L. R. 1958-1959, 1961

Walgren, Doug 1983-1984

Walker, Paul T. 1958-1959

Wang, Jianhua 1994

Wanless, R. K. 1950, 1959

Wasserburg, G. J. 1955, 1958, 1979

Weiner, Steve 1980, 1984, 1993-1994

White, Donald E. 1957, 1959, 1977

White, James W. C. 1979, 1987

Wilson, A. T. 1971, 1976-1977

Wind River Canopy Crane 1994-1996

Wong, William W. 1984, 1986-1987

Wyllie, Peter J. 1983-1985, 1986-1986, 1993

Box 11, Folder 17

W miscellaneous

Scope and Content Note

Wager, Bill 1958, 1961
Walker, Robert M. 1984
Walker, Jerome 1983
Wang, C. G. 1976
Wasson, John 1978
Watson, Janet 1983
Waters, A. C. 1958
Watkins, Carolyn 1973
Webb, John 1981
Webers, Jon 1966
Wei, Kuo-Yen undated
Weinberg, Steven 1979
Weiser, Judith 1953
Weiss, Ray Franklin 1964
Welinstein, Sheila 1980
Welker, Douglas 1977
Wen, Jun-Shan 1988
Went 1959
Westphal, Michael I. 1996
Weton, Ralph 1959
Wetherill, George W. 1962
Wetzel, K. 1983
Wexler, Harry 1957
Wickman, Frans E. 1966
Wiesner, Jerome 1965
Wigley, T. M. L. 1988
Winkler, Helmut G. F. 1963
Williams, Darcy 1977
Williams, Milton 1958, 1959, 1960
Wiley & Sons, Inc. 1957
Wilson, H. D. B. 1956
Wilson, John 1993
Wilson, Mark R. 1987
Wilson, Richard 1992
Winchester, John W. 1958
Winkler, Carl A. 1978
Wolman, Gordon 1983
Wolfsberg, Max 1972
Wones, David R. 1979
Woods Hole Oceanographic Institution 1980
Woodcock, A. H. 1956, 1967
Wright, Judith 1984
Wyatt, Durham J. 1952

Box 11, Folder 18
Box 11, Folder 19
Box 11, Folder 20
Box 11, Folder 21
Box 11, Folder 22

Xu, Xiaomei 1993-1997

Yang, Jongmann 1984-1997

Yankwich, Peter E. 1958-1960

Yapp, Crayton J. 1973-1994

Yeh, Hsueh Wen 1973-1993

Box 11, Folder 23

Y miscellaneous

Scope and Content Note

Yaffe, Mark 1997
Yager, Donald E. undated
Yang, Changshu 1989
Yanshin, A. L. 1988
Yoshiba, Gary T. 1987
Young, Francis A. 1959

Box 11, Folder 24

Zanconato, Stefanie 1991

Box 11, Folder 25

Zeiri, Leila 1984-1992

Box 11, Folder 26

Zheng, Leping 1997

Box 11, Folder 27

Zinner, Ernst 1984-1987

Box 11, Folder 28

Z miscellaneous

Scope and Content Note

Zach, Manny 1997
Zachariasen, W. H. 1959
Zeller, Edward J. 1954
Zemann, Josef 1980
Zenger, Donald 1985
Zheng, Cheng-hua 1994
Zhou, Xinhua 1984
Zinner, Ernst Kunibert 1996
Zweig, George 1984
Zyakun, Anatoly 1999

Series 2. **California Institute of Technology**

Subseries 1. **Teaching**

Box 12, Folder 1

Ge 30 [Geology 30]: Problems sets 1962, 1964-1965

Box 12, Folder 2

Ge 30: Exams 1958-1962

Box 12, Folder 3

Ge 104: Class notes 1956

Box 12, Folder 4

Ge 104: Class schedules 1955-1956

Box 12, Folder 5

Ge 104: Exams 1955-1956

Box 12, Folder 6

Ge 104: Problems sets 1954-1955

Box 12, Folder 7

Ge 130: Exams 1964-1974, 1976-1979, 1981-1982, 1984-1987

Box 12, Folder 8

Ge 130: Problems sets 1960, 1970, 1972-1974, 1979, 1984-1987

Box 12, Folder 9

Ge 130: "The isotope," solutions to problems by Steven J. Lombard undated

Box 12, Folder 10

Ge 130: Reading lists 1985

Box 12, Folder 11

Ge 130: Lecture notes 1973

Box 12, Folder 12

Ge 137: Experiments undated

Box 12, Folder 13

Ge 140: Problems sets 1987, 1989

Box 12, Folder 14

Ge 140: Exams 1985-1986, 1990

Box 12, Folder 15

Ge 140: Reading lists undated

Box 12, Folder 16

Ge 150: Class schedules 1954-1958

Box 12, Folder 17

Ge 151: Class schedules 1952

Box 12, Folder 18

Ge 211: Problems sets undated

Box 12, Folder 19

Ge 211: Course outline and bibliography list 1950

Box 12, Folder 20

Ge 211: Exams 1956, 1958-1963

Box 12, Folder 21

Ge 211: Lab exercises 1957-1958

Box 12, Folder 22

Ge 211: Lecture notes 1957

Box 13, Folder 1

Ge 212: Exams undated

Box 13, Folder 2

Ge 212: Problems sets 1973, 1975

Box 13, Folder 3

Ge 213: Seminar reading list undated

Box 13, Folder 4

Ge 229: Reference list undated

Subseries 1. Teaching

Box 13, Folder 5 **Ge 229: Class notes 1953**
Box 13, Folder 6 **Mass spectrometry lecture notes undated**
Box 13, Folder 7 **Physical chemistry lecture notes. 1975**
 Note
 Original handwritten text.

Box 13, Folder 8 **Physical chemistry lecture notes. 1975**
 Note
 Typed text.

Box 13, Folder 9 **Miscellaneous lecture notes 1968**

Subseries 2. **Students**

Box 14, Folder 1 **Undergraduate advisees 1967-1968**
Box 14, Folder 2 **Graduate advisees 1967-1968, 1972**
Box 14, Folder 3 **Post-doctoral candidates 1958-1968, 1970**
Box 14, Folder 4 **Students qualifying exams 1957-1960, 1963, 1966, 1968-1969**

Subseries 3. **Division of Geological and Planetary Sciences**

Box 14, Folder 5 **Division brochures 1971-1973**
Box 14, Folder 6 **Geochemistry curriculum 1981, 1984**
Box 14, Folder 7 **Division appointments 1962, 1971-1972, 1980**
 Note
 Closed file.

Box 14, Folder 8 **North Mudd rehabilitation project 1999**
Box 14, Folder 9 **Division general correspondence 1959, 1967-1970**

Subseries 4. **Committees**

Caltech Faculty Committees
Box 15, Folder 1 **Academic Policies Committee 1959-1960, 1967-1972**
Box 15, Folder 2 **Radiation Safety Committee 1962-1968**
Box 15, Folder 3 **Nominating Committee 1969**
Box 15, Folder 4 **Selective Service Committee 1969**
Box 15, Folder 5 **Lauritsen Memorial Lecture Committee 1977-1982**
Box 15, Folder 6 **Committee on Relations With the Community 1982-1984**
Box 15, Folder 7 **Committee on Academic Freedom and Tenure 1984-1987**
 Note
 Closed file.

Box 15, Folder 8 **Committee on Institute Programs 1989-1990, 1995-1997**
Box 15, Folder 9 **C. C. Patterson Symposium Committee 1992-1993**
 Geology Division Committees
Box 15, Folder 10 **Petrology Search Committee 1978-1979**

Note
 Closed file.

Box 15, Folder 11 **Geobiology Advisory Committee: Correspondence 1979-1981**
 Note
 Closed file.

| | |
|-------------------|---|
| Box 15, Folder 12 | Geobiology Advisory Committee: Reports 1980-1981 Note Closed file. |
| Box 15, Folder 13 | Geobiology Advisory Committee: Geobiology discussion at the Frank Capra Ranch 1977, Aug 6 Note Closed file. |
| Box 15, Folder 14 | Post Doctoral Fellowship Committee Post Doctoral Fellowship Committee 1993 Note Closed file. |

Subseries 5. **Reviews**

| | |
|-------------------|--|
| Box 16, Folder 1 | Manuscript reviews 1960, 1965, 1968 |
| Box 16, Folder 2 | Manuscript reviews 1975-1976 |
| Box 16, Folder 3 | Manuscript reviews 1977 |
| Box 16, Folder 4 | Manuscript reviews 1978 |
| Box 16, Folder 5 | Manuscript reviews 1979 |
| Box 16, Folder 6 | Manuscript reviews 1980-1981 |
| Box 16, Folder 7 | Manuscript reviews 1983-1984 |
| Box 16, Folder 8 | Manuscript reviews 1993-1994 |
| Box 16, Folder 9 | Manuscript reviews 1995-1996 |
| Box 16, Folder 10 | Manuscript reviews 1997-1998 |
| Box 16, Folder 11 | Manuscript reviews 1999 |
| Box 16, Folder 12 | Proposal reviews 1975-1976 |
| Box 16, Folder 13 | Proposal reviews 1977-1978 |
| Box 16, Folder 14 | Proposal reviews 1979-1981 |
| Box 16, Folder 15 | Proposal reviews 1985 |
| Box 16, Folder 16 | Proposal reviews 1990-1991 |
| Box 16, Folder 17 | Proposal reviews 1992-1993 |
| Box 16, Folder 18 | Proposal reviews 1994-1995 |
| Box 16, Folder 19 | Proposal reviews 1996-1997 |
| Box 16, Folder 20 | Proposal reviews 1998-1999 |

Series 3. **Manuscripts, Preprints and Reprints**

Subseries 1. **Manuscripts**

| | |
|-------------------|--|
| Box 17, Folder 1 | The oxygen isotope analysis of atmospheric water 1958 |
| Box 17, Folder 2 | A search for isotopic variations in some terrestrial and meteoritic calcium 1963 |
| Box 17, Folder 3 | [Origin of the continents] probably 1965 |
| Box 17, Folder 4 | Geochemical implications of oxygen and hydrogen isotope fluctuation in hot spring water, fumarolic condensate and fluid inclusions 1966 |
| Box 17, Folder 5 | Hydrogen isotopic evidence on the nature of interlayer water in clays 1969 |
| Box 17, Folder 6 | D/H ratios for classes of compounds isolated from potato tube 1970 |
| Box 17, Folder 7 | Trace element analysis (cadmium) 1972 |
| Box 17, Folder 8 | The D/H ratio in water extracted from hydrous silica 1973 |
| Box 17, Folder 9 | The corrected oxygen isotope carbonate-water paleotemperature scale 1975 |
| Box 17, Folder 10 | Oxygen isotope ratios of sedimentary iron oxides 1976 |
| Box 17, Folder 11 | Degradability and carbon isotopic changes of primary effluent particulate organic carbon discharged to marine waters 1977 |

Subseries 1. Manuscripts

| | |
|-------------------|--|
| Box 17, Folder 12 | Variations in the isotopic compositions of CO₂ and of hydrogen in H₂O vapor in an urban atmosphere 1977 |
| Box 17, Folder 13 | Evaluation of methods for determining D/H ratios of carbon-bound hydrogen atoms of cellulose 1978 |
| Box 17, Folder 14 | On the origin of stratified debris in ice cores from the bottom of the Antarctic ice sheet 1978 |
| Box 17, Folder 15 | Isotopic fractionation during carbon dioxide reduction by methanogens: biochemical and geochemical implications 1980 |
| Box 17, Folder 16 | [Ocean basalts] 1980 |
| Box 17, Folder 17 | The concentration and isotopic composition of hydrogen, carbon and nitrogen in carbonaceous meteorites 1982 |
| Box 17, Folder 18 | Kinetic isotope effects during the evaporation of water 1982 |
| Box 17, Folder 19 | Changes in breath ¹³C/ ¹²C consequent to exercise and hypoxia 1988 |
| Box 17, Folder 20 | Oral ¹³C-bicarbonate measurement of CO₂ and dynamics in children and adults 1988 |
| Box 17, Folder 21 | Influence of increased metabolic rate on ¹³C-bicarbonate washout kinetics 1990 |
| Box 17, Folder 22 | Oxygen isotopic fractionation: In vivo and isolated lung studies 1990 |
| Box 17, Folder 23 | Stable carbon isotopic analysis of marine sediments impacted by sewage discharge 1990 |
| Box 17, Folder 24 | The climatic record for the past 10,000 years 1997 |

Subseries 2. Preprints

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|-------------------|---|
| Box 18, Folder 1 | Paleotemperatures of the post aptian, cretaceous as determined by the oxygen isotope method 1953 |
| Box 18, Folder 2 | Carbon, hydrogen and nitrogen isotope in solvent-extractable organic matter from carbonaceous chondrites 1980, 1981 |
| Box 18, Folder 3 | Carbon isotope ratios in some low $\delta^{15}\text{N}$ lunar breccias 1981 |
| Box 18, Folder 4 | Hydrogen and carbon isotopes of petroleum and related organic matters 1981 |
| Box 18, Folder 5 | Palaeoclimatic significance of D/H ratios in tree rings from the Southern Hemisphere 1981 |
| Box 18, Folder 6 | Silicon and oxygen isotopes in selected Allende inclusions 1981 |
| Box 18, Folder 7 | The hydrogen isotope fractionation between kaolinite and water 1984 |
| Box 18, Folder 8 | Relic interstellar grains in Murchison meteorite 1984 |
| Box 18, Folder 9 | A study of hydrogen and carbon isotopes in Shergotty meteorite 1985 |
| Box 18, Folder 10 | The implication of the oxygen isotope records in coexisting cherts and phosphates 1986 |
| Box 18, Folder 11 | Unusual isotopic compositions of hydrogen, nitrogen and carbon of amino acids 1986 |
| Box 18, Folder 12 | The effect of the isotopic composition of oxygen on the non-mass isotopic fractionation in the formation of ozone by discharge of O₂ 1987 |
| Box 18, Folder 13 | The effect of pressure and excitation energy on the isotopic fractionation in the formation of ozone by discharge of O₂ 1987 |
| Box 18, Folder 14 | Exotic silicon in the Orgueil and Murchison meteorites 1990 |
| Box 18, Folder 15 | The role of stable isotopes in geochemistries of all kind 1996 |

Subseries 3. Reprints

| | |
|------------------|---|
| Box 19, Folder 1 | The density of selenium 1942 |
| Box 19, Folder 2 | The isotopic composition of normal krypton and xenon 1947 |
| Box 19, Folder 3 | Improvements in mass spectrometers for the measurement of small differences in isotope abundance ratios 1950 |
| Box 19, Folder 4 | Studies on RDX and related compounds 1951 |
| | Note |
| | Photocopy. |
| Box 19, Folder 5 | Carbonate-water isotopic temperature scale 1951 |

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|-------------------|--|
| Box 19, Folder 6 | Measurement of paleotemperatures and temperatures of the upper cretaceous of England, Denmark, and the southeastern United States 1951 |
| Box 19, Folder 7 | Studies on RDX and related compounds 1952 Note Photocopy. |
| Box 19, Folder 8 | A mass spectrometer for the measurement of small differences in isotope abundance ratios 1953 |
| Box 19, Folder 9 | Temperature variations in the Lower Pleistocene of Southern California 1953 Note Two copies, one signed by co-author C. Emiliani |
| Box 19, Folder 10 | Temperature-shell-growth relations of recent and interglacial Pleistocene shoal-water biota from Bermuda 1953 |
| Box 19, Folder 11 | Revised carbonate-water isotopic temperature scale 1953 |
| Box 19, Folder 12 | Variation of O 18 content of waters from natural sources 1953 |
| Box 19, Folder 13 | Paleotemperatures of the post-Aptian Cretaceous as determined by the oxygen isotope method 1954 |
| Box 19, Folder 14 | Variations of the O 18/O 16 ratios of fresh water and ice 1956 |
| Box 19, Folder 15 | On the origin of sedimentary aragonite needles of the Great Bahama Bank 1957 |
| Box 19, Folder 16 | Carbon isotopic compositions of petroleums and other sedimentary organic materials 1958 |
| Box 19, Folder 17 | The relationship between O 18/O 16 ratios in coexisting quartz, carbonate and iron oxides from various geological deposits 1958 |
| Box 19, Folder 18 | Variations in isotopic compositions of oxygen and carbon in Leadville limestone (Mississippian, Colorado) and in its hydrothermal and metamorphic phases 1958 |
| Box 19, Folder 19 | Oxygen-isotope ratios and glacier movement 1958 |
| Box 19, Folder 20 | The oxidation of carbon monoxide by fertilized eggs of Urechis Caupo shown by use of a C 13 label 1958 |
| Box 19, Folder 21 | Oxygen-isotope variations in the Malaspina and Saskatchewan glaciers 1959 |
| Box 19, Folder 22 | The variations of the O 18/O 16 ratio in nature and some geologic implications 1959 Note Photocopy. |
| Box 19, Folder 23 | Cretaceous paleo-temperatures as determined by the oxygen isotope method, their relations to and the nature of rudistid reefs 1959 |
| Box 19, Folder 24 | Oxygen isotope studies 1959 |
| Box 19, Folder 25 | Oxygen-isotope ratios in the Blue Glacier, Olympic Mountains, Washington, USA 1960 |
| Box 19, Folder 26 | Carbon isotope fractionation during photosynthesis 1960 |
| Box 19, Folder 27 | Metabolic fractionation of C 13 and C 12 in plants 1961 |
| Box 19, Folder 28 | The use of oxygen isotopes in high-temperature geological thermometry 1961 |
| Box 19, Folder 29 | Comments on annual rates of accumulation in West Antarctica 1962 |
| Box 19, Folder 30 | Relationship between O 18/O 16 ratios in coexisting carbonates, cherts, and diatomites 1962 |
| Box 19, Folder 31 | Relationship between O 18/O 16 ratios in coexisting minerals of igneous and metamorphic rocks: Part 1 1962 |
| Box 19, Folder 32 | Relationship between O 18/O 16 ratios in coexisting minerals of igneous and metamorphic rocks: Part 2 1962 |
| Box 19, Folder 33 | Oxygen isotope studies on the origin of tektites 1962 |
| Box 19, Folder 34 | O 18/O 16 ratios in rocks and coexisting minerals of the Skaergaard intrusion, East Greenland 1963 |
| Box 19, Folder 35 | O 18/O 16 ratios of coexisting minerals in three assemblages of kyanite-zone pelitic schist 1963 |
| Box 19, Folder 36 | Oxygen-isotope ratios in Antarctic snow, firn, and ice 1963 |
| Box 19, Folder 37 | Oxygen isotope studies on the origin of dolomites 1963 |

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| Box 19, Folder 38 | Comparison of oxygen isotope analyses of tektites, soils, and impactite glasses 1963 |
| Box 19, Folder 39 | Oxygen and carbon isotope ratios in coexisting calcites and dolomites from recent and ancient sediments 1964 |
| Box 19, Folder 40 | Die isotopenzusammensetzung von natürlichem calcium 1964 Note Photocopy. |
| Box 19, Folder 41 | Oxygen isotope studies of minerals in stony meteorites 1965 |
| Box 19, Folder 42 | O 18/O 16 ratios of some chondritic meteorites and terrestrial ultramafic rocks 1965 |
| Box 19, Folder 43 | Six-year record of oxygen and hydrogen isotope variations in South Pole firn 1965 |
| Box 19, Folder 44 | Oxygen isotope fractionation in the system dolomite-calcite-carbon dioxide 1966 |
| Box 19, Folder 45 | A method for oxygen isotope analysis of milligram quantities of water and some of its applications 1966 |
| Box 19, Folder 46 | Oxygen isotope studies of Ivory Coast tektites and impactite glass from the Bosumtwi Crater, Ghana 1966 |
| Box 19, Folder 47 | The isotopic composition of oxygen and carbon in hydrothermal minerals at Butte, Montana 1966 |
| Box 19, Folder 48 | Oxygen isotope ratios in coexisting minerals of regionally metamorphosed rocks 1967 |
| Box 19, Folder 49 | Variations of the O 18/O 16 in minerals and rocks 1967 |
| Box 19, Folder 50 | Oxygen and hydrogen isotope variations in a firn core, Eight Station, Western Antarctica 1967 |
| Box 19, Folder 51 | The stable isotopes 1967 Note Photocopy. |
| Box 19, Folder 52 | O 18/O 16 ratios of minerals from migmatites, rapakivi granites and orbicular rocks 1969 |
| Box 19, Folder 53 | Correlations between O 18/O 16 ratios and chemical compositions of tektites 1969 |
| Box 20, Folder 1 | 18O/ 16O, 30Si/ 28Si, D/H, and 13C/ 12C studies of lunar rocks and minerals 1970 |
| Box 20, Folder 2 | The oxygen and hydrogen isotope geochemistry of clay minerals 1970 |
| Box 20, Folder 3 | The oxygen and hydrogen isotope geochemistry of ocean sediments and shales 1970 |
| Box 20, Folder 4 | The concentration and isotopic composition of hydrogen, carbon and silicon in Apollo 11 lunar rocks and minerals 1970 |
| Box 20, Folder 5 | O 18/O 16 ratios of Apollo 11 lunar rocks and minerals 1970 |
| Box 20, Folder 6 | The prevalence of carbon-13 in respiratory carbon dioxide as an indicator of the type of endogenous substrate 1970 |
| Box 20, Folder 7 | The oxygen isotope compositions of coarse grained sedimentary rocks and minerals 1970 |
| Box 20, Folder 8 | Distribution of carbon isotopes and their biochemical and geochemical significance 1970 |
| Box 20, Folder 9 | Antarctic Ice Sheet: stable isotope analyses of Byrd Station cores and interhemispheric climatic implications 1970 |
| Box 20, Folder 10 | Late Pleistocene diagenesis and dolomitization, North Jamaica 1970 |
| Box 20, Folder 11 | D/H and 18O/ 16O ratios of minerals of possible mantle or lower crustal origin 1970 |
| Box 20, Folder 12 | Oxygen and silicon isotope ratios of lunar rock 12013 1970 |
| Box 20, Folder 13 | Biogeochemistry of the stable isotopes of hydrogen and carbon in salt marsh biota 1970 Note Photocopy. |
| Box 20, Folder 14 | Cyanide-induced transition from endogenous carbohydrate to lipid oxidation as indicated by the carbon-13 content of respiratory CO 2 1970 |

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| Box 20, Folder 15 | Two categories of 13C/ 12C ratios for higher plants 1971 |
| Box 20, Folder 16 | O 18/O 16, Si 30/Si 28, D/H, and C 13/C 12 ratios in lunar samples 1971 |
| Box 20, Folder 17 | Geologic thermometry 1971 |
| Box 20, Folder 18 | O 18/O 16, Si 30/Si 28, C 13/C 12, and D/H studies of Apollo 14 and 15 samples 1972 |
| Box 20, Folder 19 | On the use of stable isotopes to trace the origins of ice in a floating ice tongue 1972 |
| Box 20, Folder 20 | O 18/O 16, Si 30/Si 28, C 13/C 12, and D/H studies of Apollo 16 lunar samples 1973 |
| | Note |
| | Photocopy. |
| Box 20, Folder 21 | The isotopic composition and concentration of water, hydrogen and carbon in some Apollo 15 and 16 soils and in the Apollo 17 orange soil 1973 |
| Box 20, Folder 22 | O 18/O 16 and Si 30/Si 28 studies of some Apollo 15, 16, and 17 samples 1973 |
| Box 20, Folder 23 | Oxygen and silicon isotope ratios of the Luna 20 soil 1973 |
| Box 20, Folder 24 | O 18/O 16, Si 30/Si 28, C 13/C 12, D/H and hydrogen and carbon concentration data on Apollo 17 soils 1973 |
| Box 20, Folder 25 | Climatological implications of stable isotope variations in deep ice cores from Byrd Station, Antarctica 1973 |
| Box 20, Folder 26 | Variations in the isotopic compositions of C and O in CO 2 and H in H 2O vapor in an urban atmosphere 1974 |
| | Note |
| | Photocopy. |
| Box 20, Folder 27 | Oxygen, silicon, carbon, and hydrogen isotope fractionation processes in lunar surface materials 1974 |
| Box 20, Folder 28 | D/H and 18O/ 16O ratios of H 2O in the "rusty" breccia 66095 and the origin of "lunar water" 1974 |
| Box 20, Folder 29 | Environmental impact of cadmium: a review by the panel on hazardous trace substances 1974 |
| Box 20, Folder 30 | Carbon, hydrogen, oxygen, and silicon isotope relationships in the lunar regolith 1975 |
| | Note |
| | Photocopy. |
| Box 20, Folder 31 | Hydrogen and oxygen isotope ratios in silica from the JOIDES Deep Sea Drilling Project 1975 |
| Box 20, Folder 32 | Investigation of the carbon, hydrogen, oxygen, and silicon isotope and concentration relationships on the grain surfaces of a variety of lunar soils and in some Apollo 15 and 16 core samples 1975 |
| Box 20, Folder 33 | Revised value for the O 18 fractionation between CO 2 and H 2O at 25°C 1975 |
| Box 20, Folder 34 | Climatic implications of the D/H ratio of hydrogen in C-H groups in tree cellulose 1976 |
| Box 20, Folder 35 | The determination of the D/H ratio of non-exchangeable hydrogen in cellulose extracted from aquatic and land plants 1976 |
| Box 20, Folder 36 | Hydrogen isotope fractionation between OH-bearing minerals and water 1976 |
| Box 20, Folder 37 | Hydrogen and oxygen isotope ratios in nodular and bedded cherts 1976 |
| Box 20, Folder 38 | Stable isotope geochemistry of deep sea cherts 1976 |
| Box 20, Folder 39 | Mechanism of carbon isotope fractionation associated with lipid synthesis 1977 |
| Box 20, Folder 40 | Hydrogen isotope exchange between clay minerals and sea water 1977 |
| Box 20, Folder 41 | Isotope tree thermometers 1977 |
| Box 20, Folder 42 | Oxygen and hydrogen isotopic ratios in plant cellulose 1977 |
| Box 20, Folder 43 | Ca isotope fractionation on the moon 1977 |
| Box 20, Folder 44 | The δ 18O, δ 17O, δ 30Si and δ 29Si of oxygen and silicon in stony meteorites and Allende inclusions 1977 |
| Box 20, Folder 45 | Climatic implications of the D/H ratio of meteoric water over North America (9500-22,000 B.P.) as inferred from ancient wood cellulose C-H hydrogen 1977 |

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| Box 20, Folder 46 | The D/H ratio of cellulose in a New Zealand <i>Pinus Radiata</i>: a reply to the criticism of A. T. Wilson and M. J. Grinsted 1978 |
| Box 20, Folder 47 | Acceptance speeches: Award of the V. M. Goldschmidt and F. W. Clarke medals of the Geochemical Society 1978 |
| Box 20, Folder 48 | Influence of diet on the distribution of carbon isotopes in animals 1978 |
| Box 20, Folder 49 | Carbon isotopic evidence for different feeding patterns in two hyrax species occupying the same habitat 1978 |
| Box 20, Folder 50 | Dietary analysis from $^{13}\text{C}/^{12}\text{C}$ ratios of carbonate and collagen fractions of bone 1978 |
| Box 20, Folder 51 | $^{29}\text{Si}/^{28}\text{Si}$ and $^{30}\text{Si}/^{28}\text{Si}$ of meteorites and Allende inclusions 1978 |
| Box 20, Folder 52 | Isotopic fractionation of silicon in Allende inclusions 1978 |
| Box 20, Folder 53 | Relationship between the oxygen isotope ratios of terrestrial plant cellulose, carbon dioxide, and water 1979 |
| Box 20, Folder 54 | Introduction of Gerald J. Wasserburg for the V. M. Goldschmidt Medal 1978 1979 |
| Box 20, Folder 55 | Oxygen isotopic fractionation between oxygen of different sites in hydroxyl-bearing silicate minerals 1980 |
| Box 20, Folder 56 | Stable isotope investigations of an active geothermal system in Valles Caldera, Jemez Mountains, New Mexico 1980 |
| Box 20, Folder 57 | The $\delta^{18}\text{O}$ and $\delta^{17}\text{O}$ values in reactions involving excited oxygen molecules by measuring CO_2 mass spectrometrically 1980 |
| Box 20, Folder 58 | Hydrothermal quartz vug from the Mid-Atlantic Ridge 1980 |
| Box 20, Folder 59 | Hydrogen, carbon and nitrogen isotopes in organic extracts and HF-treated residues of the Murchison and Murray meteorites 1980 |
| Box 20, Folder 60 | Influence of diet on the distribution of nitrogen isotopes in animals 1981 |
| Box 20, Folder 61 | Hydrogen and carbon isotopes of petroleum and related organic matter 1981 |
| Box 20, Folder 62 | Isotopic composition of cellulose from aquatic organisms 1981 |
| Box 20, Folder 63 | Hydrogen and carbon isotopic ratios of the cellulose nitrate and saponifiable lipid fractions prepared from annual growth rings of a California redwood 1981 |
| Box 20, Folder 64 | Carbon isotopic ratios in some low-$\delta^{15}\text{N}$ lunar breccias 1981 |
| Box 20, Folder 65 | Silicon and oxygen isotopes in selected Allende inclusions 1981 |
| Box 20, Folder 66 | Hydrogen isotope ratios of mouse tissues are influenced by a variety of factors other than diet 1981 |
| | Note |
| | Photocopy. |
| Box 20, Folder 67 | The concentration and isotopic composition of hydrogen and carbon in meteorites 1982 |
| Box 20, Folder 68 | The $\delta^{18}\text{O}$ of the sanidine spherules at the Cretaceous-Tertiary boundary 1982 |
| Box 20, Folder 69 | The concentration and isotopic composition of hydrogen, carbon and nitrogen in carbonaceous meteorites 1982 |
| Box 20, Folder 70 | Carbon, hydrogen and nitrogen isotopes in solvent-extractable organic matter from carbonaceous chondrites 1982 |
| Box 20, Folder 71 | A reexamination of cellulose carbon-bound hydrogen δD measurements and some factors affecting plant-water D/H relationships 1982 |
| Box 20, Folder 72 | Correlated radon and CO_2 variations near the San Andreas fault 1982 |
| Box 20, Folder 73 | The nature of water in hydrous silica 1982 |
| Box 20, Folder 74 | Climatic significance of the hydrogen isotope ratios in tree cellulose 1982 |
| Box 20, Folder 75 | Shock-induced devolatilization of calcite 1982 |
| Box 21, Folder 1 | Methanogenic bacteria from the Bondyuzhskoe oil field: General characterization and analysis of stable-carbon isotopic fractionation 1983 |
| Box 21, Folder 2 | Interstellar organic matter in meteorites 1983 |
| Box 21, Folder 3 | The relevance of hydrogen for the origin of meteorites 1983 |
| Box 21, Folder 4 | The hydrogen isotope fractionation between kaolinite and water 1984 |
| Box 21, Folder 5 | Relic interstellar grains in Murchison meteorite 1984 |
| Box 21, Folder 6 | On the origin of terpenes in symbiotic associations between marine invertebrates and algae (zooxanthellae) 1984 |
| Box 21, Folder 7 | A search for presolar organic matter in meteorite 1985 |

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| Box 21, Folder 8 | Seasonal contributions to the climatic variations recorded in tree ring deuterium/hydrogen data 1985 |
| Box 21, Folder 9 | Tree ring D/H ratio from Kenya, East Africa and its palaeoclimatic significance 1985 |
| Box 21, Folder 10 | The implication of oxygen isotope records in coexisting cherts and phosphates 1986 |
| Box 21, Folder 11 | Measurement of water in rhyolitic glasses: calibration of an infrared spectroscopic technique 1986 |
| Box 21, Folder 12 | Unusual stable isotope ratios in amino acid and carboxylic acid extracts from the Murchison meteorite 1987 |
| Box 21, Folder 13 | The effect of the isotopic composition of oxygen on the non-mass-dependent isotopic fractionation in the formation of ozone by discharge of O₂ 1987 |
| Box 21, Folder 14 | The effect of pressure and excitation energy on the isotopic fractionation in the formation of ozone by discharge of O₂ 1987 |
| Box 21, Folder 15 | Heavy carbon in individual oxide grains from the Murchison meteorite 1987 |
| Box 21, Folder 16 | Noble gases in diamonds: occurrences of solarlike helium and neon 1987 |
| Box 21, Folder 17 | Oxygen and carbon isotopic compositions of gases respired by humans 1988 |
| Box 21, Folder 18 | S-process krypton of variable isotopic composition in the Murchison meteorite 1988 |
| Box 21, Folder 19 | Water, carbon dioxide, and hydrogen isotopes in glasses from the ca. 1340 A.D. eruption of the Mono Craters, California: constraints on degassing phenomena and initial volatile content 1988 |
| Box 21, Folder 20 | Determination of the concentration and stable isotopic composition of oxygen in organic matter containing carbon, hydrogen, oxygen, nitrogen, and sulfur 1989 |
| Box 21, Folder 21 | Hydrogen isotope fractionation between coexisting vapor and silicate glasses and melts at low pressure 1989 |
| Box 21, Folder 22 | Environmental information in the isotopic record in trees 1990 |
| Box 21, Folder 23 | A reply to E. C. Perry's comments 1990 |
| Box 21, Folder 24 | Glacial-interglacial excursion in the concentration of atmospheric CO₂: effect in the ¹³C/¹²C ratio in wood cellulose 1990 |
| Box 21, Folder 25 | Impact-induced devolatilization and hydrogen isotopic fractionation of serpentine: implications for planetary accretion 1990 |
| Box 21, Folder 26 | Isotopic and molecular analyses of hydrocarbons and monocarboxylic acids of the Murchison meteorite 1991 |
| Box 21, Folder 27 | An experimental study of oxygen isotope partitioning between silica glass and CO₂ vapor 1991 |
| Box 21, Folder 28 | Silicon, carbon, and nitrogen isotopic studies of silicon carbide in carbonaceous and enstatite chondrites 1991 |
| Box 21, Folder 29 | Isotopic composition of hydrogen in insoluble organic matter from cherts 1991 |
| Box 21, Folder 30 | Correlated Si isotope anomalies and large ¹³C enrichments in a family of exotic SiC grains 1991 |
| Box 21, Folder 31 | Implanted ³He, ⁴He, and Xe in further studies of diamonds from Western Australia 1991 |
| Box 21, Folder 32 | Isotopic and molecular analyses of hydrocarbons and monocarboxylic acids of the Murchison meteorite 1992 |
| Box 21, Folder 33 | Stable-isotope studies of rocks and secondary minerals in a vapor-dominated hydrothermal system at The Geysers, Sonoma County, California 1992 |
| Box 21, Folder 34 | Effect of increased metabolic rate on oxygen isotopic fractionation 1992 |
| Box 21, Folder 35 | Molecular and isotopic analyses of the hydroxy acids, dicarboxylic acids, and hydroxydicarboxylic acids of the Murchison meteorite 1993 |
| Box 21, Folder 36 | Determination of D/H ratios on nonexchangeable hydrogen in cellulose; a method based on the cellulose-water exchange reaction 1993 |
| Box 21, Folder 37 | Water on Mars: clues from deuterium/hydrogen and water contents of hydrous phases in SNC meteorites 1994 |
| Box 21, Folder 38 | Climatic implications of an 8000-year hydrogen isotope time series from bristlecone pine trees 1994 |
| Box 21, Folder 39 | Isotopic analyses of nitrogenous compounds from the Murchison meteorite: ammonia, amines, amino acids, and polar hydrocarbons 1994 |

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| Box 21, Folder 40 | Experimental study of 18O/ 16O partitioning between crystalline albite, albitic glass, and CO 2 gas 1994 |
| Box 21, Folder 41 | Climatic temperature records in 6D data from tree rings 1995 |
| Box 21, Folder 42 | Carbon isotopes of trees from arid environments and implications for reconstructing atmospheric CO 2 concentration 1995 |
| Box 21, Folder 43 | The isotopic climatic records in the Alleröd-Bølling-Younger Dryas and post-Younger Dryas events 1995 |
| Box 21, Folder 44 | Climatic trends from isotopic records of tree rings: the past 100-200 years 1995 |
| Box 21, Folder 45 | Hydrogen isotope geochemistry of SNC meteorites 1996 |
| Box 21, Folder 46 | The role of stable isotopes in geochemistries of all kinds 1997 |

Series 4. Talks, Conferences and Meetings

| | |
|-------------------|--|
| Box 22, Folder 1 | "The modified helium technique," Caltech Industrial Associates conference talk 1953 May 18 |
| Box 22, Folder 2 | "Variations in isotope abundances of O 18 in water samples ... ," Gordon Research Conference 1954 Aug 12 |
| Box 22, Folder 3 | "Behaviour of carbon in carbonate cycling and weathering," Caltech Industrial Associates conference talk 1955 May 16 |
| Box 22, Folder 4 | "Cretaceous paleo-temperatures as determined by the oxygen isotope method " Congreso Geológico Internacional, Mexico 1956 Sep |
| Box 22, Folder 5 | "Oxygen 18 studies on natural waters," Scripps Institution of Oceanography, La Jolla 1957 Feb |
| Box 22, Folder 6 | Conference on Cosmological and Geological Implications of Isotope Ratio Variations, Caltech 1957 Jun 15 |
| Box 22, Folder 7 | Talk at Caltech 1958 Mar 17 |
| Box 22, Folder 8 | "Isotope effects in geochemical processes," Gordon Research Conference, New Hampshire 1968 Jul 22 |
| Box 22, Folder 9 | "Stable isotope geochemistry," Caltech Industrial Associates conference talk 1970 Feb 17-18 |
| Box 22, Folder 10 | Meeting on hazardous trace substances 1970 Dec |
| Box 22, Folder 11 | "Isotopes, climate and ice ages," Caltech Lecture Series 1971 Apr 26 |
| Box 22, Folder 12 | "Solar wind and lunar atmosphere impregnation of luna fines" 1972 May |
| Box 22, Folder 13 | "The isotopic composition of oxygen, silicon, hydrogen and carbon in lunar samples," 24 th International Geological Congress, Canada 1972 Aug |
| Box 22, Folder 14 | Geology Club of University of California at Berkeley 1973 Mar 21 |
| Box 22, Folder 15 | "Isotope geology," Chevron Oil Field Research, La Habra 1973 Aug 01 |
| Box 22, Folder 16 | Caltech Industrial Associates Conference 1974 Mar 12 |
| Box 22, Folder 17 | [Climatic History of the Earth] California State University, Fullerton 1974 Oct 16 |
| Box 22, Folder 18 | "The climatic implications of the isotopic composition of water," Los Angeles Valley College 1974 Dec 03 |
| Box 22, Folder 19 | "The determination of the D/H ratio of non-exchangeable hydrogen ..." International Conference on Isotopes, New Zealand 1976 Aug |
| Box 22, Folder 20 | "Hot Precambrian climate and implications for the atmosphere," American Astronomical Society Annual meeting, Boston 1977 Oct |
| Box 22, Folder 21 | "Isotopes, tree rings and climate," American Chemical Society meeting 1977 Dec 14 |
| Box 22, Folder 22 | "Isotopes and tree rings," Caltech Lecture Series 1978 Jan 18 |
| Box 22, Folder 23 | Introduction of Gerald J. Wasserburg for the V. M. Goldschmidt Medal 1978 Oct |
| Box 22, Folder 24 | Chemistry seminar at California State University, Long Beach 1978 Nov 15 |
| Box 22, Folder 25 | Gordon Conference on the Chemistry and Physics of Isotopes 1979 Feb |
| Box 22, Folder 26 | Los Alamos Scientific Laboratory 1979 May 15 |
| Box 22, Folder 27 | "Potential of long term forecasting methods," Conference on Western Water Issues, Caltech 1979 May 17 |
| Box 22, Folder 28 | "The geochemistry of water and water isotopes as related to tree growth," Lamont Doherty Geological Observatory 1979 May 24 |
| Box 22, Folder 29 | Meeting of the NRC ad hoc committee on Abiogenic Methane 1979 Oct 8-9 |
| Box 22, Folder 30 | University of Alberta 1980 Mar 25 |
| Box 22, Folder 31 | "Climates, isotopes and trees," 43 th Annual Caltech Alumni Seminar 1980 May 17 |

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| Box 22, Folder 32 | "Stable isotopes in tree rings," "Stable isotopes in plant material," Bat Sheva seminar, Israel 1980 Oct 20-30 |
| Box 22, Folder 33 | Introduction of Clair C. Patterson for the V. M. Goldschmidt Medal 1980 Nov |
| Box 22, Folder 34 | Introduction of Henry G. Thode for the Arthur L. Day Medal 1980 Nov |
| Box 22, Folder 35 | Gordon Research Conference on Chemistry and Physics of Isotopes 1981 Feb |
| Box 22, Folder 36 | Geology Conference on the Role of Rock-Water Interactions, Caltech 1981 Apr 13 |
| Box 22, Folder 37 | "The origins of meteorites," Arizona State University 1981 Apr 10 |
| Box 22, Folder 38 | Presentation of Dr. Hugh Taylor for the Robert P. Sharp Professorship of Geology 1981 Nov 24 |
| Box 23, Folder 1 | "Climatic implications of the hydrogen and oxygen isotopic compositions in plants," Occidental Research Corporation 1982 Feb 02 |
| Box 23, Folder 2 | [Concentration and isotopic composition of H, C and N in meteorites] 1982 Apr 05 |
| Box 23, Folder 3 | "The concentration and isotopic composition of hydrogen and carbon in meteorites," 5 th International Conference on Geochronology, Cosmochronology and Isotope Geology, Japan 1982 Jun |
| Box 23, Folder 4 | Workshop on Isotope Geology, Taipei, China 1982 Jul |
| Box 23, Folder 5 | University of California, Berkeley 1982 Oct 13 |
| Box 23, Folder 6 | University of Utah 1982 |
| Box 23, Folder 7 | "Stable isotopes," Oak Ridge Associated Universities 1983 May |
| Box 23, Folder 8 | "Climatic implications of δD and $\delta^{18}O$ of cellulose in plants," 27 th International Geological Congress, Moscow, USSR 1984 Aug |
| Box 23, Folder 9 | "The isotopic composition of hydrogen in meteorite" 1984 Oct 15 |
| Box 23, Folder 10 | UCLA Lake Arrowhead Conference Center 1986 Apr |
| Box 23, Folder 11 | International Symposium, China 1988 Nov Epstein's 70 th birthday symposium See: Series 7, Epstein's 70 th Birthday Symposium program |
| Box 23, Folder 12 | "Climatic temperature records in the isotopic composition ... " Laboratory of Tree-Ring research, University of Arizona 1990 May 11 |
| Box 23, Folder 13 | "The concentration and isotopic composition of hydrogen in meteorite," 53 rd Annual Meeting of the Meteoritical Society, Perth, Australia 1990 Sep |
| Box 23, Folder 14 | Stanford University talk 1990 Nov 19 |
| Box 23, Folder 15 | "The D/H ratios in tree-cellulose and their implication to global warming," National Science Museum, Japan 1991 May |
| Box 23, Folder 16 | "Global warming," Los Alamos National Laboratory 1991 Dec |
| Box 23, Folder 17 | "Climatic information from isotopic composition of hydrogen and carbon in trees," Center for Global Change Science, Harvard University and MIT 1992 Oct 1-2 |
| Box 23, Folder 18 | "The oxygen isotopic fractionation associated with respiration," US Department of Energy 1993 Apr 28 |
| Box 23, Folder 19 | "Climatic temperature information in D/H ratios in trees" 1993 Jun 13 |
| Box 23, Folder 20 | "The isotopic composition of hydrogen and carbon in meteorites," Max Wolfsberg Conference (See also: Series 7, Photos: groups) 1993 Jul 15 |
| Box 23, Folder 21 | Jim Arnold's Fest, Scripps Institution of Oceanography 1993 Jul 26 |
| Box 23, Folder 22 | "The D/H ratio of hydrogen in plants," GSA annual meeting, Boston 1993 Oct 25-28 |
| Box 23, Folder 23 | Global Energy and Water Cycle Experiment (GEWEX) Panel 1993-1998 |
| Box 23, Folder 24 | "Isotopic climatic temperature records," Gordon Research Conference on Isotopes in Chemistry 1994 Mar |
| Box 23, Folder 25 | "The climatic temperature records in the D/H ratio of cellulose extracted from tree rings," 8 th International Conference on Geochronology, Berkeley 1994 Jun |
| Box 23, Folder 26 | Western Michigan University 1994 Sep 19 |
| Box 23, Folder 27 | "Climatic implications of D/H ratios in trees," Dartmouth College 1994 Oct 5 |
| Box 23, Folder 28 | "The climatic significance of the isotopic composition of hydrogen in tree rings between glacial and modern times," Geochemistry Seminar Series at the Scripps Institution of Oceanography 1995 Nov 17 |
| Box 23, Folder 29 | The Earth System Symposium, Canada 1996 Dec |
| Box 23, Folder 30 | "Climatic temperatures," University of California, Irvine 1997 Feb 12 |
| Box 23, Folder 31 | "Climatic temperatures," University of Pittsburgh 1997 Apr 12 |
| Box 23, Folder 32 | "Climatic significance of the D/H ratio of hydrogen ... " UCLA 1997 May 5 |

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|-------------------|--|
| Box 23, Folder 33 | Special climate symposium honoring Wally Broecker, Lamont-Doherty Earth Observatory 1997 Jun 12-13 |
| Box 23, Folder 34 | "The climatic record in 14C dated wood fragments," American Geophysical Union Conference 1997 Dec |
| Box 23, Folder 35 | Gordon Research Conference on Isotopes in Biological and Chemical Sciences, Ventura 1998 Jan |
| Box 23, Folder 36 | National Academy of Sciences Symposium at the University of California at Irvine 1998 Mar 2 |
| Box 23, Folder 37 | "The role of stable isotope research in a variety of geochemistries," Geological Society of America meeting, Canada 1998 Oct |
| Box 23, Folder 38 | University of California, Los Angeles 1999 Jun 10 |
| Box 23, Folder 39 | "Climatic significance of the isotopic composition of hydrogen in plants," International conference on Stable Isotopes and Isotope Effects, France (See also: Series 7, Photos: group) 1999 Jun 21 |
| Box 23, Folder 40 | Miscellaneous talk outlines undated |

Series 5. Research Files

Subseries 1. Grants Proposals

| | |
|------------------|--|
| | <i>Atomic Energy Commission (AEC)</i> |
| Box 24, Folder 1 | AEC: "Study of fundamental geochemistry of critical natural material" (1951-1970), Proposals 1963-1965 |
| Box 24, Folder 2 | AEC: "Study of fundamental geochemistry of critical natural material" (1951-1970), Progress reports 1955-1967 |
| | <i>Department of Energy (DOE)</i> |
| Box 24, Folder 3 | DOE: "Infrared spectroscopy and hydrogen isotope geochemistry ..." 1985-2002 |
| | <i>National Aeronautics and Space Administration (NASA)</i> |
| Box 24, Folder 4 | National Aeronautics and Space Administration (NASA) "Stable isotope abundance ... of lunar materials" 1965-1969 |
| Box 24, Folder 5 | NASA: "Application of the stable isotope measurements to the study of the origin and history of meteorites", Proposals 1986-1993 |
| Box 24, Folder 6 | NASA: "Application of the stable isotope measurements to the study of the origin and history of meteorites", Proposals 1993-1995 |
| Box 24, Folder 7 | NASA: "Application of the stable isotope measurements to the study of the origin and history of meteorites", Proposals 1995-1997 |
| Box 25, Folder 1 | NASA: "Application of the stable isotope measurements to the study of the origin and history of meteorites", Proposals 1997-2000 |
| Box 25, Folder 2 | NASA: "Application of the stable isotope measurements to the study of the origin and history of meteorites", Progress reports 1994-1995, 1997 |
| Box 25, Folder 3 | NASA: "Application of the stable isotope measurements to the study of the origin and history of meteorites", Related correspondence 1983-1995 |
| Box 25, Folder 4 | NASA: "Application of the stable isotope measurements to the study of the origin and history of meteorites", Related correspondence 1996-2000 |
| Box 25, Folder 5 | NASA: "The analysis of hydrogen, oxygen and carbon isotopic compositions of Martian and other meteorites" 1999-2000 |
| | <i>National Institute for Global Environmental Change (NIGEC)</i> |
| Box 25, Folder 6 | NIGEC: "The climatic significance of the isotopic composition of oxygen, carbon and hydrogen ..." 1995-1999 |
| | <i>National Oceanic and Atmospheric Administration (NOAA)</i> |
| Box 25, Folder 7 | NOAA: "The utilization of isotopic compositions of hydrogen and carbon in modern ancient trees ..." 1998-1999 |
| | <i>Office of Naval Research (ONR)</i> |
| Box 25, Folder 8 | ONR: "A study of oxygen-isotope ratios in natural waters" 1954-1964 |
| | <i>National Science Foundation (NSF)</i> |
| Box 26, Folder 1 | National Science Foundation (NSF), "The biological fractionation of carbon and hydrogen stable isotopes" 1962-1970 |

| | |
|-------------------|---|
| Box 26, Folder 2 | NSF: "Oxygen, hydrogen isotope studies of coexisting minerals in silicate rocks" 1963-1971 |
| Box 26, Folder 3 | NSF: "Undergraduate research participation program" 1965-1969 |
| Box 26, Folder 4 | NSF: "Oxygen and hydrogen isotope analyses of deep hole cores, Byrd Station, Antarctica" 1968-1969 |
| Box 26, Folder 5 | NSF: "Oxygen, hydrogen, carbon, silicon and nitrogen isotope studies of the natural occurring materials" 1985-1986 |
| Box 26, Folder 6 | NSF: "Experimental investigations of the partitioning of oxygen isotopes ..." 1993-1995 |
| Box 26, Folder 7 | NSF: "The retrieval of the Earth's past climatic ... from trees" 1990-1992 |
| Box 26, Folder 8 | NSF: "Studies of the relationship between the climatic temperature and the D/H ... of the Earth's past climates" 1992 |
| Box 26, Folder 9 | NSF: "Studies of the relationship between the climatic temperature and the D/H ... of the Earth's past climates" 1995 |
| Box 26, Folder 10 | NSF: "Studies of the relationship between the climatic temperature and the D/H ... of the Earth's past climates" 1997 |
| Box 26, Folder 11 | NSF: "Studies of the relationship between the climatic temperature and the D/H ... of the Earth's past climates" 1998 |
| Box 26, Folder 12 | NSF: "Application of stable hydrogen and carbon isotopes in trees ..." 2000 <i>United States Public Health Service (USPHS)</i> |
| Box 26, Folder 13 | United States Public Health Service (USPHS): "Glucose dynamics and energy expenditure in man" 1987-1988 |
| Box 26, Folder 14 | USPHS: "The analysis of ¹³CO₂ in the exhaled gas ... in the isotopic ratio mass spectrometry laboratory" 1987-1988 |
| Box 26, Folder 15 | USPHS: "Mechanism of CO₂ isotopic fraction respiration" 1989-1990 |

Subseries 2. Research Materials

Tree-Ring Research

| | |
|-------------------|--|
| Box 27, Folder 1 | Tree-ring sample log book 1974-1977 |
| Box 27, Folder 2 | Tree samples location indexes 1974-1977 |
| Box 27, Folder 3 | Indexes to tree-ring catalogues 1977 |
| Box 27, Folder 4 | Indexes to combustion books and nitration books 1974-1977 |
| Box 27, Folder 5 | Index to cellulose samples 1974-1977 |
| Box 27, Folder 6 | Laboratory standards and procedures 1977-1993 |
| Box 27, Folder 7 | Johnson's laboratory: combustions notes 1976 |
| Box 27, Folder 8 | Johnson's laboratory: nitration notes 1976-1977 |
| Box 27, Folder 9 | Leila Zeiri's laboratory notes 1982 |
| Box 27, Folder 10 | Susan Kurisu's laboratory data and notes 1979 |
| Box 28, Folder 1 | Tree sample requests, correspondence 1973-1979 |
| Box 28, Folder 2 | Tree sample requests, correspondence 1980-1985, 1989 |
| Box 28, Folder 3 | Tree sample requests, correspondence 1990-1997 |
| Box 28, Folder 4 | Tree samples data analyses, Carol Kendall: BrPn B 1520-1974 A.D. 1985 |
| Box 28, Folder 5 | Tree samples data analyses, Carol Kendall: ORE-1 1770-1970 A.D. 1985 |
| Box 28, Folder 6 | Tree samples data analyses, Carol Kendall: RED-2 1800-1975 A.D. 1985 |
| Box 28, Folder 7 | Tree samples data analyses, Carol Kendall: UCI-1 1810-1970 A.D. 1985 |
| Box 28, Folder 8 | Tree samples data analyses, Laura J. Randolph: BrPn A and B 967-1974 A.D. ca. 1980s |
| Box 28, Folder 9 | Tree samples data analyses, Laura J. Randolph: BRC 3200-3840 B.C. ca. 1980s |
| Box 28, Folder 10 | Tree samples data analyses, Laura J. Randolph: ORE-1 1770-1970 A.D. ca. 1980s |
| Box 28, Folder 11 | Tree samples data analyses, Laura J. Randolph: UAZ-2 1700-1864 A.D. ca. 1980s |
| Box 28, Folder 12 | Tree samples data analyses, Laura J. Randolph: UCI-1 1805-1970 A.D. ca. 1980s |
| Box 28, Folder 13 | Tree samples data analyses, Clayton J. Yapp: AW-BO-1 1850-1975 A.D. 1985 |
| Box 28, Folder 14 | Tree samples data analyses, Clayton J. Yapp: BCT-12 1895-1970 A.D. 1985 |
| Box 28, Folder 15 | Tree samples data analyses, Clayton J. Yapp: Col-DF-1 (a) 1815-1975 A.D. 1985 |
| Box 28, Folder 16 | Tree samples data analyses, Clayton J. Yapp: Col-DF-1 (b) 1865-1975 A.D. 1985 |
| Box 28, Folder 17 | Tree samples data analyses, Clayton J. Yapp: FA-AS-1 1950-1977 A.D. 1985 |
| Box 28, Folder 18 | Tree samples data analyses, Clayton J. Yapp: FCA-WS-1 1890-1975 A.D. 1985 |

| | |
|-------------------|--|
| Box 28, Folder 19 | Tree samples data analyses, Clayton J. Yapp: KSA-AS-1 1936-1979 A.D. 1985 |
| Box 28, Folder 20 | Tree samples data analyses, Clayton J. Yapp: MNY-BO-7 1805-1970 A.D. 1985 |
| Box 28, Folder 21 | Tree samples data analyses, Clayton J. Yapp: MNY-GA-2 1870-1970 A.D. 1985 |
| Box 28, Folder 22 | Tree samples data analyses, Clayton J. Yapp: MNY-RM-5 1870-1970 A.D. 1985 |
| Box 28, Folder 23 | Tree samples data analyses, Clayton J. Yapp: MO-O-2 1925-1978 A.D. 1985 |
| Box 28, Folder 24 | Tree samples data analyses, Clayton J. Yapp: OPW-DF-1 1855-1975 A.D. 1985 |
| Box 28, Folder 25 | Tree samples data analyses, Clayton J. Yapp: RE-CO-2 1875-1970 A.D. 1985 |
| Box 28, Folder 26 | Tree samples data analyses, Clayton J. Yapp: SAS-JP-1 1925-1975 A.D. 1985 |
| Box 28, Folder 27 | Tree samples data analyses, Clayton J. Yapp: SNF-LP-1 1921-1973 A.D. 1985 |
| Box 28, Folder 28 | Tree samples data analyses, Dana B. Truslow: UCI-1 1823-1931 A.D. 1985 |
| Box 28, Folder 29 | Tree samples data analyses, Dana B. Truslow: Sunspots 1749-1976 A.D. 1985 |
| Box 29, Folder 1 | Tree ring results, Caroll Kendall: BrPn B 1978 |
| Box 29, Folder 2 | Tree ring results, Caroll Kendall: ORE-1 1978 |
| Box 29, Folder 3 | Tree ring results, Caroll Kendall: RED-2 1978 |
| Box 29, Folder 4 | Tree ring results, Caroll Kendall: UCI-1 1978 |
| Box 29, Folder 5 | Tree ring results, Laura J. Randolph: BrPn A undated |
| Box 29, Folder 6 | Tree ring results, Laura J. Randolph: BrPn B 1982-1983 |
| Box 29, Folder 7 | Tree ring results, Laura J. Randolph: ORE-1 1978-1979 |
| Box 29, Folder 8 | Tree ring results, Laura J. Randolph: UAZ-2 1981-1982 |
| Box 29, Folder 9 | Tree ring results, Laura J. Randolph: UCI-1 1981 |
| Box 29, Folder 10 | Tree ring results, Crayton J. Yapp: BrPn A undated |
| Box 29, Folder 11 | Tree ring results, Crayton J. Yapp: BrPn B 1977 |
| Box 29, Folder 12 | Tree ring results, Crayton J. Yapp: RED-2 1974 |
| Box 29, Folder 13 | Tree ring results, Dana B. Truslow: ALA-3-A 1984 |
| Box 29, Folder 14 | Tree ring results, Dana B. Truslow: Col-DF-1 1983 |
| Box 29, Folder 15 | Tree ring results, Dana B. Truslow: FCA-WS-1 and sunspots numbers 1983 |
| Box 29, Folder 16 | Tree and wood samples data analysis: North America wood samples from USGS undated |
| Box 29, Folder 17 | Tree and wood samples data analysis: Scots pines samples from Loch Affric, Scotland undated |
| Box 29, Folder 18 | Tree and wood samples data analysis: Douglas fir samples from Oregon 1979 |
| Box 29, Folder 19 | Tree and wood samples data analysis: Douglas fir samples from Radio Ridge, Arizona 1979 |
| Box 29, Folder 20 | Tree and wood samples data analysis: Early and late wood samples from Radio Ridge, Arizona and Monterey Peninsula, California undated |
| Box 29, Folder 21 | Tree and wood samples data analysis: Raw plants samples and cellulose nitrate samples undated |
| Box 29, Folder 22 | Tree and wood samples data analysis: Purified cellulose and cellulose nitrate samples undated |
| Box 29, Folder 23 | Tree and wood samples data analysis: Los Angeles Arboretum plants samples 1981 |
| Box 29, Folder 24 | Tree and wood samples data analysis: Assorted plants samples and cellulose nitrate 1974 |
| Box 29, Folder 25 | Tree and wood samples data analysis: Artificial cellulose samples 1978 |
| Box 30, Folder 1 | Tree and wood samples data analysis: Ancient and recent wood samples compilations undated |
| Box 30, Folder 2 | Tree and wood samples data analysis: Ancient wood samples compilations-graphs undated |
| Box 30, Folder 3 | Tree and wood samples data analysis: The Hebrew University, Israel samples undated |
| Box 30, Folder 4 | Tree and wood samples data analysis: Global Geochemistry Corporation samples 1983-1984 |
| Box 30, Folder 5 | Tree and wood samples data analysis: Scripps Institute of Oceanography samples 1983 |
| Box 30, Folder 6 | Tree and wood samples data analysis: Wood samples combustion 1980-1983 |
| Box 30, Folder 7 | Tree and wood samples data analysis: Incomplete analysis of tree samples 1983 |
| Box 30, Folder 8 | Tree and wood samples data analysis: Miscellaneous samples data sheets 1977 |

| | |
|-------------------|---|
| Box 30, Folder 9 | Snow samples from Byrd Station, Antarctica 1964 |
| Box 30, Folder 10 | Snow samples data analysis 1970 |
| Box 30, Folder 11 | Snow samples graphs undated |
| Box 30, Folder 12 | <i>Antarctic Journal of the U.S.</i>, vol. VI, no. 1 1971 |
| Box 30, Folder 13 | Greenland Ice cores research correspondence 1984-1985 |
| Box 30, Folder 14 | Greenland Ice cores data 1994 |
| Box 30, Folder 15 | South Pole firn data 1958, 1965 |
| | <i>Lunar Samples Research</i> |
| Box 31, Folder 1 | Correspondence 1968-1969, 1971 |
| Box 31, Folder 2 | Samples data 1969, 1976, 1978, 1986 |
| Box 31, Folder 3 | Photos, Surveyor V mission 1967 Sep |
| Box 31, Folder 4 | Photos, Surveyor VI mission 1967 Nov |
| Box 31, Folder 5 | Photos, Surveyor VII mission 1968 Jan |
| | <i>Cherts research</i> |
| Box 31, Folder 6 | Master data tables for cherts samples 1977 |
| Box 31, Folder 7 | Geographical locations of cherts samples 1977 |
| Box 31, Folder 8 | Cherts phosphate data undated |
| Box 31, Folder 9 | Cherts samples, correspondence 1974-1980, 1984-1987, 1989 |
| Box 31, Folder 10 | Cherts samples from Griffith Mine 1977 |
| Box 31, Folder 11 | Cherts amples from China 1988 |
| Box 31, Folder 12 | Cherts calculations 1986 |
| Box 31, Folder 13 | Alfred G. Fischer's draft re cherts research 1995 |
| | <i>Precambrian Paleobiology Research Group</i> |
| Box 31, Folder 14 | Precambrian Paleobiology Research Group 1979-1981 |
| | <i>Respiration Research</i> |
| Box 32, Folder 1 | Participants in respiration experiment, vital statistics 1984 |
| Box 32, Folder 2 | Respiration experiment results, graphs undated |
| Box 32, Folder 3 | Leila Zeiri's respiration research notes 1983 |
| Box 32, Folder 4 | "Oxygen and isotopic compositions of gases respired by humans," drafts 1985-1987 |
| Box 32, Folder 5 | Dan M. Cooper correspondence 1988-1990 |
| Box 32, Folder 6 | Respiration samples 1988-1990 |
| Box 32, Folder 7 | Respiration research progress report 1988-1990 |
| | <i>Diamonds Research</i> |
| Box 32, Folder 8 | Diamonds samples data 1985-1986, 1988-1990 |
| Box 32, Folder 9 | Western Australia diamonds research paper 1990 |
| | <i>El Niño Research</i> |
| Box 32, Folder 10 | El Niño research correspondence 1998 |
| | <i>Isotope Analyses</i> |
| Box 33, Folder 1 | Juices and honey samples: Food and Drug Administration 1977-1980 |
| Box 33, Folder 2 | Juices and honey samples: Cole's Pure Honey Company 1978, 1981 |
| Box 33, Folder 3 | Juices and honey samples: Honey Bee, Inc. 1978-1981 |
| Box 33, Folder 4 | Juices and honey samples: Western Commerce Corporation 1978-1986 |
| Box 33, Folder 5 | Juices and honey samples: American Honey Company 1980, 1982 |
| Box 33, Folder 6 | Juices and honey samples: Miller Honey Company 1980-1981 |
| Box 33, Folder 7 | Juices and honey samples: California Flavor Labs, Inc. 1979 |
| Box 33, Folder 8 | Juices and honey samples: Beech-Nut Foods Corporation 1979-1980 |
| Box 33, Folder 9 | Water samples: Antarctica and Greenland 1953-1957 |
| Box 33, Folder 10 | Water samples: Southern California 1954-1955, 1963-1964 |
| Box 33, Folder 11 | Water samples: Greenland melt 1957-1959 |
| Box 33, Folder 12 | Water samples: State of California, Dept. of Water Resources 1967 |
| Box 33, Folder 13 | Water samples: Jamaica 1967, 1984-1986 |
| Box 33, Folder 14 | Water samples: Willis H. White's samples from Henderson Mine 1973 |
| Box 33, Folder 15 | Water samples: Geoss Company 1978-1979, 1983-1984 |
| Box 33, Folder 16 | Water samples: Paul Knauth's samples from various USA locations 1979 |
| Box 33, Folder 17 | Water samples: ARCO Oil and Gas 1981-1990 |
| Box 33, Folder 18 | Water samples: Meteoric 1981 |
| Box 33, Folder 19 | Water samples: The Riess Institute 1996-1997 |

| | |
|-------------------|--|
| Box 33, Folder 20 | Water samples: John Melvin's samples 1982 |
| Box 33, Folder 21 | Water samples: Ken Nagy's samples 1980 |
| Box 33, Folder 22 | Water sample: John Hall's samples from Arequipa, Peru undated |
| Box 33, Folder 23 | Los Angeles Arboretum undated |
| Box 34, Folder 1 | Miscellaneous samples: Biological 1981 |
| Box 34, Folder 2 | Miscellaneous samples: Blemnites 1964-1965 |
| Box 34, Folder 3 | Miscellaneous samples: Carbon 1980, 1984 |
| Box 34, Folder 4 | Miscellaneous samples: Clays 1957, 1965, 1967 |
| Box 34, Folder 5 | Miscellaneous samples: Coral 1994 |
| Box 34, Folder 6 | Miscellaneous samples: Deep sea drilling 1972, 1982 |
| Box 34, Folder 7 | Miscellaneous samples: Gas 1982 |
| Box 34, Folder 8 | Miscellaneous samples: Glaciers 1960, 1968 |
| Box 34, Folder 9 | Miscellaneous samples: Glass 1981 |
| Box 34, Folder 10 | Miscellaneous samples: Kerogen and humus undated |
| Box 34, Folder 11 | Miscellaneous samples: Meteorite 1986 |
| Box 34, Folder 12 | Miscellaneous samples: Minerals 1972, 1995 |
| Box 34, Folder 13 | Miscellaneous samples: Oil 1979, 1981 |
| Box 34, Folder 14 | Miscellaneous samples: Oxygen isotopes 1960, 1965-1967 |
| Box 34, Folder 15 | Miscellaneous samples: Petroleum 1977 |
| Box 34, Folder 16 | Miscellaneous samples: Plants 1981-1982 |
| Box 34, Folder 17 | Miscellaneous samples: Rocks 1965-1968, 1970, 1974, 1978 |
| Box 34, Folder 18 | Miscellaneous samples: Shells 1955, 1976, 1986 |
| Box 34, Folder 19 | Miscellaneous samples: Tektites 1962 |
| Box 34, Folder 20 | Miscellaneous samples: Tunicates 1956 |
| | <i>Miscellaneous Research Material</i> |
| Box 34, Folder 21 | Annotated map: State of California, O 18/O 16 ratios in ground water 1961 |
| Box 34, Folder 22 | Report status of stable isotope studies 1970 Jun |
| Box 34, Folder 23 | Report status of oxygen isotope studies 1993 Apr |
| Box 34, Folder 24 | Photos: Tree ring research 1948 |
| Box 34, Folder 25 | Photos: Mass spectrometer undated |

Series 6. Technical Files

Subseries 1. Mass Spectrometer Data Books

| | |
|------------------|--|
| Box 35, Folder 1 | CO 2 mass spectrometry, 2190-3678 1955 Jan 24-Aug 9 |
| Box 35, Folder 2 | CO 2 mass spectrometry, 3679-5158 1955 Aug 9-1956 Feb 13 |
| Box 35, Folder 3 | CO 2 mass spectrometry, 5159-6654 1956 Feb 13-Jun 29 |
| Box 35, Folder 4 | CO 2 mass spectrometry, 6655-8134 1956 Jun 29-1957 Mar 12 |
| Box 36, Folder 1 | CO 2 mass spectrometry, 8135-9618 1957 Mar 12-Dec 16 |
| Box 36, Folder 2 | CO 2 mass spectrometry, 10404-11882 1958 May 7-1959 Jan 3 |
| Box 36, Folder 3 | CO 2 mass spectrometry, 11883-13359 1959 Jan 3-Jul 7 |
| Box 36, Folder 4 | CO 2 mass spectrometry, 13360-14856 1959 Jul 7- 1960 Feb 4 |
| Box 37, Folder 1 | CO 2 mass spectrometry, 14857-16348 1960 Feb 4-Nov 3 |
| Box 37, Folder 2 | CO 2 mass spectrometry, 16349-17838 1960 Nov 3-1961 Jun 27 |
| Box 37, Folder 3 | CO 2 mass spectrometry, 17839-19321 1961 Jun 27-1962 Mar 26 |
| Box 37, Folder 4 | CO 2 mass spectrometry, 19322-20817 1962 Mar 26-1963 Feb 19 |
| Box 38, Folder 1 | CO 2 mass spectrometry, 20818-22306 1963 Feb 19-Sep 17 |
| Box 38, Folder 2 | CO 2 mass spectrometry, 22307-23677 1963 Sep 17-1964 Apr 17 |
| Box 38, Folder 3 | CO 2 mass spectrometry, 23678-24883 1964 Apr 17-Sep 22 |
| Box 38, Folder 4 | CO 2 mass spectrometry, 2[4]884-26074 1964 Sep 22-1965 Mar 16 |
| Box 39, Folder 1 | CO 2 mass spectrometry, 26075-27267 1965 Mar 16-Sep 7 |
| Box 39, Folder 2 | CO 2 mass spectrometry, 27268-28459 1965 Sep 7-1966 Mar 10 |
| Box 39, Folder 3 | CO 2 mass spectrometry, 28460-29612 1966 Mar 10-Jul 16 |
| Box 39, Folder 4 | CO 2 mass spectrometry, 29613-30800 1966 Jul 18-Nov 7 |
| Box 40, Folder 1 | CO 2 mass spectrometry, 30801-31995 1966 Nov 7-1967 Jun 1 |
| Box 40, Folder 2 | CO 2 mass spectrometry, 31996-33191 1967 Jun 1-Nov 21 |
| Box 40, Folder 3 | CO 2 mass spectrometry, 33192-34388 1967 Nov 21-1968 Apr 5 |

| | |
|------------------|---|
| Box 40, Folder 4 | CO 2 mass spectrometry, 34389-35581 1968 Apr 5-Nov 13 |
| Box 41, Folder 1 | CO 2 mass spectrometry, 35582-36777 1958 Nov 18-1959 Jun 9 |
| Box 41, Folder 2 | CO 2 mass spectrometry, 36778-37970 1969 Jun 9-Dec 31 |
| Box 41, Folder 3 | CO 2 mass spectrometry, 37971-39156 1969 Jan 5-May 13 |
| Box 41, Folder 4 | CO 2 mass spectrometry, 39157-40345 1970 May 14-Dec 15 |
| Box 42, Folder 1 | CO 2 mass spectrometry, 40346-41529 1970 Dec 16-1971 Oct 4 |
| Box 42, Folder 2 | CO 2 mass spectrometry, 41530-42705 1971 Oct 4- 1972 Apr 12 |
| Box 42, Folder 3 | CO 2 mass spectrometry, 42706-43903 1972 Apr 12-Nov 14 |
| Box 42, Folder 4 | CO 2 mass spectrometry, 43904-45074 1972 Nov 15-1973 Apr 14 |
| Box 43, Folder 1 | CO 2 mass spectrometry, 45075-46267 1973 Apr 4-Aug 2 |
| Box 43, Folder 2 | CO 2 mass spectrometry, 46268-47460 1973 Aug 2-1974 Jan 25 |
| Box 43, Folder 3 | CO 2 mass spectrometry, 47461-48658 1974 Jan 25-May 14 |
| Box 43, Folder 4 | CO 2 mass spectrometry, 48659-49826 1974 May 14-Aug 20 |
| Box 44, Folder 1 | CO 2 mass spectrometry, 49827-51020 1974 Aug 20-Nov 27 |
| Box 44, Folder 2 | CO 2 mass spectrometry, 51021-52218 1974 Nov 27-1975 Mar 13 |
| Box 44, Folder 3 | CO 2 mass spectrometry, 52219-53415 1975 Mar 13-Aug 6 |
| Box 44, Folder 4 | CO 2 mass spectrometry, 53416-54610 1975 Aug 6-1976 Jan 23 |
| Box 45, Folder 1 | CO 2 mass spectrometry, 54611-55807 1976 Jan 26-Jul 26 |
| Box 45, Folder 2 | CO 2 mass spectrometry, 55808-57014 1976 Jul 26-1977 Feb 14 |
| Box 45, Folder 3 | CO 2 mass spectrometry, 57015-58211 1977 Feb 14-Aug 24 |
| Box 45, Folder 4 | CO 2 mass spectrometry, 58212-59408 1977 Aug 24-1978 Jan 27 |
| Box 46, Folder 1 | CO 2 mass spectrometry, 59409-60603 1978 Jan 27-May 17 |
| Box 46, Folder 2 | CO 2 mass spectrometry, 60604-61798 1978 May 17-Aug 31 |
| Box 46, Folder 3 | CO 2 mass spectrometry, 61799-62985 1978 Aug 31-1979 Jan 16 |
| Box 46, Folder 4 | CO 2 mass spectrometry, 62986-64180 1979 Jan 16-May 3 |
| Box 47, Folder 1 | CO 2 mass spectrometry, 64185-65338 1979 May 3-Sep 27 |
| Box 47, Folder 2 | CO 2 mass spectrometry, 65539-66535 1979 Sep 27-1980 Feb 22 |
| Box 47, Folder 3 | CO 2 mass spectrometry, 66536-67716 1980 Feb 22-Jun 11 |
| Box 47, Folder 4 | CO 2 mass spectrometry, 67717-68894 1980 Jun 11-Oct 27 |
| Box 48, Folder 1 | CO 2 mass spectrometry, 68895-70079 1980 Oct 27-1981 Apr 6 |
| Box 48, Folder 2 | CO 2 mass spectrometry, 70080-71278 1981 Apr 6-Sep 11 |
| Box 48, Folder 3 | CO 2 mass spectrometry, 71279-72456 1981 Sep 11-1982 Feb 1 |
| Box 48, Folder 4 | CO 2 mass spectrometry, 72457-73651 1982 Feb 1-Jun 11 |
| Box 49, Folder 1 | CO 2 mass spectrometry, 73652-74847 1982 Jun 11-1983 Mar 7 |
| Box 49, Folder 2 | CO 2 mass spectrometry, 74848-76401 1983 Mar 7-Jul 22 |
| Box 49, Folder 3 | CO 2 mass spectrometry, 76042-77161 1983 Jul 25-1984 Feb 2 |
| Box 49, Folder 4 | CO 2 mass spectrometry, 77162-78367 1984 Feb 3-Jun 4 |
| Box 50, Folder 1 | CO 2 mass spectrometry, 78368-79553 1984 Jun 5-Oct 29 |
| Box 50, Folder 2 | CO 2 mass spectrometry, 79554-80747 1984 Oct 30-1985 Mar 13 |
| Box 50, Folder 3 | CO 2 mass spectrometry, 80748-81937 1985 Mar 13-Aug 5 |
| Box 50, Folder 4 | CO 2 mass spectrometry, 81938-83132 1985 Aug 5-1986 Jan 24 |
| Box 51, Folder 1 | CO 2 mass spectrometry, 83133-84339 1986 Jan 24-Jun 24 |
| Box 51, Folder 2 | CO 2 mass spectrometry, 84349-85544 1986 Jun 24-Nov 14 |
| Box 51, Folder 3 | CO 2 mass spectrometry, 85545-86742 1986 Nov 14-1987 May 4 |
| Box 51, Folder 4 | CO 2 mass spectrometry, 86748-87942 1987 May 4-Nov 12 |
| Box 52, Folder 1 | CO 2 mass spectrometry, 87943-89141 1987 Nov 12-1988 Apr 27 |
| Box 52, Folder 2 | CO 2 mass spectrometry, 89142-90358 1988 Apr 27-Nov 7 |
| Box 52, Folder 3 | CO 2 mass spectrometry, 90359-91548 1988 Nov 7-1989 May 4 |
| Box 52, Folder 4 | CO 2 mass spectrometry, 91549-92757 1989 May 4-Oct 6 |
| Box 53, Folder 1 | CO 2 mass spectrometry, 92758-93956 1989 Oct 6-1990 Mar 22 |
| Box 53, Folder 2 | CO 2 mass spectrometry, 93957-95170 1990 Mar 22-Aug 30 |
| Box 53, Folder 3 | CO 2 mass spectrometry, 95171-96254 1990 Aug 30-1991 May 26 |
| Box 53, Folder 4 | CO 2 mass spectrometry, 196255-197458 1991 May 26-1992 Jul 23 |
| Box 54, Folder 1 | CO 2 mass spectrometry, 197459-198653 1992 Jul 23-1995 Jul 25 |
| Box 54, Folder 2 | CO 2 mass spectrometry, 198654-198869 1995 Jul 25-1996 Nov 27 |
| Box 54, Folder 3 | CO 2 mass spectrometry, 23828-25054 1987 Sep 10-1989 Jul 28 |
| Box 55, Folder 1 | Hydrogen mass spectrometry, 382-1212 1963 Mar 12-1965 Apr 28 |
| Box 55, Folder 2 | Hydrogen mass spectrometry, 1213-2136 1965 May 4-1966 Apr 21 |

| | |
|------------------|--|
| Box 55, Folder 3 | Hydrogen mass spectrometry, 2137-3032 1966 Apr 21-Dec 15 |
| Box 55, Folder 4 | Hydrogen mass spectrometry, 3034-3919 1966 Dec 20-1967 Aug 15 |
| Box 56, Folder 1 | Hydrogen mass spectrometry, 3920-4802 1967 Aug 15-1968 Aug 14 |
| Box 56, Folder 2 | Hydrogen mass spectrometry, 4803-5694 1968 Aug 14-1969 Apr 17 |
| Box 56, Folder 3 | Hydrogen mass spectrometry, 5695-6582 1969 Apr 17-Oct 8 |
| Box 56, Folder 4 | Hydrogen mass spectrometry, 6583-7478 1969 Oct 8-1970 Jul 30 |
| Box 56, Folder 5 | Hydrogen mass spectrometry, 7479-7932 1970 Jul 30-1971 Jan 12 |
| Box 57, Folder 1 | Hydrogen mass spectrometry, 7933-8384 1971 Jan 15-Sep 21 |
| Box 57, Folder 2 | Hydrogen mass spectrometry, 8385-9281 1971 Sep 22-1973 Jul 25 |
| Box 57, Folder 3 | Hydrogen mass spectrometry, 10188-11080 1974 Jun 12-1975 Mar 27 |
| Box 57, Folder 4 | Hydrogen mass spectrometry, 11081-11980 1975 Mar 28-1976 Jan 14 |
| Box 57, Folder 5 | Hydrogen mass spectrometry, 11981-12957 1976 Jan 14-Dec 30 |
| Box 58, Folder 1 | Hydrogen mass spectrometry, 12958-14144 1976 Dec 30-1978 May 20 |
| Box 58, Folder 2 | Hydrogen mass spectrometry, 14145-14741 1978 May 22-Sep 21 |
| Box 58, Folder 3 | Hydrogen mass spectrometry, 14742-15937 1978 Sep 21-1979 Jul 10 |
| Box 58, Folder 4 | Hydrogen mass spectrometry, 15938-18030 1979 Jul 10-1980 Mar 19 |
| Box 58, Folder 5 | Hydrogen mass spectrometry, 18030-19218 1980 Mar 19-1981 Oct 8 |
| Box 59, Folder 1 | Hydrogen mass spectrometry, 19219-20391 1981 Oct 8-1983 Jan 25 |
| Box 59, Folder 2 | Hydrogen mass spectrometry, 20392-21572 1983 Jan 26-Oct 19 |
| Box 59, Folder 3 | Hydrogen mass spectrometry, 21573-22645 1983 Oct 26-1985 Jan 14 |
| Box 59, Folder 4 | Hydrogen mass spectrometry, 22646-23827 1985 Jan 14-1987 Sep 10 |
| Box 60, Folder 1 | Hydrogen mass spectrometry, 25055-26234 1979 Jul 31-1992 Jun 15 |
| Box 60, Folder 2 | Hydrogen mass spectrometry, 26235-28349 1992 Jun 23-1994 Aug 22 |
| Box 60, Folder 3 | Hydrogen mass spectrometry, 28350-29509 1994 Aug 23-1998 May 24 |
| Box 60, Folder 4 | Miscellaneous plant and water samples data book undated |

Subseries 2. Laboratory Notebooks

| | |
|------------------|---|
| Box 61, Folder 1 | Spectrometer analyses: Co 2 mass spectrometer 1954 Feb 25-Sep 7 |
| Box 61, Folder 2 | Spectrometer analyses: Co 2 mass spectrometer 1954 Feb 25-May 25 |
| Box 61, Folder 3 | Spectrometer analyses: Co 2 mass spectrometer 1954 May 25-Aug 26 |
| Box 61, Folder 4 | Spectrometer analyses: Co 2 mass spectrometer 1954 Aug 27-1955 Jan 20 |
| Box 61, Folder 5 | Spectrometer analyses: Co 2 mass spectrometer 1957 Dec 12-1958 May 7 |
| Box 61, Folder 6 | Spectrometer analyses: Co 2 mass spectrometer 1966 Aug 10- 1968 Aug 20 |
| Box 61, Folder 7 | Spectrometer analyses: H 2 mass spectrometer 1961 Nov 16-1963 Mar 10 |
| Box 62, Folder 1 | Blue mass spectrometer: Nitrogen measurements 1974 Dec 13-1975 Apr 8 |
| Box 62, Folder 2 | Blue mass spectrometer: Oxygen measurements 1975 Apr 14-1976 Dec 10 |
| Box 62, Folder 3 | Blue mass spectrometer: Oxygen measurements 1976 Dec 10-1977 Jun 22 |
| Box 62, Folder 4 | Blue mass spectrometer: Oxygen measurements 1977 Jul 5-1978 Jun 15 |
| Box 62, Folder 5 | Blue mass spectrometer: Oxygen measurements 1978 Jun 15-1979 Mar 29 |
| Box 62, Folder 6 | Blue mass spectrometer: Oxygen measurements 1979 Apr 20-1980 Sep 26 |
| Box 62, Folder 7 | Blue mass spectrometer: Oxygen measurements 1980 Sep 26-1986 Nov 18 |
| Box 63, Folder 1 | Blue mass spectrometer: Sample log book 1973 Apr 26-1975 Nov 14 |
| Box 63, Folder 2 | Blue mass spectrometer: Sample log book 1975 Nov 17-1978 Feb 22 |
| Box 63, Folder 3 | Blue mass spectrometer: Sample log book 1978 Feb 22-1979 Sep 28 |
| Box 63, Folder 4 | Blue mass spectrometer: Sample log book 1979 Sep 28-1981 Oct 15 |
| Box 63, Folder 5 | Blue mass spectrometer: Sample log book 1981 Oct 15-1984 Apr 11 |
| Box 63, Folder 6 | Blue mass spectrometer: Sample log book 1984 Apr 11-1986 May 6 |
| Box 63, Folder 7 | Blue mass spectrometer: Sample log book 1986 May 6-1988 Jul 15 |
| Box 63, Folder 8 | Blue mass spectrometer: Sample log book 1988 Jul 18-1990 Jun 27 |
| Box 63, Folder 9 | Blue mass spectrometer: Sample log book 1990 Jun 28-1994 Mar 30 |
| Box 64, Folder 1 | Cellulose nitration: Notebook I 1971 Nov 30-1974 Jul 25 |
| Box 64, Folder 2 | Cellulose nitration: Notebook II 1974 Aug 12-1975 Nov 3 |
| Box 64, Folder 3 | Cellulose nitration: Notebook III 1975 Nov 6-1977 Aug 2 |
| Box 64, Folder 4 | Cellulose nitration: Notebook IV 1977 Aug 2-1978 Jun 15 |
| Box 64, Folder 5 | Cellulose nitration: Notebook V 1978 Jun 8-1978 Sep 18 |
| Box 64, Folder 6 | Cellulose nitration: Notebook VI 1978 Oct 2-1979 Feb 5 |
| Box 64, Folder 7 | Cellulose nitration: Notebook VII 1979 Mar 5-1979 Oct 25 |

| | |
|------------------|--|
| Box 64, Folder 8 | Cellulose nitration: Notebook VIII 1979 Oct 4-1980 Apr 21 |
| Box 65, Folder 1 | Cellulose nitration: Notebook IX 1980 Apr 16-1980 Aug 25 |
| Box 65, Folder 2 | Cellulose nitration: Notebook X 1980 Aug 12-1981 Sep 30 |
| Box 65, Folder 3 | Cellulose nitration: Notebook XI 1981 Jun 23-1982 May 12 |
| Box 65, Folder 4 | Cellulose nitration: Notebook XII 1982 May 12-1983 Apr 8 |
| Box 65, Folder 5 | Cellulose nitration: Notebook XIII 1983 Apr 5-1983 Oct 21 |
| Box 65, Folder 6 | Cellulose nitration: Notebook XIV 1983 Oct 21-1991 Nov 23 |
| Box 65, Folder 7 | Cellulose nitration: Notebook XV 1991 Feb 4-1993 Mar 1 |
| Box 65, Folder 8 | Cellulose nitration: Notebook XVI 1991 Nov 24-1993 Jul 31 |
| Box 66, Folder 1 | HD machine 1961 Nov 20-1991 Jan 29 |
| Box 66, Folder 2 | HD machine log book 1964 Aug 5-1974 Jul 30 |
| Box 66, Folder 3 | Carbon and hydrogen isotopes 1962 Feb 5-1962 May 17 |
| Box 66, Folder 4 | Ca isotopes 1963 Jun 6-1965 Aug 26 |
| Box 66, Folder 5 | Meteorites undated |
| Box 66, Folder 6 | Meteorites crater samples 1969 Jun 12-1972 Feb 28 |
| Box 66, Folder 7 | Silicates undated |
| Box 66, Folder 8 | Carbonates V 1969 Jul 1-1985 Apr 17 |
| Box 66, Folder 9 | EF-3732 1981 Nov 11-1983 Jan 5 |
| Box 67, Folder 1 | Silicon measurements 1 1969 Aug 22-1971 Feb 18 |
| Box 67, Folder 2 | Silicon measurements 2 1971 Mar 1-1973 Jan 17 |
| Box 67, Folder 3 | Silicon measurements 3 1973 Jan 17-1976 Jul 30 |
| Box 67, Folder 4 | Silicon measurements 4 1976 Aug 2-1977 Feb 8 |
| Box 67, Folder 5 | Silicon measurements 5 1977 Feb 8-1977 Dec 15 |
| Box 67, Folder 6 | Silicon measurements 6 1978 Jan 3-1979 Apr 4 |
| Box 67, Folder 7 | Silicon measurements 7 1979 Apr 4-1979 Nov 28 |
| Box 67, Folder 8 | Silicon measurements 8 1979 Nov 28-1980 Jul 15 |
| Box 67, Folder 9 | Silicon measurements 9 1980 Jul 15-1981 Jan 7 |
| Box 68, Folder 1 | Wood δO 18, Notebook 1 1976 Aug 17-1977 Apr 24 |
| Box 68, Folder 2 | Wood δO 18, Notebook 2 1977 May 25-1978 Mar 21 |
| Box 68, Folder 3 | Wood δO 18, Notebook 3 1978 Apr 12-1978 Jul 17 |
| Box 68, Folder 4 | Wood δO 18, Notebook 4 1978 Jul 18-1978 Oct 26 |
| Box 68, Folder 5 | Wood δO 18, Notebook 5 1978 Oct 27-1979 Jan 12 |
| Box 68, Folder 6 | Wood δO 18, Notebook 6 1979 Jan 15-Apr 4 1979 |
| Box 68, Folder 7 | Wood δO 18, Notebook 7 1979 Apr 4-1979 Oct 10 |
| Box 68, Folder 8 | Wood δO 18, Notebook 8 1979 Oct 10-1980 Mar 10 |
| Box 69, Folder 1 | Wood δO 18, Notebook 9 1980 Mar 10-1980 Jul 2 |
| Box 69, Folder 2 | Wood δO 18, Notebook 10 1980 Jul 2-1980 Nov 11 |
| Box 69, Folder 3 | Wood δO 18, Notebook 11 1980 Nov 12-1981 Mar 3 |
| Box 69, Folder 4 | Wood δO 18, Notebook 12 1981 Mar 4-1984 Apr 5 |
| Box 69, Folder 5 | Wood δO 18, Notebook 13 1984 Apr 6-1985 Jul 23 |
| Box 69, Folder 6 | Spectrometer standards 1953-1960 |
| Box 69, Folder 7 | Spectrometer standards 1964-1970 |
| Box 69, Folder 8 | Spectrometer standards 1971-1980 |
| Box 69, Folder 9 | Spectrometer standards 1981-1992 |
| Box 70, Folder 1 | Procedures and events 1976 |
| Box 70, Folder 2 | Weights book 1979 Mar 23-1982 Oct 13 |
| Box 70, Folder 3 | Weights book 1982 Oct 19-1984 Feb 14 |
| Box 70, Folder 4 | Leaf evaporation 1974 Aug 30-1981 Sep 28 |
| Box 70, Folder 5 | Chert line - east side 1989 Mar 17-1990 Aug 2 |
| Box 70, Folder 6 | Phoenix book #2 1987 Sep 4-1989 Jun 20 |
| Box 70, Folder 7 | Water evaporation fractionation 1981 |
| Box 70, Folder 8 | H 2O service work book IV 1985 Nov 8-1993 Jan 19 |
| Box 70, Folder 9 | Water catalogue IV 1963 |
| Box 71, Folder 1 | Bristle cone pine 1991 |
| Box 71, Folder 2 | Cellulose samples undated |
| Box 71, Folder 3 | Mid Atlantic ridge samples undated |
| Box 71, Folder 4 | Untitled logbook 1958 |
| Box 71, Folder 5 | Untitled notebook 1983 |

| | |
|-------------------|---|
| Box 71, Folder 6 | Untitled logbook 1991-1992 <i>Student Notebooks</i> |
| Box 71, Folder 7 | Abrams, M.: Respiratory studies 1971 |
| Box 71, Folder 8 | Bertschinger, E.: Fourier analysis of [D/H] from tree ring samples 1979 |
| Box 72, Folder 1 | Dent, Eleanor B.: Logbooks 1982 Aug 10-1983 Aug 4 |
| Box 72, Folder 2 | Dent, Eleanor B.: Logbooks 1983 Aug 5-1985 Apr 15 |
| Box 72, Folder 3 | Dent, Eleanor B.: Logbooks 1985 Apr 16-1986 Sep 19 |
| Box 72, Folder 4 | Dent, Eleanor B.: Logbooks 1986 Sep 22-1988 Mar 31 |
| Box 72, Folder 5 | Dent, Eleanor B.: Logbooks 1988 Apr 1-1989 May 2 |
| Box 72, Folder 6 | Dent, Eleanor B.: Logbooks 1989 May 2-1990 Apr 9 |
| Box 72, Folder 7 | Dent, Eleanor B.: Logbooks 1990 Apr 10-1991 Nov 12 |
| Box 72, Folder 8 | Dent, Eleanor B.: Logbooks 1991 Nov 13-1993 Jul 30 |
| Box 73, Folder 1 | Hall, John H.: Laboratory procedures C, H isotopes 1969 Apr 16-Oct 28 |
| Box 73, Folder 2 | Hall, John H.: Water-CO 2 1969 Jun 6-1971 Feb 18 |
| Box 73, Folder 3 | Hall, John H.: Tree ring exchange 1969 Sep 5-1971 May 28 |
| Box 73, Folder 4 | Hall, John H.: Cellulose and tree ring master book 1970 Oct |
| Box 73, Folder 5 | Hall, John H.: Tree ring combustions 1970 Oct 3-1971 Apr 11 |
| Box 73, Folder 6 | Hall, John H.: Tree ring combustions 1971 Apr 11-Jun 8 |
| Box 73, Folder 7 | Hall, John H.: Sample preparation 1970 Apr 9-Apr 21 |
| Box 73, Folder 8 | Hall, John H.: Shell protein studies on pyrolysis line 1970 Mar 1-May 10 |
| Box 73, Folder 9 | Hall, John H.: Nitration procedures 1971 Feb 17- Apr 13 |
| Box 74, Folder 1 | Hamza, M.: Oxygen of the O H in hydrous silicate minerals 1972 Nov 9 |
| Box 74, Folder 2 | Hist, Bernhard: H/D, C 12/C 13 1963 Feb 16-May 7 |
| Box 74, Folder 3 | Hist, Bernhard: Ca isotope composition 1962 Nov 6-1965 Apr 8 |
| Box 74, Folder 4 | Kolodny, Yehoshua: Carbonates undated |
| Box 74, Folder 5 | Kolodny, Yehoshua: Samples 1973 Aug 29-1974 Sep 23 |
| Box 74, Folder 6 | Kurisu, S: Experiments with regenerated cellulose 1979 Aug 30-Nov 26 |
| Box 75, Folder 1 | Krishnamurthy, R. V.: Tree ring experiments 1984 Nov 9-1985 Jan 5 |
| Box 75, Folder 2 | Krishnamurthy, R. V.: Tree ring experiments probably 1985 |
| Box 75, Folder 3 | Krishnamurthy, R. V.: Tree ring experiments probably 1985 |
| Box 75, Folder 4 | Krishnamurthy, R. V.: ΔC 13 measurements 1987 Jan 29-1989 Nov 30 |
| Box 75, Folder 5 | Krishnamurthy, R. V.: SNO-1 and δC 13 glacial and interglacial samples undated |
| Box 75, Folder 6 | Krishnamurthy, R. V.: TAS-Tasmania samples undated |
| Box 75, Folder 7 | Krishnamurthy, R. V.: JVA-5, RVS-7 samples 1990 Jun 25-1991 May 2 |
| Box 75, Folder 8 | Krishnamurthy, R. V.: Standards for N, C, H, O, etc. 1985 Aug 9-1991 Aug 24 |
| Box 75, Folder 9 | Krishnamurthy, R. V.: [Calibrations] 1984 Sep |
| Box 75, Folder 10 | Krishnamurthy, R. V.: ΔC 18 in organic matter and nitration experiments 1985 Jan 31-1985 Aug 12 |
| Box 76, Folder 1 | Krishnamurthy, R. V.: Meteorites 1986 Apr 18-Nov 13 |
| Box 76, Folder 2 | Krishnamurthy, R. V.: Meteorites 1987 Sep 9-1988 Feb 2 |
| Box 76, Folder 3 | Krishnamurthy, R. V.: Meteorites 1988 Feb 25-1989 Nov 5 |
| Box 76, Folder 4 | Krishnamurthy, R. V.: Meteorites 1989 May 17-1991 Jun 28 |
| Box 76, Folder 5 | Lambert, Steven J.: Active hydrothermal system samples 1973 Jul 17-1975 Jun 2 |
| Box 76, Folder 6 | Lambert, Steven J.: Active hydrothermal system samples 1973 Nov 14-1974 May 2 |
| Box 76, Folder 7 | Lambert, Steven J.: Active hydrothermal system samples 1974 May 29-Sep 21 |
| Box 76, Folder 8 | Lambert, Steven J.: Active hydrothermal system samples 1974 Sep 25-1975 Mar 15 |
| Box 76, Folder 9 | Lambert, Steven J.: Active hydrothermal system samples 1975 Mar 19-1976 May 28 |
| Box 76, Folder 10 | Lambert, Steven J.: Skarns and tactites 1972 Oct 12-1973 Nov 13 |
| Box 76, Folder 11 | Lambert, Steven J.: "The numbers book" 1973 Aug 17-1976 May 28 |
| Box 77, Folder 1 | Matsubayu, Osama: BrF 5 method for water reduction of iron oxide 1977 Sep 21-1978 Mar 14 |
| Box 77, Folder 2 | Matsubayu, Osama: BrF 5 method for water reduction of iron oxide 1978 Mar 15-Sep 29 |
| Box 77, Folder 3 | Matsubayu, Osama: BrF 5 method for water reduction of iron oxide 1978 Oct 2-1979 May 16 |
| Box 77, Folder 4 | Matsubayu, Osama: Fe(OH) 3, Fe(OH) 2 1978 Jun 22- 1978 Oct 18 |

| | |
|-------------------|--|
| Box 77, Folder 5 | Matsubayu, Osama: Sample list undated |
| Box 77, Folder 6 | Ottesen, David: Si Isotope work 1969 Jan 9-1971 Jun 16 |
| Box 77, Folder 7 | Ottesen, David: Si Isotope work 1971 Apr 20-1972 Aug 26 |
| Box 77, Folder 8 | Ottesen, David: Si Isotope work 1971 Sep 26-1972 Feb 18 |
| Box 77, Folder 9 | Ottesen, David: Si Isotope work 1972 Aug 21-Aug 25 |
| Box 78, Folder 1 | Ottesen, David: Reactions of Silanes, D/H isotopes notebook 1971 Oct 13-1972 Mar 27 |
| Box 78, Folder 2 | Ottesen, David: Reactions of Silanes, D/H isotopes notebook 1971 Oct 14-1972 Aug 27 |
| Box 78, Folder 3 | Randolph, Laura J.: Logbook 1979 Nov 7-1981 Jan 23 |
| Box 78, Folder 4 | Ruth, J.: Logbook 1980 Sep 26-1983 Aug 3 |
| Box 78, Folder 5 | Truslon, Danna: Logbook 1982 Dec 7-1984 Jan 27 |
| Box 78, Folder 6 | Way, J.: Cellulose extractions 1976 Oct 10-1977 Jul 10 |
| Box 78, Folder 7 | Yapp, Crayton: Plant catalog 1977 Nov 29-1978 Nov 15 |
| Box 79, Folder 1 | Yapp, Crayton: Nitration I 1978 May 16-Aug 3 |
| Box 79, Folder 2 | Yapp, Crayton: Nitration II 1978 Aug 3-Nov 3 |
| Box 79, Folder 3 | Yapp, Crayton: Nitration III 1978 Oct 25-1979 Feb 21 |
| Box 79, Folder 4 | Yapp, Crayton: Nitration IV 1979 Feb 16-Sep 10 |
| Box 79, Folder 5 | Yapp, Crayton: Nitration V 1979 Sep 9- 1980 Jan 12 |
| Box 79, Folder 6 | Yapp, Crayton: Combustion I 1978 Mar 31-Jul 12 |
| Box 79, Folder 7 | Yapp, Crayton: Combustion II 1978 Jul 13- Aug 25 |
| Box 79, Folder 8 | Yapp, Crayton: Combustion III 1978 Aug 28-1978 Nov 7 |
| Box 79, Folder 9 | Yapp, Crayton: Combustion IV 1978 Nov 8-1979 Jan 17 |
| Box 80, Folder 1 | Yapp, Crayton: Combustion V 1979 Jan 17-May 27 |
| Box 80, Folder 2 | Yapp, Crayton: Combustion VI 1979 May 27-Oct 22 |
| Box 80, Folder 3 | Yapp, Crayton: Combustion VII 1979 Oct 10-Nov 29 |
| Box 80, Folder 4 | Yapp, Crayton: Combustion VIII 1979 Nov 29-1980 Jan 14 |
| Box 80, Folder 5 | Yeh, Hsueh-Wen: PE cherts I 1977 Apr 29-1977 Dec 6 |
| Box 80, Folder 6 | Yeh, Hsueh-Wen: PE cherts II 1977 Dec 7- 1978 Jul 1 |
| Box 81, Folder 1 | Young, Jane C.: Tree ring combustion I 1972 Feb 2-1973 Sep 13 |
| Box 81, Folder 2 | Young, Jane C.: Tree ring combustion II 1973 Sep 17-1974 Jan 10 |
| Box 81, Folder 3 | Young, Jane C.: Tree ring combustion III 1974 Oct 10-May 2 |
| Box 81, Folder 4 | Young, Jane C.: Tree ring combustion IV 1974 May 6-Oct 1 |
| Box 81, Folder 5 | Young, Jane C.: Tree ring combustion V 1974 Oct 3-1975 Mar 18 |
| Box 81, Folder 6 | Young, Jane C.: Tree ring combustion VI 1975 Mar 19-1976 Jan 23 |
| Box 81, Folder 7 | Young, Jane C.: Tree ring combustion VII 1976 Feb 2-1977 Jan 21 |
| Box 81, Folder 8 | Young, Jane C.: Tree ring combustion VIII 1977 Jan 26- Oct 30 |
| Box 81, Folder 9 | Young, Jane C.: Tree ring combustion IX 1977 Nov 4-1978 Mar 15 |
| Box 82, Folder 1 | Young, Jane C.: Tree ring combustion X 1978 Mar 10-Jul 18 |
| Box 82, Folder 2 | Young, Jane C.: Tree ring combustion XI 1978 Jul 18-Oct 12 |
| Box 82, Folder 3 | Young, Jane C.: Tree ring combustion XII 1978 Oct 13-1979 Jan 31 |
| Box 82, Folder 4 | Young, Jane C.: Tree ring combustion XIII 1979 Feb 1-Apr 17 |
| Box 82, Folder 5 | Young, Jane C.: Tree ring combustion XIV 1979 Apr 19-Sep 11 |
| Box 82, Folder 6 | Young, Jane C.: Tree ring combustion XV 1979 Sep 11-1980 Jan 17 |
| Box 82, Folder 7 | Young, Jane C.: Tree ring combustion XVI 1980 Jan 17-May 5 |
| Box 82, Folder 8 | Young, Jane C.: Tree ring combustion XVII 1980 May 5-Jul 18 |
| Box 82, Folder 9 | Young, Jane C.: Tree ring combustion XVIII 1980 Jul 18-Nov 17 |
| Box 82, Folder 10 | Young, Jane C.: Tree ring combustion XIX 1980 Nov 19-1981 Oct 6 |
| Box 83, Folder 1 | Young, Jane C.: Tree ring combustion XX 1981 Oct 7-1982 Apr 16 |
| Box 83, Folder 2 | Young, Jane C.: Tree ring combustion XXI 1982 Apr 16-Jul 30 |
| Box 83, Folder 3 | Young, Jane C.: Tree ring combustion XXII 1982 Jul 30-Dec 15 |
| Box 83, Folder 4 | Young, Jane C.: Tree ring combustion XXIII 1982 Dec 15-1983 May 27 |
| Box 83, Folder 5 | Young, Jane C.: Tree ring combustion XXIV 1983 May 31-1984 Jan 3 |
| Box 83, Folder 6 | Young, Jane C.: Tree ring combustion XXV 1984 Jan 4- Feb 15 |
| Box 83, Folder 7 | Young, Jane C.: Tree ring index undated |
| Box 83, Folder 8 | Young, Jane C.: Arsenic analysis undated |
| Box 83, Folder 9 | Zeiri, Leila: [Respiration studies] 1982 Jul 6-Aug 9 |
| Box 83, Folder 10 | Zeiri, Leila: [Respiration studies] 1982 Nov 15-1983 Apr 26 |

Box 83, Folder 11
Box 83, Folder 12

Zeiri, Leila: [Respiration studies] 1983 Apr 20- Nov 7
Zeiri, Leila: [Respiration studies] 1983 Nov 9-Jul 10
Series 7. **Biographical**

Box 84, Folder 1
Box 84, Folder 2
Box 84, Folder 3
Box 84, Folder 4
Box 84, Folder 5
Box 84, Folder 6
Box 84, Folder 7
Box 84, Folder 8
Box 84, Folder 9
Box 84, Folder 10
Box 84, Folder 11
Box 84, Folder 12
Box 84, Folder 13
Box 84, Folder 14
Box 84, Folder 15
Box 84, Folder 16
Box 84, Folder 17
Box 84, Folder 18
Box 84, Folder 19
Box 84, Folder 20
Box 84, Folder 21

Curriculum vitae 1986, 1997
Publication lists 1942-1999
Biographical sketches 1971-1997
Chemical genealogy 1994
Intellectual genealogy drawing 1992
Research projects undated
Appointment offers 1961, 1982
Awards and honors: Election to the National Academy of Sciences 1977
Awards and honors: V. M. Goldschmidt Medal 1977
Awards and honors: Arthur L. Day Medal 1978
Awards and honors: Honorary degree, University of Manitoba, Canada 1980
Awards and honors: Wollaston Medal 1993
Awards and honors: Harold L. Urey Medal 1995
Awards and honors: Royal Society of Canada Foreign Fellow 1997
Awards and honors: Fellowships correspondence 1977-1997
Awards and honors: Tyler Prize nomination 2001
Five and Ten Investment Club 1973, 1976
Newspaper clippings 1954-1994
Oral history supplement interview transcript 1997
Photos: portraits undated
Photos: Epstein in his laboratory undated

Note

Photos and negatives.

Box 84, Folder 22
Box 84, Folder 23

Photos: groups 1984, 1993, 1995, 1999
University of Manitoba Yearbook 1941

Note

Photocopied pages.

Box 84, Folder 24
Box 84, Folder 25
Box 84, Folder 26

Epstein's festschrift reviews 1987, 1992-1993
Epstein's 70 th Birthday Symposium program 1989 Dec 1-2
Biographical miscellany 1997